



Full&Default Power Mode

GSMB60_Ant.13					GSMB60_Ant.31				
TX Channel		Burst Average Power (dBm)			TX Channel		Burst Average Power (dBm)		
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)		
Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)	Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)
GSMB 1 Tx ant	32.74	32.04	32.88	34.00	23.74	23.04	23.88	25.00	
GSMB 1 Tx ant	32.87	32.08	33.00	34.00	23.87	24.08	24.00	25.00	
GSMB 2 Tx ant	30.38	30.08	30.52	32.00	24.38	24.58	24.82	25.00	
GSMB 3 Tx ant	28.60	28.81	28.75	30.00	24.34	24.55	24.49	25.74	
GSMB 4 Tx ant	27.18	27.29	27.21	28.50	24.18	24.32	24.31	25.50	
EDGE(GSMR) 1 Tx ant	32.70	32.02	32.87	34.00	23.70	23.02	23.87	25.00	
EDGE(GSMR) 2 Tx ant	30.29	30.47	30.41	32.00	24.29	24.47	24.41	25.00	
EDGE(GSMR) 3 Tx ant	28.43	28.60	28.58	30.00	24.17	24.40	24.32	25.74	
EDGE(GSMR) 4 Tx ant	27.04	27.20	27.21	28.50	24.04	24.20	24.21	25.50	
EDGE(GSMR) 1 Tx ant	26.17	26.21	26.26	27.00	23.12	23.27	23.26	25.00	
EDGE(GSMR) 2 Tx ant	24.35	24.54	24.47	26.00	18.05	18.05	18.47	20.00	
EDGE(GSMR) 3 Tx ant	22.48	22.69	22.62	24.00	18.22	18.43	18.36	19.74	
EDGE(GSMR) 4 Tx ant	21.04	21.23	21.16	22.00	18.04	18.23	18.16	19.50	

GSMB60_Ant.13					GSMB60_Ant.31				
TX Channel		Burst Average Power (dBm)			TX Channel		Burst Average Power (dBm)		
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)		
Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)	Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)
GSMB 1 Tx ant	30.02	30.38	30.24	31.00	21.02	21.38	21.24	22.00	
GSMB 1 Tx ant	30.03	30.38	30.25	31.00	21.03	21.38	21.25	22.00	
GSMB 2 Tx ant	27.83	28.19	28.07	29.00	21.83	22.18	22.07	23.00	
GSMB 3 Tx ant	26.00	26.24	26.10	27.00	21.04	21.98	21.84	22.74	
GSMB 4 Tx ant	24.42	24.71	24.62	25.00	21.42	21.77	21.62	22.50	
EDGE(GSMR) 1 Tx ant	28.82	30.29	30.11	31.00	20.82	21.29	21.11	22.00	
EDGE(GSMR) 2 Tx ant	27.75	28.11	27.87	29.00	21.75	22.11	21.87	22.00	
EDGE(GSMR) 3 Tx ant	26.85	28.22	28.07	27.00	21.89	21.89	21.81	22.74	
EDGE(GSMR) 4 Tx ant	24.38	24.73	24.55	25.00	21.38	21.73	21.55	22.50	
EDGE(GSMR) 1 Tx ant	23.53	25.00	24.75	26.00	18.53	18.88	18.75	17.80	
EDGE(GSMR) 2 Tx ant	24.03	24.38	24.27	25.00	18.03	18.38	18.27	19.00	
EDGE(GSMR) 3 Tx ant	22.97	23.21	23.17	23.00	17.71	18.05	17.91	18.74	
EDGE(GSMR) 4 Tx ant	20.48	20.81	20.67	21.00	17.46	17.81	17.67	18.50	

Band					Band				
TX Channel		Burst Average Power (dBm)			TX Channel		Burst Average Power (dBm)		
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)		
Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)	Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)
SCPP Rel 8B	22.73	22.78	22.77	24.00	22.05	22.25	22.23	24.00	
SCPP Rel 8B	RAC 12.20pss	22.69	22.87	22.83	24.00	22.69	22.81	22.23	24.00
SCPP Rel 8B	NRPA Subant-1	21.72	21.78	21.76	23.00	21.70	21.80	21.53	23.00
SCPP Rel 8B	NRPA Subant-2	21.70	21.83	21.80	23.00	21.40	21.60	21.57	23.00
SCPP Rel 8B	NRPA Subant-3	20.69	21.29	21.25	22.00	20.92	21.08	21.05	22.00
SCPP Rel 8B	NRPA Subant-4	21.28	21.28	21.30	22.00	20.89	21.08	21.00	22.00
SCPP Rel 8B	DC-HSPA Subant-1	21.63	21.69	21.68	23.00	21.33	21.50	21.47	23.00
SCPP Rel 8B	DC-HSPA Subant-2	21.68	21.79	21.79	23.00	21.52	21.61	21.52	23.00
SCPP Rel 8B	DC-HSPA Subant-3	20.83	21.25	21.18	22.00	20.82	21.04	20.98	22.00
SCPP Rel 8B	DC-HSPA Subant-4	21.17	21.19	21.29	22.00	20.83	21.08	20.99	22.00
SCPP Rel 8B	NRPA Subant-1	21.72	21.81	21.82	23.00	21.40	21.64	21.56	23.00
SCPP Rel 8B	NRPA Subant-2	19.73	19.79	19.85	21.00	19.41	19.55	19.55	21.00
SCPP Rel 8B	NRPA Subant-3	20.71	20.81	20.88	22.00	20.37	20.68	20.57	22.00
SCPP Rel 8B	NRPA Subant-4	19.70	19.81	19.86	21.00	18.41	18.63	18.56	21.00
SCPP Rel 8B	NRPA Subant-5	21.80	21.80	21.30	23.00	21.50	21.70	21.60	23.00
SCPP Rel 7	NRPA 1 (SDMA) Subant-1	20.24	20.33	20.31	21.00	19.89	20.00	20.07	21.00

Band					Band				
TX Channel		Burst Average Power (dBm)			TX Channel		Burst Average Power (dBm)		
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)		
Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)	Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)
SCPP Rel 8B	RAC 12.20pss	24.04	24.02	24.00	24.00	23.71	23.74	24.07	25.00
SCPP Rel 8B	NRPA Subant-1	24.05	24.05	24.01	23.00	23.87	23.90	23.79	25.00
SCPP Rel 8B	NRPA Subant-2	23.87	23.87	23.81	24.00	23.82	23.87	23.94	24.00
SCPP Rel 8B	NRPA Subant-3	23.87	23.84	23.84	24.00	23.82	23.82	23.80	24.00
SCPP Rel 8B	NRPA Subant-4	22.58	22.58	22.53	23.00	22.51	22.45	22.44	23.00
SCPP Rel 8B	NRPA Subant-5	22.83	22.85	22.82	23.00	22.82	22.49	22.44	23.00
SCPP Rel 8B	DC-HSPA Subant-1	23.83	23.85	23.80	24.00	23.82	23.82	22.88	24.00
SCPP Rel 8B	DC-HSPA Subant-2	23.84	23.84	23.81	24.00	23.88	22.87	22.86	24.00
SCPP Rel 8B	DC-HSPA Subant-3	22.58	22.52	22.43	23.00	22.41	22.45	22.39	23.00
SCPP Rel 8B	DC-HSPA Subant-4	20.98	22.45	22.24	23.00	22.44	22.48	22.37	23.00
SCPP Rel 8B	NRPA Subant-1	22.87	23.04	22.87	24.00	22.86	22.87	22.89	24.00
SCPP Rel 8B	NRPA Subant-2	21.03	21.16	20.83	22.00	20.87	20.84	20.87	22.00
SCPP Rel 8B	NRPA Subant-3	22.80	22.83	21.85	23.00	21.81	21.88	21.81	23.00
SCPP Rel 8B	NRPA Subant-4	20.98	20.99	20.98	22.00	20.88	20.87	20.88	22.00
SCPP Rel 8B	NRPA Subant-5	21.00	21.00	21.00	24.00	21.00	21.00	21.00	24.00
SCPP Rel 7	NRPA 1 (SDMA) Subant-1	21.02	21.05	20.91	22.00	20.91	20.90	20.98	22.00

GSMB60_Ant.31					GSMB60_Ant.13				
TX Channel		Burst Average Power (dBm)			TX Channel		Burst Average Power (dBm)		
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)		
Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)	Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)
GSMB 1 Tx ant	32.19	32.24	32.13	33.80	23.19	23.24	23.13	24.80	
GSMB 1 Tx ant	32.13	32.17	32.17	33.80	23.13	23.13	23.17	24.80	
GSMB 2 Tx ant	29.84	29.80	29.83	31.80	23.84	23.80	23.83	23.83	23.80
GSMB 3 Tx ant	27.87	28.08	28.12	29.80	23.71	23.80	23.86	25.24	
GSMB 4 Tx ant	26.51	26.44	26.60	28.20	23.51	23.44	23.49	25.20	
EDGE(GSMR) 1 Tx ant	32.02	32.08	32.12	33.80	23.02	23.08	23.12	24.50	
EDGE(GSMR) 2 Tx ant	29.59	29.81	29.70	31.80	23.59	23.81	23.70	25.50	
EDGE(GSMR) 3 Tx ant	27.81	27.80	28.05	29.80	23.80	23.87	23.79	25.24	
EDGE(GSMR) 4 Tx ant	26.38	26.52	26.54	28.20	23.38	23.52	23.54	25.20	
EDGE(GSMR) 1 Tx ant	25.81	25.83	25.86	27.50	18.81	18.80	18.88	19.50	
EDGE(GSMR) 2 Tx ant	24.01	24.05	24.03	25.80	18.01	17.95	18.03	19.50	
EDGE(GSMR) 3 Tx ant	21.91	21.89	21.94	23.80	17.85	17.83	17.68	19.24	
EDGE(GSMR) 4 Tx ant	20.57	20.48	20.61	22.00	17.87	17.48	17.61	19.00	

GSMB60_Ant.31					GSMB60_Ant.13				
TX Channel		Burst Average Power (dBm)			TX Channel		Burst Average Power (dBm)		
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)		
Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)	Frequency (MHz)	SSA.2	SSA.4	SSA.8	Limit (dBm)
GSMB 1 Tx ant	29.49	29.83	29.71	31.80	20.49	20.83	20.71	22.00	
GSMB 1 Tx ant	29.54	29.87	29.75	31.80	20.54	20.87	20.75	22.00	
GSMB 2 Tx ant	27.12	27.46	27.14	29.80	21.12	21.46	21.14	23.00	
GSMB 3 Tx ant	25.26	25.57	25.36	27.80	21.80	21.29	21.10	22.74	
GSMB 4 Tx ant	23.83	24.07	23.80	26.80	20.83	21.07	20.82	22.50	
EDGE(GSMR) 1 Tx ant	29.48	29.79	29.88	31.80	20.48	20.79	20.60	22.00	
EDGE(GSMR) 2 Tx ant	27.46	27.46	27.89	29.80	21.29	21.46	21.27	23.00	
EDGE(GSMR) 3 Tx ant	25.17	25.43	25.21	27.80	20.97	21.17	20.85	22.74	
EDGE(GSMR) 4 Tx ant	23.50	24.00	23.84	26.80	20.50	21.00	20.84	22.50	
EDGE(GSMR) 1 Tx ant	25.01	25.08	25.28	26.80	18.01	18.08	18.28	17.80	
EDGE(GSMR) 2 Tx ant	23.47	23.44	23.80	26.80	17.47	17.44	17.60	19.00	
EDGE(GSMR) 3 Tx ant	21.45	21.43	21.87	23.80	17.19	17.17	17.41	18.74	
EDGE(GSMR) 4 Tx ant	19.91	19.85	20.22	21.80	16.91	16.85	17.22	18.50	

Band		WCDMA Rev. 8					WCDMA Rev. 9.1				
Tx Channel		1512	1443	1518	Turn-up	1512	1443	1518	Turn-up		
Rx Channel		1512	1443	1518		1512	1443	1518			
SCPP Rel 8B	HPMA 12.20pss	23.98	23.83	23.58	24.80	22.99	23.02	22.95	24.80		
SCPP Rel 8B	HPMA 12.20pss	23.65	23.66	23.63	24.80	22.66	22.61	22.59	24.80		
SCPP Rel 8B	HPMA Subcarrier 1	22.71	22.67	22.64	23.50	22.31	22.23	22.23	23.50		
SCPP Rel 8B	HPMA Subcarrier 2	22.23	22.14	22.11	23.00	21.88	21.77	21.76	23.00		
SCPP Rel 8B	HPMA Subcarrier 3	21.77	21.68	21.65	22.50	21.64	21.53	21.52	22.50		
SCPP Rel 8B	DC-HPMA Subcarrier 1	22.57	22.48	22.45	23.50	22.18	22.10	22.10	23.50		
SCPP Rel 8B	DC-HPMA Subcarrier 2	22.62	22.60	22.61	23.50	22.20	22.16	22.16	23.50		
SCPP Rel 8B	DC-HPMA Subcarrier 3	22.15	22.06	22.03	23.00	21.72	21.67	21.67	23.00		
SCPP Rel 8B	HPMA Subcarrier 1	22.68	22.61	22.67	23.50	22.34	22.28	22.28	23.50		
SCPP Rel 8B	HPMA Subcarrier 2	22.22	22.12	22.09	23.00	21.83	21.74	21.74	23.00		
SCPP Rel 8B	HPMA Subcarrier 3	21.81	21.65	21.67	22.50	21.30	21.20	21.20	22.50		
SCPP Rel 8B	HPMA Subcarrier 4	20.65	20.49	20.50	21.50	20.27	20.30	20.32	21.50		
SCPP Rel 8B	HPMA Subcarrier 5	20.17	20.01	20.02	21.00	19.82	19.82	19.82	21.00		
SCPP Rel 8B	HPMA (HOGMA) Subcarrier 1	21.15	21.07	21.12	22.00	20.56	20.74	20.76	22.00		



Band 2_Ant 13										
RF [MHz]	Modulation	RB Size	RB Offset	Power Ch./ Freq.	Power Mid Ch./ Freq.	Power Hch./ Freq.	Turn-up time (min)	MPE (dB)		
Channel										Frequency (MHz)
										18700
										18800
										18900
20	QPSK	1	0	22.82	22.78	22.77				
20	QPSK	1	49	22.83	22.88	22.85	24	0		
20	QPSK	1	8	22.82	22.78	22.78				
20	QPSK	50	24	21.89	21.93	21.85				
20	QPSK	50	50	21.83	21.87	21.80	23	1		
20	QPSK	100	0	21.76	21.81	21.79				
20	16QAM	1	0	22.18	22.28	22.27				
20	16QAM	1	49	22.18	22.28	22.27	23	1		
20	16QAM	1	99	22.04	22.10	22.10				
20	16QAM	50	0	20.78	20.82	20.86				
20	16QAM	50	24	20.85	20.81	20.85	22	2		
20	16QAM	100	0	20.87	20.81	20.83				
20	16QAM	1	49	21.24	21.25	21.24	22	2		
20	16QAM	1	99	21.02	21.10	21.10				
20	16QAM	50	0	19.84	19.83	19.84				
20	16QAM	50	24	19.84	19.79	19.84	21	3		
20	16QAM	100	0	19.86	19.79	19.86				
20	256QAM	1	0	17.90	17.90	17.90				
20	256QAM	1	49	18.05	18.10	18.15	19	5		
20	256QAM	1	99	17.93	18.05	18.02				
20	256QAM	50	0	17.87	17.93	17.90				
20	256QAM	50	24	17.77	17.77	17.78	19	5		
20	256QAM	100	0	17.85	17.86	17.85				
20	256QAM	100	0	17.85	17.84	17.87				
Channel										18900
										18950
										19050
15	QPSK	1	0	22.78	22.80	22.73				
15	QPSK	1	37	22.79	22.89	22.73	24	0		
15	QPSK	1	8	22.87	22.73	22.73				
15	QPSK	36	0	21.80	21.79	21.85				
15	QPSK	36	20	21.87	21.89	21.72	23	1		
15	QPSK	36	20	21.83	21.83	21.83				
15	QPSK	75	0	21.70	21.62	21.64				
15	16QAM	1	0	22.16	22.22	22.23				
15	16QAM	1	49	22.32	21.89	21.82	23	1		
15	16QAM	1	74	21.89	21.81	21.76				
15	16QAM	36	0	20.74	20.75	20.76				
15	16QAM	36	20	20.79	20.72	20.78	22	2		
15	16QAM	36	39	20.77	20.75	20.81				
15	16QAM	75	0	20.77	20.75	20.81				
15	16QAM	75	0	21.16	20.91	20.93				
15	16QAM	1	37	21.20	20.95	20.95	22	2		
15	16QAM	1	74	20.99	21.15	21.23				
15	16QAM	36	0	19.72	19.75	19.87				
15	16QAM	36	20	19.70	19.66	19.92	21	3		
15	16QAM	36	39	19.79	19.77	19.86				
15	16QAM	75	0	19.79	19.77	19.86				
15	256QAM	1	0	17.87	17.87	17.86				
15	256QAM	1	37	17.97	18.12	18.14	19	5		
15	256QAM	1	74	17.80	18.05	18.05				
15	256QAM	36	0	17.83	17.85	17.87				
15	256QAM	36	20	17.87	17.85	17.86	19	5		
15	256QAM	36	39	17.85	17.87	17.86				
15	256QAM	75	0	17.88	17.87	17.84				
Channel										19050
										19100
										19150
10	QPSK	1	0	22.82	22.70	22.73				
10	QPSK	1	25	22.79	22.89	22.71	24	0		
10	QPSK	1	49	22.86	22.73	22.73				
10	QPSK	25	0	21.74	21.81	21.89				
10	QPSK	25	12	21.84	21.86	21.74	23	1		
10	QPSK	25	12	21.87	21.79	21.83				
10	QPSK	50	0	21.74	21.63	21.69				
10	16QAM	1	0	22.12	22.22	22.22				
10	16QAM	1	49	22.30	21.87	21.82	23	1		
10	16QAM	1	74	21.81	21.77	22.06				
10	16QAM	25	0	20.80	20.71	20.70				
10	16QAM	25	12	20.83	20.83	20.79	22	2		
10	16QAM	25	25	20.78	20.77	20.78				
10	16QAM	50	0	20.76	20.77	20.78				
10	16QAM	50	0	21.11	20.86	21.32				
10	16QAM	1	25	21.19	20.99	21.05	22	2		
10	16QAM	1	49	20.99	21.22	21.39				
10	16QAM	25	0	19.81	19.85	19.84				
10	16QAM	25	12	19.74	19.77	19.79	21	3		
10	16QAM	25	25	19.77	19.86	19.81				
10	16QAM	50	0	19.83	19.87	19.86				
10	256QAM	1	0	17.83	17.82	17.85				
10	256QAM	1	25	18.03	18.13	18.05	19	5		
10	256QAM	1	49	17.85	17.86	17.84				
10	256QAM	25	0	17.85	17.86	17.80				
10	256QAM	25	12	17.73	17.74	17.74	19	5		
10	256QAM	25	25	17.84	17.85	17.84				
10	256QAM	50	0	17.88	17.89	17.87				
Channel										19150
										19200
										19250
5	QPSK	1	0	22.82	22.70	22.73				
5	QPSK	1	12	22.79	22.71	22.68	24	0		
5	QPSK	1	25	22.86	22.73	22.73				
5	QPSK	12	0	21.72	21.81	21.82				
5	QPSK	12	7	21.80	21.87	21.73	23	1		
5	QPSK	12	13	21.83	21.79	21.83				
5	QPSK	25	0	21.77	21.61	21.68				
5	16QAM	1	0	22.14	22.22	22.22				
5	16QAM	1	12	22.35	21.89	21.84	23	1		
5	16QAM	1	24	21.84	21.79	22.04				
5	16QAM	12	0	20.78	20.71	20.76				
5	16QAM	12	7	20.81	20.88	20.74	22	2		
5	16QAM	12	13	20.75	20.82	20.80				
5	16QAM	25	0	20.82	20.71	20.75				
5	16QAM	25	0	21.15	20.82	21.33				
5	16QAM	1	12	21.18	20.98	21.09	22	2		
5	16QAM	1	24	20.98	21.26	21.39				
5	16QAM	1	49	19.80	19.76	19.82				
5	16QAM	12	7	19.82	19.78	19.82	21	3		
5	16QAM	12	13	19.82	19.85	19.89				
5	16QAM	25	0	19.82	19.82	19.82				
5	256QAM	1	0	17.86	17.89	17.84				
5	256QAM	1	12	17.96	18.12	18.03	19	5		
5	256QAM	1	24	17.87	18.02	18.03				
5	256QAM	12	0	17.87	17.84	17.89				
5	256QAM	12	7	17.79	17.77	17.77	19	5		
5	256QAM	12	13	17.89	17.85	17.87				
5	256QAM	25	0	17.84	17.86	17.82				
Channel										19250
										19300
										19350
3	QPSK	1	0	22.70	22.75	22.75				
3	QPSK	1	8	22.78	22.74	22.71	24	0		
3	QPSK	1	8	22.86	22.73	22.73				
3	QPSK	8	0	21.76	21.86	21.85				
3	QPSK	8	4	21.84	21.85	21.83	23	1		
3	QPSK	8	4	21.83	21.72	21.82				
3	QPSK	15	0	21.83	21.64	21.71				
3	16QAM	1	0	22.09	22.30	22.31				
3	16QAM	1	8	22.38	21.82	21.82	23	1		
3	16QAM	1	14	21.90	21.82	22.03				
3	16QAM	8	0	20.76	20.75	20.74				
3	16QAM	8	4	20.83	20.77	20.85	22	2		
3	16QAM	8	7	20.77	20.87	20.90				
3	16QAM	15	0	20.76	20.76	20.79				
3	16QAM	1	0	21.20	20.87	21.27				
3	16QAM	1	8	21.26	20.92	21.09	22	2		
3	16QAM	1	14	20.93	21.22	21.38				
3	16QAM	8	0	19.82	19.84	19.86				
3	16QAM	8	4	19.81	19.89	19.91	21	3		
3	16QAM	8	7	19.82	19.87	19.92				
3	16QAM	15	0	19.72	19.70	19.86				
3	256QAM	1	0	17.88	17.93	17.85				
3	256QAM	1	8	17.98	18.13	18.05	19	5		
3	256QAM	1	14	17.89	17.93	18.01				
3	256QAM	8	0	17.87	17.89	17.87				
3	256QAM	8	4	17.89	17.85	17.89	19	5		
3	256QAM	8	7	17.81	17.87	17.81				
3	256QAM	8	7	17.81	17.87	17.77				
3	256QAM	15	0	17.88	17.89	17.84				
Channel										19350
										19400
										19450
1.4	QPSK	1	0	22.80	22.77	22.73				
1.4	QPSK	1	22	22.79	22.71	22.68	24	0		
1.4	QPSK	1	5	22.86	22.76	22.68				
1.4	QPSK	3	0	22.78	22.67	22.68				
1.4	QPSK	3	22	22.79	22.71	22.68	23	1		
1.4	QPSK	3	3	22.84	22.68	22.63				
1.4	QPSK	6	0	21.89	21.73	21.71				
1.4	QPSK	6	22	21.89	21.73	21.71	23	1		
1.4	16QAM	1	0	22.40	21.90	21.95				
1.4	16QAM	1	5	21.94	21.79	22.06	23	1		
1.4	16QAM	1	22	22.23	21.89	21.93				</



Band 4_Ant 11									
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Lch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up (int)	MVR (dB)	
Channel									
20000									
20175									
20350									
20500									
20650									
20800									
20950									
21100									
21250									
21400									
21550									
21700									
21850									
22000									
22150									
22300									
22450									
22600									
22750									
22900									
23050									
23200									
23350									
23500									
23650									
23800									
23950									
24100									
24250									
24400									
24550									
24700									
24850									
25000									
25150									
25300									
25450									
25600									
25750									
25900									
26050									
26200									
26350									
26500									
26650									
26800									
26950									
27100									
27250									
27400									
27550									
27700									
27850									
28000									
28150									
28300									
28450									
28600									
28750									
28900									
29050									
29200									
29350									
29500									
29650									
29800									
29950									
30100									
30250									
30400									
30550									
30700									
30850									
31000									
31150									
31300									
31450									
31600									
31750									
31900									
32050									
32200									
32350									
32500									
32650									
32800									
32950									
33100									
33250									
33400									
33550									
33700									
33850									
34000									
34150									
34300									
34450									
34600									
34750									
34900									
35050									
35200									
35350									
35500									
35650									
35800									
35950									
36100									
36250									
36400									
36550									
36700									
36850									
37000									
37150									
37300									
37450									
37600									
37750									
37900									
38050									
38200									
38350									
38500									
38650									
38800									
38950									
39100									
39250									
39400									
39550									
39700									
39850									
40000									
40150									
40300									
40450									
40600									
40750									
40900									
41050									
41200									
41350									
41500									
41650									
41800									
41950									
42100									
42250									
42400									
42550									
42700									
42850									
43000									
43150									
43300									
43450									
43600									
43750									
43900									
44050									
44200									
44350									
44500									
44650									
44800									
44950									
45100									
45250									
45400									
45550									
45700									
45850									
46000									
46150									
46300									
46450									
46600									
46750									
46900									
47050									
47200									
47350									
47500									
47650									
47800									
47950									
48100									
48250									
48400									
48550									
48700									
48850									
49000									
49150									
49300									
49450									
49600									
49750									
49900									
50050									
50200									
50350									
50500									
50650									
50800									
50950									
51100									
51250									
51400									
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51850									
52000									
52150									
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55150									
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55450									
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55750									
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56050									
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56650									
56800									
56950									
57100									
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57400									
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57700									
57850									
58000									
58150									
58300									
58450									
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59200									
59350									
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59650									
59800									
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60850									
61000									
61150									
61300									
61450									
61600									
61750									
61900									
62050									
62200									
62350									
62500									
62650									
62800									
62950									
63100									
63250									
63400									
63550									
63700									
63850									
64000									
64150									
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66250									
66400									
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66700									
66850									
67000									
67150									
67300									
67450									
67600									
67750									
67900									
68050									
68200									
68350									
68500									
68650									
68800									
68950									
69100									
69250									
69400									
69550									
69700									
69850									
70000									
70150									
70300									
70450									
70600									
70750									
70900									
71050									
71200									
71350									
71500									
71650									
71800									
71950									
72100									
72250									
72400									
72550									
72700									
72850									
73000									
73150									
73300									
73450									
73600									
73750									
73900									
74050									
74200									
74350									
74500									
74650									
74800									
74950									
75100									
75250									
75400									
75550									
75700									
75850									
76000									
76150									
76300									
76450									
76600									
76750									
76900									
77050									
77200									
77350									
77500									
77650									
77800									
77950									
78100									
78250									
78400									
78550									
78700									
78850									
79000									
79150									
79300									
79450									
79600									
79750									
79900									
80050									
80200									
80350									
80500									
80650									
80800									
80950									
81100									
81250									
81400									
81550									
81700									
81850									
82000									
82150									
82300									
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82600									
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82900									
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83650									
83800									
83950									
84100									
84250									
84400									
84550									
84700									
84850									
85000									
85150									
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85450									
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85750									
85900									
86050									
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86350									
86500									
86650									
86800									
86950									
87100									
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87550									
87700									
87850									
88000									
88150									
88300									
88450									
88600									
88750									
88900									
89050									
89200									
89350									
89500									
89650									
89800									
89950									
90100									
90250									
90400									
90550									
90700									
90850									
91000									
91150									
91300									
91450									
91600									
91750									
91900									
92050									
92200									
92350									
92500									
92650									
92800									
92950									
93100									
93250									
93400									
93550									
93700									
93850									
94000									
94150									
94300									
94450									
94600									
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95500									
95650									
95800									
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96100									
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96400									
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96700									
96850									
97000									
97150									
97300									
97450									
97600									
97750									
97900									
98050									
98200									
98350									
98500									
98650									
98800									
98950									
99100									
99250									
99400									
99550									
99700									
99850									
100000									



Band 7_Ant 31											
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up (int)	MFR (dB)			
Channel											
Frequency (MHz)				2585	2590	2595					
30	QPSK	1	0	22.44	22.48	22.18	24	0			
30	QPSK	1	48	22.48	22.54	22.29					
30	QPSK	1	96	22.44	22.38	22.26					
30	QPSK	50	0	21.50	21.54	21.34					
30	QPSK	50	24	21.48	21.62	21.18	23	1			
30	QPSK	50	48	21.54	21.64	21.34					
30	QPSK	50	72	21.54	21.64	21.34					
30	QPSK	100	0	21.43	21.60	21.40					
10	16QAM	1	0	21.81	21.81	21.48	23	1			
10	16QAM	1	48	21.85	21.87	21.58					
10	16QAM	1	96	21.71	21.79	21.71					
10	16QAM	50	0	20.50	20.59	20.36					
10	16QAM	50	24	20.49	20.59	20.36	22	2			
10	16QAM	50	48	20.43	20.56	20.36					
10	16QAM	50	72	20.53	20.58	20.33					
10	16QAM	100	0	20.71	20.75	20.52					
10	16QAM	1	96	20.67	20.66	20.45	21	3			
10	16QAM	50	0	19.50	19.53	19.32					
10	16QAM	50	24	19.48	19.52	19.45					
10	16QAM	50	48	19.49	19.58	19.34					
10	16QAM	100	0	19.44	19.58	19.39	19	5			
10	256QAM	1	0	17.04	17.13	17.01					
10	256QAM	1	48	17.19	17.21	17.08					
10	256QAM	1	96	17.11	17.28	17.11					
10	256QAM	50	0	17.19	17.19	17.07	19	5			
10	256QAM	50	24	17.19	17.19	17.25					
10	256QAM	50	48	17.19	17.19	17.25					
10	256QAM	100	0	17.17	17.21	17.23					
Channel				2595	2595	2595	Tune-up (int)	MFR (dB)			
Frequency (MHz)				2595	2595	2595					
15	QPSK	1	0	22.26	22.16	22.03	24	0			
15	QPSK	1	37	22.42	22.28	22.10					
15	QPSK	1	74	22.33	22.27	22.10					
15	QPSK	36	0	21.43	21.25	21.22					
15	QPSK	36	20	21.50	21.35	21.21	23	1			
15	QPSK	36	40	21.50	21.35	21.21					
15	QPSK	75	0	21.36	21.25	21.21					
15	16QAM	1	0	21.81	21.83	21.27					
15	16QAM	1	37	21.68	21.64	21.63	21.52	23	1		
15	16QAM	1	74	21.62	21.64	21.69					
15	16QAM	36	0	20.42	20.35	20.19					
15	16QAM	36	20	20.35	20.29	20.24					
15	16QAM	36	39	20.35	20.25	20.12	22	2			
15	16QAM	75	0	20.34	20.28	20.19					
15	16QAM	75	0	20.34	20.28	20.19					
15	16QAM	1	37	20.45	20.44	20.34					
15	16QAM	1	74	20.49	20.29	20.20	22	2			
15	16QAM	1	96	20.38	20.35	20.19					
15	16QAM	36	0	19.32	19.27	19.22					
15	16QAM	36	59	19.34	19.25	19.12					
15	16QAM	75	0	19.34	19.38	19.19	19	5			
15	256QAM	1	0	17.03	17.15	17.07					
15	256QAM	1	37	17.19	17.19	17.08					
15	256QAM	1	74	17.05	17.21	17.02					
15	256QAM	36	0	17.04	17.09	17.04	19	5			
15	256QAM	36	20	17.04	17.09	17.04					
15	256QAM	36	39	17.12	17.19	17.12					
15	256QAM	75	0	17.08	17.22	17.22					
Channel				2595	2595	2595	Tune-up (int)	MFR (dB)			
Frequency (MHz)				2595	2595	2595					
10	QPSK	1	0	22.40	22.29	22.17	24	0			
10	QPSK	1	25	22.50	22.36	22.30					
10	QPSK	1	50	22.44	22.36	22.30					
10	QPSK	25	0	21.58	21.44	21.25					
10	QPSK	25	12	21.62	21.41	21.35	23	1			
10	QPSK	25	24	21.47	21.41	21.28					
10	QPSK	50	0	21.47	21.40	21.35					
10	16QAM	1	0	21.73	21.48	21.34					
10	16QAM	1	21.76	21.73	21.54	21.44	23	1			
10	16QAM	1	49	21.71	21.65	21.47					
10	16QAM	25	0	20.39	20.42	20.25					
10	16QAM	25	12	20.49	20.39	20.28					
10	16QAM	25	24	20.48	20.39	20.28	22	2			
10	16QAM	50	0	20.45	20.37	20.24					
10	16QAM	50	0	20.60	20.46	20.21					
10	16QAM	1	25	20.59	20.55	20.57					
10	16QAM	1	49	20.67	20.59	20.56	21	3			
10	16QAM	25	0	19.51	19.47	19.24					
10	16QAM	25	12	19.45	19.39	19.24					
10	16QAM	25	50	19.41	19.37	19.24					
10	16QAM	50	0	19.46	19.39	19.23	19	5			
10	256QAM	1	0	17.09	17.11	17.07					
10	256QAM	1	25	17.19	17.14	17.09					
10	256QAM	1	49	17.11	17.29	17.07					
10	256QAM	25	0	17.09	17.19	17.02	19	5			
10	256QAM	25	12	17.09	17.19	17.23					
10	256QAM	25	24	17.15	17.17	17.21					
10	256QAM	50	0	17.04	17.08	17.15					
Channel				2595	2595	2595	Tune-up (int)	MFR (dB)			
Frequency (MHz)				2595	2595	2595					
5	QPSK	1	0	22.40	22.22	22.10	24	0			
5	QPSK	1	12	22.48	22.34	22.17					
5	QPSK	1	24	22.42	22.31	22.21					
5	QPSK	12	0	21.49	21.39	21.20					
5	QPSK	12	7	21.56	21.35	21.25	23	1			
5	QPSK	12	13	21.40	21.32	21.17					
5	QPSK	25	0	21.62	21.33	21.19					
5	16QAM	1	0	21.77	21.71	21.52					
5	16QAM	1	21.76	21.72	21.54	21.44	23	1			
5	16QAM	1	49	21.71	21.76	21.47					
5	16QAM	12	0	20.47	20.40	20.13					
5	16QAM	12	7	20.52	20.42	20.21					
5	16QAM	12	13	20.48	20.40	20.18	22	2			
5	16QAM	25	0	20.48	20.31	20.18					
5	16QAM	25	0	20.61	20.54	20.25					
5	16QAM	1	12	20.62	20.49	20.31					
5	16QAM	1	24	20.34	20.61	20.39	21	3			
5	16QAM	12	0	19.47	19.38	19.16					
5	16QAM	12	7	19.46	19.35	19.23					
5	16QAM	25	0	19.44	19.37	19.19					
5	256QAM	1	0	17.04	17.19	17.02	19	5			
5	256QAM	1	12	17.06	17.17	17.09					
5	256QAM	1	24	17.15	17.18	17.12					
5	256QAM	12	7	17.16	17.15	17.17	19	5			
5	256QAM	12	13	17.01	17.02	17.03					

Band 13_Ant 13									
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.87					
10	QPSK	1	25	23.06					
10	QPSK	1	40	22.78			24	0	
10	QPSK	25	0	21.89					
10	QPSK	25	12	21.84					
10	QPSK	25	25	21.84			23	1	
10	QPSK	50	0	21.85					
10	16QAM	1	0	22.26					
10	16QAM	1	25	21.20			23	1	
10	16QAM	1	40	22.54					
10	16QAM	25	0	20.96					
10	16QAM	25	12	20.26					
10	16QAM	25	25	20.92			22	2	
10	16QAM	50	0	20.82					
10	16QAM	1	0	21.27					
10	16QAM	1	25	21.25			22	2	
10	16QAM	1	40	21.17					
10	16QAM	25	0	19.86					
10	16QAM	25	12	19.87			21	3	
10	16QAM	25	25	19.91					
10	256QAM	1	0	17.86					
10	256QAM	1	25	18.02			19	5	
10	256QAM	1	40	17.98					
10	256QAM	25	0	17.98					
10	256QAM	25	12	17.94					
10	256QAM	25	25	17.99			19	5	
10	256QAM	50	0	17.92					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.88	22.87	22.73			
5	QPSK	1	12	22.89	22.81	22.86	24	0	
5	QPSK	1	24	22.79	22.81	22.87			
5	QPSK	12	0	21.88	21.90	21.82			
5	QPSK	12	7	21.89	21.93	21.87	23	1	
5	QPSK	12	13	21.90	21.90	21.88			
5	QPSK	25	0	21.92	21.94	21.85			
5	16QAM	1	0	22.31	22.08	22.11			
5	16QAM	1	12	22.40	21.95	22.11	23	1	
5	16QAM	1	24	22.14	22.00	22.19			
5	16QAM	12	0	20.88	21.04	21.00			
5	16QAM	12	7	20.94	21.01	20.93	22	2	
5	16QAM	12	13	21.07	20.89	20.81			
5	16QAM	1	12	20.87	21.05	20.92	22	2	
5	16QAM	1	24	21.14	21.01	21.12			
5	16QAM	12	0	19.80	19.87	19.83			
5	16QAM	12	7	19.90	19.93	19.78	21	3	
5	16QAM	12	13	19.89	19.96	19.76			
5	256QAM	1	0	17.79	17.80	17.87			
5	256QAM	1	12	17.97	18.02	17.95	19	5	
5	256QAM	1	24	17.88	17.87	17.98			
5	256QAM	12	0	17.87	17.83	17.77			
5	256QAM	12	7	17.94	17.83	17.86	19	5	
5	256QAM	12	13	17.85	17.86	17.73			
5	256QAM	25	0	17.80	17.81	17.87			

Band 13_Ant 31									
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.53					
10	QPSK	1	25	22.67			24	0	
10	QPSK	1	40	22.32					
10	QPSK	25	0	21.68					
10	QPSK	25	12	21.62			23	1	
10	QPSK	25	25	21.61					
10	QPSK	50	0	21.71					
10	16QAM	1	0	22.09					
10	16QAM	1	25	21.28			23	1	
10	16QAM	1	40	22.18					
10	16QAM	25	0	20.61					
10	16QAM	25	12	20.09					
10	16QAM	25	25	20.73			22	2	
10	16QAM	50	0	20.80					
10	16QAM	1	0	21.09					
10	16QAM	1	25	21.41			22	2	
10	16QAM	1	40	20.95					
10	16QAM	25	0	19.87					
10	16QAM	25	12	19.71			21	3	
10	16QAM	25	25	19.25					
10	16QAM	50	0	19.83					
10	256QAM	1	0	17.77					
10	256QAM	1	25	17.75			19	5	
10	256QAM	1	40	17.71					
10	256QAM	25	0	17.79					
10	256QAM	25	12	17.81			19	5	
10	256QAM	25	25	17.72					
10	256QAM	50	0	17.78					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.27	22.50	22.49			
5	QPSK	1	12	22.39	22.64	22.58	24	0	
5	QPSK	1	24	22.33	22.55	22.45			
5	QPSK	12	0	21.40	21.59	21.58			
5	QPSK	12	7	21.41	21.65	21.57	23	1	
5	QPSK	12	13	21.43	21.49	21.61			
5	QPSK	25	0	21.39	21.62	21.58			
5	16QAM	1	0	21.87	21.60	21.96			
5	16QAM	1	12	21.67	22.16	21.81	23	1	
5	16QAM	1	24	21.67	21.73	21.99			
5	16QAM	12	0	20.43	20.51	20.86			
5	16QAM	12	7	20.42	20.64	20.72	22	2	
5	16QAM	12	13	20.47	20.76	20.70			
5	16QAM	25	0	20.40	20.61	20.62			
5	16QAM	1	0	20.00	20.90	21.23			
5	16QAM	1	12	20.00	20.85	21.35	22	2	
5	16QAM	1	24	20.09	20.77	21.00			
5	16QAM	12	0	19.42	19.76	19.58			
5	16QAM	12	7	19.40	19.57	19.70	21	3	
5	16QAM	12	13	19.44	19.77	19.52			
5	16QAM	25	0	19.40	19.57	19.73			
5	256QAM	1	0	17.63	17.75	17.74			
5	256QAM	1	12	17.62	17.87	17.56	19	5	
5	256QAM	1	24	17.65	17.62	17.84			
5	256QAM	12	0	17.68	17.70	17.87			
5	256QAM	12	7	17.72	17.73	17.73	19	5	
5	256QAM	12	13	17.54	17.57	17.48			
5	256QAM	25	0	17.51	17.62	17.81			

Band 17_Ant 13									
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.96	23.04	22.30			
10	QPSK	1	25	23.30	23.24	23.16	24.5	0	
10	QPSK	1	40	23.07	23.15	23.06			
10	QPSK	25	0	22.21	22.24	22.22			
10	QPSK	25	12	22.09	22.20	22.18	23.5	1	
10	QPSK	25	25	22.02	22.12	22.12			
10	QPSK	50	0	22.11	22.18	22.09			
10	16QAM	1	0	22.43	22.28	22.26			
10	16QAM	1	25	22.62	22.59	22.47	23.5	1	
10	16QAM	1	40	22.50	22.41	22.31			
10	16QAM	25	0	21.18	21.01	21.10			
10	16QAM	25	12	21.09	21.09	21.12	22.5	2	
10	16QAM	25	25	21.17	21.06	21.16			
10	16QAM	50	0	21.17	21.07	21.03			
10	16QAM	1	0	21.42	21.15	21.02			
10	16QAM	1	25	21.60	21.49	21.19	22.5	2	
10	16QAM	1	40	21.31	21.64	21.43			
10	16QAM	25	0	20.11	20.09	20.05			
10	16QAM	25	12	20.18	20.05	20.00	21.5	3	
10	16QAM	25	25	20.14	20.16	20.08			
10	16QAM	50	0	20.15	20.04	20.09			
10	256QAM	1	0	18.45	18.44	18.37			
10	256QAM	1	25	18.31	18.42	18.29	19.5	5	
10	256QAM	1	40	18.36	18.34	18.36			
10	256QAM	25	0	18.29	18.29	18.30			
10	256QAM	25	12	18.28	18.32	18.38	19.5	5	
10	256QAM	25	25	18.30	18.38	18.40			
10	256QAM	50	0	18.33	18.31	18.20			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.14	23.14	23.02			
5	QPSK	1	12	23.12	23.22	23.19	24.5	0	
5	QPSK	1	24	23.20	23.21	23.08			
5	QPSK	12	0	22.16	22.15	22.18			
5	QPSK	12	7	22.24	22.28	22.14	23.5	1	
5	QPSK	12	13	22.24	22.28	22.28			
5	QPSK	25	0	22.21	22.20	22.23			
5	16QAM	1	0	22.67	22.70	22.24			
5	16QAM	1	12	22.75	22.90	22.45	23.5	1	
5	16QAM	1	24	22.84	22.38	22.38			
5	16QAM	12	0	21.23	21.08	21.14			
5	16QAM	12	7	21.33	21.21	21.24	22.5	2	
5	16QAM	12	13	21.36	21.24	21.30			
5	16QAM	25	0	21.24	21.21	21.16			
5	16QAM	25	12	21.19	21.07	21.12	22.5	2	
5	16QAM	25	25	21.24	21.10	21.16			
5	16QAM	50	0	21.06	21.62	21.58			
5	256QAM	1	0	18.45	18.44	18.37			
5	256QAM	1	12	18.31	18.42	18.29	19.5	5	
5	256QAM	1	24	18.36	18.34	18.36			
5	256QAM	25	0	18.29	18.29	18.30			
5	256QAM	25	12	18.28	18.32	18.38	19.5	5	
5	256QAM	25	25	18.30	18.38	18.40			
5	256QAM	50	0	18.33	18.31	18.20			

Band 26_Ant 13																	
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Time-up Int (Sec)	MPE (dB)									
Channel																	
Frequency (MHz)																	
15	QPSK	1	0	23.36	23.37	23.38			25	0							
15	QPSK	1	37	23.40	23.63	23.65											
15	QPSK	1	74	23.44	23.68	23.70											
15	QPSK	36	20	22.47	22.49	22.57											
15	QPSK	36	36	22.47	22.48	22.52			24	1							
15	QPSK	75	0	22.40	22.46	22.48											
15	16QAM	1	0	22.58	22.62	22.63			24		1						
15	16QAM	1	37	22.57	22.63	22.65											
15	16QAM	1	74	22.58	22.64	22.66											
15	16QAM	36	0	21.46	21.46	21.47											
15	16QAM	36	20	21.50	21.52	21.60			23	2							
15	16QAM	36	39	21.63	21.48	21.44											
15	16QAM	75	0	21.47	21.47	21.42											
15	16QAM	1	0	21.70	21.70	21.70			23		2						
15	16QAM	1	37	21.35	21.28	21.86											
15	16QAM	1	74	21.23	21.24	21.72			22	3							
15	16QAM	36	20	20.83	20.47	20.43											
15	16QAM	36	39	20.82	20.46	20.44											
15	256QAM	1	0	18.89	18.94	18.94			20	5							
15	256QAM	1	37	18.90	18.91	18.92											
15	256QAM	1	74	18.96	18.98	18.99											
15	256QAM	36	0	18.93	18.97	18.95											
15	256QAM	36	20	18.95	18.98	18.94			20 <td rowspan="5">5</td> <td colspan="2"></td>	5							
15	256QAM	36	39	18.92	18.93	18.94											
15	256QAM	75	0	18.93	18.96	18.92											
Channel																	
Frequency (MHz)																	
10	QPSK	1	0	23.17	23.04	23.04			25	0							
10	QPSK	1	26	23.22	23.30	23.26											
10	QPSK	1	49	23.12	23.11	23.40											
10	QPSK	25	0	22.28	22.15	22.27			24	1							
10	QPSK	25	12	22.22	22.21	22.26											
10	QPSK	25	23	22.20	22.33	22.21											
10	QPSK	50	0	22.38	22.17	22.27			24	1							
10	QPSK	1	0	22.33	22.71	22.11											
10	16QAM	1	26	22.77	22.65	22.32			23	2							
10	16QAM	1	49	22.15	22.67	22.43											
10	16QAM	25	0	21.22	21.26	21.26			23	2							
10	16QAM	25	12	21.34	21.31	21.46											
10	16QAM	25	25	21.39	21.24	21.24			23	2							
10	16QAM	50	0	21.26	21.24	21.20											
10	16QAM	1	0	21.47	21.52	21.47			23	2							
10	16QAM	1	26	21.18	21.12	21.65											
10	16QAM	1	49	21.02	21.06	21.46			22	3							
10	16QAM	25	0	20.33	20.33	20.31											
10	16QAM	25	12	20.36	20.24	20.16											
10	16QAM	25	25	20.32	20.27	20.19			22	3							
10	256QAM	1	0	18.91	18.79	18.93											
10	256QAM	1	49	18.97	18.93	18.95											
10	256QAM	25	0	18.91	18.94	18.85			20	5							
10	256QAM	25	12	18.94	18.85	18.83											
10	256QAM	25	25	18.96	18.97	18.95											
10	256QAM	50	0	18.74	18.87	18.77											
Channel																	
Frequency (MHz)																	
5	QPSK	1	0	23.14	23.05	23.02			25	0							
5	QPSK	1	12	23.15	23.32	23.18											
5	QPSK	1	24	23.11	23.07	23.15											
5	QPSK	12	0	22.28	22.20	22.27			24	1							
5	QPSK	12	7	22.28	22.24	22.23											
5	QPSK	12	14	22.34	22.34	22.32			24		1						
5	QPSK	25	0	22.43	22.19	22.23											
5	16QAM	1	0	22.41	22.70	22.13			24	1							
5	16QAM	1	12	22.73	22.60	22.41											
5	16QAM	1	24	22.21	22.60	22.41			23	2							
5	16QAM	12	0	21.21	21.26	21.29											
5	16QAM	12	7	21.25	21.30	21.35			23	2							
5	16QAM	12	13	21.41	21.25	21.27											
5	16QAM	25	0	21.30	21.23	21.17			23	2							
5	16QAM	1	0	21.46	21.53	21.36											
5	16QAM	1	12	21.17	21.07	21.64			23	2							
5	16QAM	1	24	21.01	21.07	21.47											
5	16QAM	12	0	20.36	20.20	20.32			22	3							
5	16QAM	12	7	20.44	20.22	20.23											
5	16QAM	12	13	20.34	20.29	20.27			22	3							
5	16QAM	25	0	20.29	20.18	20.36											
5	256QAM	1	0	18.92	18.96	18.91			20	5							
5	256QAM	1	12	18.97	18.79	18.91											
5	256QAM	1	24	18.97	18.98	18.95			20	5							
5	256QAM	12	0	18.99	18.87	18.91											
5	256QAM	12	7	18.97	18.92	18.85			20	5							
5	256QAM	12	13	18.96	18.95	18.95											
5	256QAM	25	0	18.77	18.99	18.78											
Channel																	
Frequency (MHz)																	
3	QPSK	1	0	23.15	23.09	23.03			25	0							
3	QPSK	1	8	23.18	23.30	23.20											
3	QPSK	1	14	23.11	23.07	23.10											
3	QPSK	8	0	22.31	22.18	22.23			24	1							
3	QPSK	8	4	22.22	22.12	22.28											
3	QPSK	8	7	22.28	22.36	22.35			24	1							
3	QPSK	15	0	22.41	22.16	22.24											
3	16QAM	1	0	22.39	22.69	22.07			24	1							
3	16QAM	1	8	22.73	22.67	22.61											
3	16QAM	1	14	22.14	22.62	22.41			23	2							
3	16QAM	8	0	21.28	21.26	21.28											
3	16QAM	8	4	21.28	21.33	21.41			23	2							
3	16QAM	8	7	21.44	2												



Band 66_Ant 31										
WV (MHz)	Modulation	RB Bin	RB Offset	Power Low Ch./ Freq.	Power High Ch./ Freq.	Power High Ch./ Freq.	Time-use int (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
130272 130272 130272										
20	QPSK	1	0	22.97	22.97	22.99				
20	QPSK	1	49	23.02	23.31	23.61	24.5	0		
20	QPSK	1	99	22.97	23.31	23.66				
20	QPSK	50	24	21.97	22.06	22.01	23.5	1		
20	QPSK	50	50	21.89	22.15	22.00				
20	QPSK	100	0	22.02	22.08	22.02				
20	HQAM	1	0	22.33	22.37	22.34	23.5	1		
20	HQAM	1	49	22.27	22.28	22.26				
20	HQAM	1	99	22.21	22.26	22.21				
20	HQAM	50	0	20.98	21.01	20.99				
20	HQAM	50	24	21.03	21.05	21.06	22.5	2		
20	HQAM	50	50	20.97	21.04	20.96				
20	HQAM	1	0	21.27	21.27	21.32				
20	HQAM	1	49	21.17	21.32	21.24	22.5	2		
20	HQAM	1	99	21.21	21.20	21.30				
20	HQAM	50	0	19.99	20.02	20.00				
20	HQAM	50	24	20.01	20.07	20.05	21.5	3		
20	HQAM	50	50	20.01	20.01	20.03				
20	HQAM	100	0	19.98	20.02	19.97				
20	SSBQAM	1	0	17.69	17.79	17.77				
20	SSBQAM	1	49	17.85	17.87	17.74	19.5	5		
20	SSBQAM	1	99	17.85	17.82	17.73				
20	SSBQAM	50	0	17.63	17.77	17.72				
20	SSBQAM	50	24	17.67	17.73	17.79	19.5	5		
20	SSBQAM	50	50	17.72	17.83	17.83				
20	SSBQAM	100	0	17.74	17.85	17.79				
Channel										
Frequency (MHz)										
130247 130272 130287										
15	QPSK	1	0	22.87	22.79	22.92				
15	QPSK	1	37	23.01	23.02	22.90	24.5	0		
15	QPSK	1	74	22.83	23.14	23.78				
15	QPSK	36	0	21.89	21.89	21.91				
15	QPSK	36	20	21.83	21.85	21.89	23.5	1		
15	QPSK	36	39	21.83	21.85	21.82				
15	QPSK	75	0	21.83	21.87	21.88				
15	HQAM	1	0	21.85	22.17	22.16	23.5	1		
15	HQAM	1	37	21.82	22.28	22.37				
15	HQAM	1	74	21.96	22.25	22.37				
15	HQAM	36	0	20.95	20.77	20.82				
15	HQAM	36	20	20.84	20.80	20.81	22.5	2		
15	HQAM	36	39	20.82	20.90	20.93				
15	HQAM	75	0	20.87	20.72	20.78				
15	HQAM	1	0	20.96	20.92	20.96				
15	HQAM	1	37	21.22	21.14	20.85	22.5	2		
15	HQAM	1	74	20.77	20.86	20.89				
15	HQAM	36	0	19.85	19.85	19.84	21.5	3		
15	HQAM	36	20	19.76	19.86	19.89				
15	HQAM	36	39	19.76	19.86	19.89				
15	HQAM	75	0	19.85	19.75	19.84	19.5	5		
15	SSBQAM	1	0	17.64	17.77	17.70				
15	SSBQAM	1	37	17.86	17.76	17.73	19.5	5		
15	SSBQAM	1	74	17.75	17.73	17.74				
15	SSBQAM	36	0	17.62	17.72	17.69				
15	SSBQAM	36	20	17.59	17.68	17.76	19.5	5		
15	SSBQAM	36	39	17.65	17.77	17.76				
15	SSBQAM	75	0	17.69	17.83	17.73				
Channel										
Frequency (MHz)										
130222 130272 130287										
10	QPSK	1	0	22.87	22.98	23.03				
10	QPSK	1	25	23.06	23.01	22.95	24.5	0		
10	QPSK	1	49	23.00	23.07	23.05				
10	QPSK	25	0	22.01	21.90	22.01	23.5	1		
10	QPSK	25	12	22.03	21.85	22.10				
10	QPSK	25	24	22.02	22.05	22.02				
10	QPSK	50	0	21.99	21.93	21.98				
10	HQAM	1	0	22.35	21.97	22.51	23.5	1		
10	HQAM	1	25	21.84	22.32	22.33				
10	HQAM	1	49	21.86	22.38	22.33				
10	HQAM	25	0	21.98	21.98	21.95				
10	HQAM	25	12	21.07	20.97	21.13	22.5	2		
10	HQAM	25	25	20.99	21.09	20.97				
10	HQAM	50	0	20.98	20.99	20.90				
10	HQAM	1	0	21.94	21.47	21.08				
10	HQAM	1	25	21.47	21.20	21.25	22.5	2		
10	HQAM	25	0	19.97	19.98	19.90				
10	HQAM	25	12	20.09	19.94	20.19	21.5	3		
10	HQAM	25	25	20.07	19.97	20.01				
10	HQAM	50	0	19.98	19.94	19.91				
10	SSBQAM	1	0	17.61	17.71	17.62				
10	SSBQAM	1	49	17.76	17.83	17.73	19.5	5		
10	SSBQAM	1	99	17.76	17.69	17.62				
10	SSBQAM	25	0	17.62	17.73	17.70				
10	SSBQAM	25	12	17.65	17.74	17.76	19.5	5		
10	SSBQAM	25	25	17.71	17.85	17.69				
10	SSBQAM	50	0	17.63	17.70	17.66				
Channel										
Frequency (MHz)										
131967 132222 132447										
3	QPSK	1	0	22.87	22.87	22.81				
3	QPSK	1	14	22.93	22.79	22.87	24.5	0		
3	QPSK	1	28	22.93	22.79	22.87				
3	QPSK	8	4	22.05	21.94	22.03	23.5	1		
3	QPSK	8	7	22.00	21.84	21.94				
3	QPSK	16	0	21.95	21.88	21.91				
3	HQAM	1	0	22.32	22.45	22.45	23.5	1		
3	HQAM	8	4	21.96	22.40	22.53				
3	HQAM	8	7	21.92	22.73	22.86				
3	HQAM	8	4	21.05	21.13	21.11	22.5	2		
3	HQAM	16	0	21.02	20.90	21.01				
3	HQAM	1	0	21.98	22.20	22.21				
3	HQAM	8	0	21.98	22.20	22.21	22.5	2		
3	HQAM	1	14	21.80	21.77	21.02				
3	HQAM	8	0	20.90	20.96	21.04				
3	HQAM	8	7	21.03	21.12	21.03	21.5	3		
3	HQAM	8	7	20.95	21.00	20.95				
3	HQAM	16	0	20.85	21.10	21.03				
3	HQAM	1	0	17.73	17.83	17.66	19.5	5		
3	SSBQAM	1	14	17.75	17.71	17.71				
3	SSBQAM	8	7	17.74	17.83	17.81				
3	SSBQAM	8	4	17.81	17.70	17.78	19.5	5		
3	SSBQAM	16	0	17.72	17.79	17.78				
3	SSBQAM	1	0	17.64	17.84	17.81				
Channel										
Frequency (MHz)										
1716.7 1745 1772.5										
14	QPSK	1	0	22.97	22.97	22.94				
14	QPSK	1	5	22.89	22.81	22.89	24.5	0		
14	QPSK	1	10	22.89	22.81	22.89				
14	QPSK	3	0	22.99	22.92	22.95				
14	QPSK	3	3	22.90	22.83	22.83	23.5	1		
14	HQAM	1	0	22.29	22.20	22.33				
14	HQAM	1	0	22.29	22.20	22.33				
14	HQAM	3	0	22.22	22.23	22.29	23.5	1		
14	HQAM	3	0	22.02	22.05	22.12				
14	HQAM	3	3	22.01	22.08	22.06				
14	HQAM	6	0	20.95	21.04	21.04	22.5	2		
14	HQAM	6	0	21.04	21.16	21.16				
14	HQAM	6	3	21.04	21.15	21.16	22.5	2		
14	HQAM	6	3	20.93	21.04	21.08				
14	HQAM	6	6	19.94	19.98	20.02	21.5	3		
14	HQAM	6	6	19.99	19.99	20.02				
14	SSBQAM	1	0	17.85	17.87	17.77				
14	SSBQAM	1	5	17.82	17.74	17.88	19.5	5		
14	SSBQAM	1	10	17.82	17.83	17.81				
14	SSBQAM	3	0	17.87	17.84	17.75				
14	SSBQAM	3	3	17.87	17.86	17.77	19.5	5		
14	SSBQAM	3	6	17.88	17.86	17.78				



Band 38_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / [Freq]	Power High Ch / [Freq]	Power Low Ch / [Freq]	Time-up [ms]	MFR [dB]	
Channel									
Frequency [MHz]									
20	QPSK	1	0	23.82	23.83	23.95			25
20	QPSK	1	49	23.87	24.11	24.24			
20	QPSK	1	99	23.92	24.19	24.33			
20	QPSK	50	0	23.98	23.99	23.99			
20	QPSK	50	24	23.91	23.92	23.92			
20	QPSK	50	50	23.92	23.98	23.94			24
20	16QAM	1	0	22.99	23.11	23.13			
20	16QAM	1	49	22.97	22.80	23.11			
20	16QAM	1	99	22.82	23.28	23.86			
20	16QAM	50	0	21.93	21.98	21.94			
20	16QAM	50	24	22.02	22.00	21.98			23
20	16QAM	50	50	22.06	22.03	22.04			
20	16QAM	100	0	22.01	22.04	21.95			
20	16QAM	1	49	22.14	22.00	21.94			
20	64QAM	1	99	21.96	21.66	21.87			
20	64QAM	50	0	20.99	20.98	20.97			23
20	64QAM	50	24	21.12	21.08	21.01			
20	64QAM	50	50	21.07	21.15	21.13			
20	64QAM	100	0	21.05	21.03	20.94			
20	256QAM	1	0	18.69	18.74	18.68			
20	256QAM	1	49	18.48	18.63	18.66			20
20	256QAM	1	99	18.61	18.75	18.84			
20	256QAM	50	0	18.67	18.79	18.73			
20	256QAM	50	24	18.73	18.72	18.73			
20	256QAM	50	50	18.74	18.74	18.75			
20	256QAM	100	0	18.66	18.73	18.74			
Channel									
Frequency [MHz]									
16	QPSK	1	0	23.59	23.54	23.69			25
16	QPSK	1	37	23.78	23.69	23.92			
16	QPSK	1	74	23.73	23.67	23.77			
16	QPSK	36	0	22.86	22.79	22.77			
16	QPSK	36	20	22.77	22.79	22.77			
16	QPSK	75	0	22.73	22.75	22.82			24
16	QPSK	75	0	22.73	23.03	23.60			
16	16QAM	1	0	22.74	23.04	23.07			
16	16QAM	1	74	22.73	22.88	22.95			
16	16QAM	36	0	21.78	21.79	21.88			
16	16QAM	36	20	21.80	21.83	21.83			23
16	16QAM	75	0	21.85	21.92	21.88			
16	16QAM	75	0	21.81	21.85	21.84			
16	16QAM	75	24	21.78	21.74	21.78			
16	64QAM	1	37	21.74	22.02	21.54			
16	64QAM	1	74	21.86	21.78	21.96			23
16	64QAM	36	0	20.82	20.89	20.87			
16	64QAM	36	20	20.81	20.79	20.81			
16	64QAM	36	20	20.74	20.77	21.05			
16	256QAM	1	0	18.65	18.72	18.66			
16	256QAM	1	37	18.44	18.61	18.66			20
16	256QAM	1	74	18.61	18.63	18.65			
16	256QAM	36	0	18.53	18.78	18.79			
16	256QAM	36	20	18.67	18.67	18.67			
16	256QAM	36	20	18.62	18.75	18.75			
16	256QAM	75	0	18.66	18.68	18.61			20
16	256QAM	75	0	18.66	18.68	18.61			
Channel									
Frequency [MHz]									
10	QPSK	1	0	23.73	23.90	23.98			25
10	QPSK	1	25	23.87	23.97	24.00			
10	QPSK	1	50	23.93	23.93	23.93			
10	QPSK	36	0	22.89	22.87	22.98			
10	QPSK	25	12	22.91	22.92	23.01			
10	QPSK	25	26	22.89	22.91	22.98			24
10	QPSK	50	0	22.89	22.91	22.98			
10	16QAM	1	0	22.78	23.01	23.79			
10	16QAM	1	25	22.77	23.15	23.92			
10	16QAM	1	49	23.00	23.98	23.82			
10	16QAM	25	0	21.89	22.01	22.02			23
10	16QAM	25	12	21.81	21.88	22.00			
10	16QAM	25	25	21.80	21.94	22.08			
10	16QAM	50	0	21.81	21.87	21.86			
10	64QAM	1	49	21.96	21.78	21.82			
10	64QAM	1	25	21.81	22.20	22.48			22
10	64QAM	25	0	20.85	20.89	20.88			
10	64QAM	25	12	20.87	20.91	20.99			
10	64QAM	25	25	20.91	20.93	21.10			
10	64QAM	50	0	20.84	20.88	21.02			
10	256QAM	1	0	18.69	18.72	18.61			20
10	256QAM	1	25	18.42	18.61	18.61			
10	256QAM	1	49	18.47	18.68	18.62			
10	256QAM	25	0	18.53	18.68	18.69			
10	256QAM	25	12	18.63	18.67	18.74			
10	256QAM	25	25	18.54	18.70	18.65			20
10	256QAM	50	0	18.55	18.63	18.72			
Channel									
Frequency [MHz]									
5	QPSK	1	0	23.71	23.94	23.74			25
5	QPSK	1	12	23.86	23.93	24.05			
5	QPSK	1	24	23.93	23.96	24.07			
5	QPSK	12	0	22.91	22.98	22.95			
5	QPSK	12	7	22.95	22.94	23.01			
5	QPSK	36	0	22.97	22.87	23.08			24
5	16QAM	1	0	22.92	23.07	23.09			
5	16QAM	1	36	22.89	22.82	23.01			
5	16QAM	1	24	22.82	22.84	23.01			
5	16QAM	12	5	21.92	21.91	22.04			
5	16QAM	12	7	21.92	21.94	22.04			23
5	16QAM	25	0	21.88	21.86	21.88			
5	16QAM	25	12	21.85	21.87	21.79			
5	16QAM	25	25	21.78	21.80	21.81			
5	64QAM	1	24	21.74	22.37	23.03			
5	64QAM	12	0	20.95	20.92	21.11			22
5	64QAM	12	5	21.01	20.92	21.11			
5	64QAM	12	13	21.01	20.95	21.14			
5	64QAM	25	0	20.84	20.81	20.99			
5	64QAM	25	12	20.87	20.88	20.99			
5	256QAM	1	12	18.49	18.57	18.63			20
5	256QAM	1	24	18.52	18.48	18.60			
5	256QAM	12	0	18.74	18.75	18.74			
5	256QAM	12	7	18.73	18.68	18.64			
5	256QAM	12	13	18.69	18.76	18.75			
5	256QAM	25	0	18.51	18.51	18.56			20
5	256QAM	25	13	18.50	18.52	18.56			

Band 41_Ant 31												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mode Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Power High Mode Ch / Freq	Turnup Intvl (min)	MPR (dB)		
Channel				39750	40165	40520	41055	41440				
Frequency (MHz)				2508	2549.5	2585	2633.5	2672				
20	QPSK	1	0	23.32	23.27	23.48	23.23	23.22	25	0		
20	QPSK	1	48	23.48	23.37	23.55	23.47	23.38				
20	QPSK	1	96	23.20	23.26	23.38	23.37	23.17				
20	QPSK	50	0	23.50	23.43	22.85	22.82	23.38				
20	QPSK	50	24	22.33	22.33	22.58	22.40	22.24				
20	QPSK	50	56	22.37	22.38	22.47	22.41	22.37	24	1		
20	QPSK	100	0	22.32	22.33	22.58	22.37	22.38				
20	16QAM	1	0	22.22	22.35	22.36	22.38	22.26				
20	16QAM	1	48	22.22	22.35	22.41	22.54	22.32				
20	16QAM	1	96	22.46	22.31	22.55	22.43	22.41				
20	16QAM	50	0	21.30	21.42	21.57	21.47	21.23	23	2		
20	16QAM	50	24	21.30	21.37	21.61	21.47	21.37				
20	16QAM	50	50	21.26	21.29	21.63	21.41	21.25				
20	16QAM	100	0	21.34	21.38	21.48	21.51	21.33				
20	64QAM	1	0	21.53	21.20	21.48	21.37	21.28				
20	64QAM	1	48	21.40	21.27	21.65	21.38	21.19	22	3		
20	64QAM	1	96	21.36	21.29	21.36	21.30	21.24				
20	64QAM	50	0	20.38	20.38	20.44	20.39	20.40				
20	64QAM	50	24	20.43	20.36	20.59	20.49	20.41				
20	64QAM	50	50	20.39	20.19	20.86	20.49	20.30				
20	256QAM	1	0	18.39	18.53	18.53	18.38	18.44	20	5		
20	256QAM	1	48	18.45	18.59	18.68	18.46	18.54				
20	256QAM	1	96	18.42	18.39	18.63	18.43	18.39				
20	256QAM	50	0	18.47	18.42	18.57	18.44	18.57				
20	256QAM	50	24	18.51	18.46	18.58	18.49	18.58				
20	256QAM	50	50	18.57	18.48	18.65	18.51	18.48	20	5		
20	256QAM	100	0	18.54	18.42	18.52	18.41	18.51				
Channel				39725	40173	40522	41058	41515	Turnup Intvl (min)			MPR (dB)
Frequency (MHz)				2507.5	2548.5	2589.5	2637.5	2676.5				
18	QPSK	1	0	23.07	23.05	23.27	23.14	23.08	25	0		
18	QPSK	1	37	23.18	23.12	23.38	23.35	23.08				
18	QPSK	1	74	23.18	23.22	23.19	23.32	23.18				
18	QPSK	36	0	22.19	22.18	22.34	22.22	22.15				
18	QPSK	36	20	22.13	22.15	22.38	22.24	22.18				
18	QPSK	36	36	22.12	22.07	22.31	22.13	22.03	24	1		
18	QPSK	75	0	22.09	22.22	22.34	22.29	22.12				
18	16QAM	1	0	22.08	22.08	22.73	22.07	22.12				
18	16QAM	1	37	22.22	22.19	22.52	22.32	22.28				
18	16QAM	1	74	22.05	22.04	22.19	22.16	22.02				
18	16QAM	36	0	21.05	21.23	21.30	21.33	21.09	23	2		
18	16QAM	36	20	21.08	21.23	21.31	21.26	21.08				
18	16QAM	36	36	21.05	21.04	21.28	21.15	21.04				
18	16QAM	75	0	21.05	21.17	21.32	21.32	21.13				
18	64QAM	1	0	21.08	21.13	21.09	21.09	21.26				
18	64QAM	1	37	21.12	21.23	21.19	21.20	21.14	23	2		
18	64QAM	1	74	21.27	21.17	21.14	21.20	21.07				
18	64QAM	36	0	20.23	20.20	20.45	20.28	20.11				
18	64QAM	36	20	20.24	20.15	20.28	20.27	20.11				
18	64QAM	75	0	20.10	20.18	20.32	20.15	20.00				
18	64QAM	75	20	20.10	20.31	20.25	20.28	20.24	22	3		
18	256QAM	1	0	18.10	18.39	18.27	18.20	18.31				
18	256QAM	1	37	18.25	18.34	18.47	18.37	18.24				
18	256QAM	1	74	18.14	18.18	18.37	18.17	18.23				
18	256QAM	36	0	18.28	18.12	18.40	18.21	18.42				
18	256QAM	36	20	18.28	18.25	18.36	18.28	18.24	20	5		
18	256QAM	36	36	18.38	18.21	18.48	18.29	18.29				
18	256QAM	75	0	18.38	18.27	18.37	18.18	18.22				
Channel				39760	40160	40520	41050	41450	Turnup Intvl (min)	MPR (dB)		
Frequency (MHz)				2507	2547.5	2588	2633	2674				
10	QPSK	1	0	23.07	23.19	23.49	23.19	23.06	25	0		
10	QPSK	1	25	23.21	23.16	23.43	23.31	23.39				
10	QPSK	1	48	23.08	23.18	23.48	23.19	23.23				
10	QPSK	25	0	22.37	22.38	22.57	22.41	22.33				
10	QPSK	25	12	22.35	22.25	22.72	22.65	22.32				
10	QPSK	25	26	22.29	22.27	22.47	22.35	22.34	24	1		
10	QPSK	50	0	22.23	22.29	22.67	22.45	22.35				
10	16QAM	1	0	22.25	22.18	22.37	22.51	22.11				
10	16QAM	1	26	22.41	22.39	22.65	22.45	22.08				
10	16QAM	1	48	22.48	22.61	22.48	22.28	22.20				
10	16QAM	25	0	21.34	21.43	21.57	21.38	21.32	23	2		
10	16QAM	25	12	21.31	21.21	21.61	21.45	21.42				
10	16QAM	25	26	21.34	21.24	21.43	21.31	21.31				
10	16QAM	50	0	21.22	21.30	21.59	21.40	21.25				
10	64QAM	1	0	21.11	21.07	21.07	21.08	21.10				
10	64QAM	1	26	21.27	21.18	21.23	21.12	21.31	23	2		
10	64QAM	1	48	21.24	21.25	21.25	21.41	21.76				
10	64QAM	25	0	20.35	20.38	20.51	20.52	20.16				
10	64QAM	25	12	20.33	20.31	20.50	20.54	20.18				
10	64QAM	25	26	20.37	20.29	20.42	20.45	20.38				
10	64QAM	50	0	20.26	20.29	20.57	20.39	20.35	22	3		
10	256QAM	1	0	18.25	18.34	18.50	18.20	18.31				
10	256QAM	1	26	18.29	18.43	18.46	18.24	18.26				
10	256QAM	1	48	18.27	18.60	18.35	18.20	18.22				
10	256QAM	25	0	18.32	18.18	18.28	18.19	18.41				
10	256QAM	25	12	18.36	18.22	18.38	18.28	18.36	20	5		
10	256QAM	25	26	18.34	18.19	18.47	18.24	18.29				
10	256QAM	50	0	18.39	18.13	18.34	18.22	18.31				
Channel				39765	40165	40520	41053	41455	Turnup Intvl (min)	MPR (dB)		
Frequency (MHz)				2498.5	2549.5	2599.5	2649.5	2699.5				
5	QPSK	1	0	23.07	23.04	23.44	23.18	23.05	25	0		
5	QPSK	1	12	23.25	23.16	23.43	23.39	23.25				
5	QPSK	1	24	23.18	23.01	23.31	23.06	23.15				
5	QPSK	12	0	22.25	22.32	22.51	22.37	22.32				
5	QPSK	12	7	22.35	22.34	22.48	22.42	22.39				
5	QPSK	12	18	22.23	22.26	22.44	22.39	22.33	24	1		
5	QPSK	25	0	22.38	22.28	22.60	22.39	22.28				
5	16QAM	1	0	22.39	22.07	22.53	22.23	22.30				
5	16QAM	1	12	22.24	22.35	22.25	22.07	22.06				
5	16QAM	1	24	22.03	22.22	22.38	22.01	22.30				
5	16QAM	12	0	21.34	21.28	21.53	21.47	21.28	23	2		
5	16QAM	12	7	21.40	21.36	21.49	21.32	21.27				
5	16QAM	12	13	21.37	21.29	21.54	21.28	21.32				
5	16QAM	25	0	21.38	21.36	21.51	21.35	21.44				
5	64QAM	1	0	21.06	21.18	21.34	21.03	21.07				
5	64QAM	1	24	21.12	21.26	21.40	21.09	21.39	23			



Reduced Power Mode for DS12

GSM800_Ant 13										GSM800_Ant 31											
Tx Channel		Base Average Power (dBm)			Turn-up Limit			Frame Average Power (dBm)			Tx Channel		Base Average Power (dBm)			Turn-up Limit			Frame Average Power (dBm)		
Frequency (MHz)		502.2	506.4	508.8	512	561	561	502.2	506.4	508.8	Tx Channel		502.2	506.4	508.8	512	561	561	502.2	506.4	508.8
GSM 1 Tx slot		20.41	20.71	20.45	21.00	20.41	20.71	20.45	22.00	22.00	GSM 1 Tx slot		32.10	32.24	32.13	33.00	23.10	23.24	23.13	24.50	24.50
GPRS 1 Tx slot		20.47	20.76	20.52	21.00	20.47	20.76	20.52	22.00	22.00	GPRS 1 Tx slot		32.13	32.21	32.17	33.00	23.13	23.21	23.17	24.50	24.50
GPRS 2 Tx slot		20.33	20.51	20.40	20.50	20.33	20.51	20.40	22.00	22.00	GPRS 2 Tx slot		29.04	29.08	29.03	31.80	23.04	23.08	23.03	25.50	25.50
GPRS 3 Tx slot		21.43	21.63	21.51	21.20	21.43	21.63	21.51	22.00	22.00	GPRS 3 Tx slot		22.07	22.05	22.12	23.50	22.17	22.05	22.20	23.24	23.24
GPRS 4 Tx slot		23.49	23.69	23.51	23.50	23.49	23.69	23.51	22.00	22.00	GPRS 4 Tx slot		26.51	26.64	26.59	28.20	23.51	23.64	23.59	23.20	23.20
EDGE(GSM) 1 Tx slot		20.51	20.72	20.58	21.00	20.51	20.72	20.58	22.00	22.00	EDGE(GSM) 1 Tx slot		32.02	32.08	32.12	32.80	23.02	23.08	23.12	24.50	24.50
EDGE(GSM) 3 Tx slot		20.27	20.46	20.34	20.50	20.27	20.46	20.34	22.00	22.00	EDGE(GSM) 3 Tx slot		29.06	29.05	29.10	31.50	23.06	23.05	23.10	23.50	23.50
EDGE(GSM) 3 Tx slot		24.38	24.58	24.43	24.20	24.38	24.58	24.43	21.94	21.94	EDGE(GSM) 3 Tx slot		27.91	27.93	28.05	28.50	23.95	23.97	23.79	23.24	23.24
EDGE(GSM) 4 Tx slot		22.41	22.59	22.47	22.60	22.41	22.59	22.47	22.00	22.00	EDGE(GSM) 4 Tx slot		26.38	26.52	26.54	28.20	23.38	23.52	23.54	23.20	23.20
EDGE(GPRS) 1 Tx slot		20.12	20.31	20.26	21.00	20.12	20.31	20.26	22.00	22.00	EDGE(GPRS) 1 Tx slot		23.81	23.83	23.86	27.50	18.81	18.83	18.86	18.50	18.50
EDGE(GPRS) 2 Tx slot		24.35	24.54	24.47	24.50	24.35	24.54	24.47	20.00	20.00	EDGE(GPRS) 2 Tx slot		24.01	23.95	24.03	26.50	18.01	17.95	18.03	18.50	18.50
EDGE(GPRS) 3 Tx slot		22.48	22.66	22.62	24.00	22.48	22.66	22.62	18.24	18.24	EDGE(GPRS) 3 Tx slot		21.91	21.89	21.94	23.50	17.85	17.89	17.88	18.24	18.24
EDGE(GPRS) 4 Tx slot		21.94	21.23	21.16	22.50	21.94	21.23	21.16	19.50	19.50	EDGE(GPRS) 4 Tx slot		20.57	20.46	20.61	22.00	17.57	17.48	17.61	18.00	18.00

GSM1800_Ant 13										GSM1800_Ant 31											
Tx Channel		Base Average Power (dBm)			Turn-up Limit			Frame Average Power (dBm)			Tx Channel		Base Average Power (dBm)			Turn-up Limit			Frame Average Power (dBm)		
Frequency (MHz)		1800.2 1800.0 1800.8 1800.5 1800.2 1800.0 1800.8 1800.6 1800.5 Tx Channel		1800.2 1800.0 1800.8 1800.5 1800.2 1800.0 1800.8 1800.6 1800.5																	
GSM 1 Tx slot		20.58	20.63	20.48	20.50	16.58	16.63	16.48	17.50	17.50	GSM 1 Tx slot		20.49	20.63	20.71	21.00	20.49	20.63	20.71	22.00	22.00
GPRS 1 Tx slot		20.48	20.78	20.68	21.00	20.48	20.78	20.68	20.45	20.45	GPRS 1 Tx slot		24.14	24.07	23.75	23.00	21.54	21.07	20.75	22.00	22.00
GPRS 2 Tx slot		20.38	22.57	22.43	23.50	20.38	18.57	18.43	17.50	17.50	GPRS 2 Tx slot		22.12	22.46	22.14	22.00	21.12	21.46	21.14	22.00	22.00
GPRS 3 Tx slot		20.04	20.06	20.71	21.70	20.04	16.58	16.45	17.44	17.44	GPRS 3 Tx slot		25.26	25.51	25.36	27.00	21.00	21.25	21.10	22.74	22.74
GPRS 4 Tx slot		18.36	18.54	18.41	20.50	18.36	16.58	16.41	17.50	17.50	GPRS 4 Tx slot		23.83	24.07	23.92	26.50	20.83	21.07	20.92	22.50	22.50
EDGE(GSM) 1 Tx slot		20.45	20.63	20.50	20.50	16.45	16.63	16.50	17.50	17.50	EDGE(GSM) 1 Tx slot		20.48	20.79	20.60	21.00	20.48	20.79	20.60	22.00	22.00
EDGE(GSM) 3 Tx slot		22.27	22.47	22.33	23.50	22.27	16.58	16.47	17.50	17.50	EDGE(GSM) 3 Tx slot		27.03	27.46	27.07	29.00	21.03	21.46	21.07	22.00	22.00
EDGE(GSM) 4 Tx slot		20.56	20.74	20.61	21.70	20.56	16.48	16.35	17.44	17.44	EDGE(GSM) 4 Tx slot		25.17	25.43	25.21	27.00	20.91	21.17	20.95	22.74	22.74
EDGE(GPRS) 1 Tx slot		18.28	18.46	18.33	20.50	18.28	16.48	16.33	17.50	17.50	EDGE(GPRS) 1 Tx slot		23.50	24.00	23.84	26.50	20.50	21.00	20.84	22.50	22.50
EDGE(GPRS) 2 Tx slot		22.53	22.74	22.60	23.50	22.53	16.53	16.43	17.50	17.50	EDGE(GPRS) 2 Tx slot		25.01	25.56	25.36	28.00	18.01	18.56	18.26	17.80	17.80
EDGE(GPRS) 3 Tx slot		22.43	22.68	22.54	23.50	22.43	16.48	16.34	17.50	17.50	EDGE(GPRS) 3 Tx slot		23.47	23.44	23.80	26.00	17.47	17.44	17.60	18.00	18.00
EDGE(GPRS) 4 Tx slot		20.50	20.76	20.62	21.70	20.50	16.53	16.50	17.44	17.44	EDGE(GPRS) 4 Tx slot		21.46	21.43	21.87	23.50	17.16	17.17	17.41	18.74	18.74
EDGE(GPRS) 4 Tx slot		19.27	19.45	19.33	20.50	19.27	16.45	16.33	17.50	17.50	EDGE(GPRS) 4 Tx slot		19.91	19.85	20.22	21.50	16.91	16.85	17.22	18.50	18.50
Band										WCDMA V_Ant 13											
Tx Channel		Base			Turn-up Limit			Frame Average Power (dBm)			Tx Channel		Base			Turn-up Limit			Frame Average Power (dBm)		
Frequency (MHz)		906.2 906.0 906.8	906.2 906.0 906.8	906.2 906.0 906.8	Tx Channel		1412 1413 1413	1412 1413 1413	1412 1413	1413											
GSM 12-20MHz		15.14	15.23	15.26	15.50	22.05	22.29	22.22	24.00	24.00	GSM 12-20MHz		15.03	15.06	14.98	16.00	22.06	22.02	22.05	24.50	24.50
HSPA Subnet-1		14.15	14.21	14.26	15.50	21.09	21.59	21.53	23.50	23.50	HSPA Subnet-1		14.11	14.13	14.09	16.00	22.06	22.11	22.06	24.50	24.50
HSPA Subnet-2		14.13	14.33	14.21	15.50	21.40	21.60	21.57	23.50	23.50	HSPA Subnet-2		14.17	14.11	14.09	16.00	22.31	22.23	22.25	23.50	23.50
HSPA Subnet-3		13.26	13.71	13.66	15.00	20.92	21.09	21.06	22.50	22.50	HSPA Subnet-3		13.66	13.53	13.53	14.50	21.88	21.77	21.78	23.50	23.50
HSPA Subnet-4		13.68	13.75	13.68	15.00	20.89	21.09	21.00	22.50	22.50	HSPA Subnet-4		13.58	13.55	13.58	14.50	21.82	21.78	21.81	23.50	23.50
DC-HSDPA Subnet-1		14.09	14.10	14.13	15.50	21.33	21.59	21.47	23.50	23.50	DC-HSDPA Subnet-1		14.09	13.98	13.95	16.00	22.18	22.20	22.19	23.50	23.50
DC-HSDPA Subnet-2		14.12	14.23	14.20	15.50	21.32	21.51	21.52	23.50	23.50	DC-HSDPA Subnet-2		14.11	14.03	14.04	16.00	22.25	22.18	22.16	23.50	23.50
DC-HSDPA Subnet-3		13.31	13.75	13.60	15.00	20.82	21.04	20.98	22.50	22.50	DC-HSDPA Subnet-3		13.84	13.49	13.48	14.50	21.86	21.75	21.70	23.50	23.50
DC-HSDPA Subnet-4		13.60	13.68	13.75	15.00	20.83	21.16	20.99	22.50	22.50	DC-HSDPA Subnet-4		13.60	13.52	13.58	14.50	21.72	21.77	21.60	23.50	23.50
HSPA Subnet-1		14.24	14.27	14.30	15.50	21.40	21.64	21.59	23.50	23.50	HSPA Subnet-1		14.16	14.09	14.09	16.00	22.34	22.28	22.25	23.50	23.50
HSPA Subnet-2		12.17	12.21	12.30	13.50	19.41	19.59	19.55	21.00	21.00	HSPA Subnet-2		12.06	11.97	12.03	13.50	20.59	20.50	20.50	21.50	21.50
HSPA Subnet-3		13.17	13.26	13.27	14.50	20.37	20.86	20.57	22.00	22.00	HSPA Subnet-3		13.06	13.10	13.17	14.50	21.91	21.30	21.29	21.50	21.50
HSPA Subnet-4		12.21	12.25	12.26	13.50	19.41	19.63	19.56	21.00	21.00	HSPA Subnet-4		12.08	12.15	12.13	13.50	20.57	20.30	20.52	21.50	21.50
HSPA Subnet-5		14.27	14.23	14.38	15.50	21.50	21.70	21.80	23.50	23.50	HSPA Subnet-5		14.13	14.16	14.12	16.00	22.20	22.20	22.20	23.50	23.50
HSPA (LEGACY) Subnet-1		13.54	13.77	13.76	14.50	19.86	20.00	20.07	21.50	21.50	HSPA (LEGACY) Subnet-1		13.56	13.52	13.57	15.50	20.06	20.74	20.76	21.50	21.50
Band										WCDMA V_Ant 31											
Tx Channel		Base			Turn-up Limit			Frame Average Power (dBm)			Tx Channel		Base			Turn-up Limit			Frame Average Power (dBm)		
Frequency (MHz)		906.4 906.4 906.6 906.4 906.4 906.6 906.4 906.4 906.6 Tx Channel		1412 1412 1413 1412 1412 1413 1412 1412 1413																	
GSM 12-20MHz		15.03	15.07	15.01	21.00	21.00	21.71	23.74	23.74	23.74	GSM 12-20MHz		15.03	15.03	15.07	16.00	22.06	22.06	22.07	24.50	24.50
HSPA Subnet-1		14.01	14.04	14.03	20.00	20.00	22.02	22.27	22.24	22.40	HSPA Subnet-1		14.01	14.01	14.03	16.00	22.06	22.06	22.07	24.50	24.50
HSPA Subnet-2		14.03	14.03	14.02	20.00	20.00	22.02	22.27	22.24	22.40	HSPA Subnet-2		14.03	14.03	14.03	16.00	22.06	22.06	22.07	24.50	24.50
HSPA Subnet-3		13.00	13.47	13.33	19.50	22.51	22.49	22.44	22.44	23.50	HSPA Subnet-3		13.00	13.47	13.33	19.50	22.51	22.49	22.44	22.44	23.50
HSPA Subnet-4		14.53	14.48	14.28	19.50	22.52	22.49	22.44	22.44	23.50	HSPA Subnet-4		14.53	14.48	14.28	19.50	22.52	22.49	22.44	22.44	23.50
HSPA Subnet-5		14.06	14.09	14.08	20.00	22.00	22.00	22.00	22.00	23.50	HSPA Subnet-5		14.06	14.09	14.08	20.00	22.00	22.00	22.00	22.00	23.50
DC-HSDPA Subnet-1		14.57	14.58	14.59	20.00	22.08	22.07	22.06	22.06	24.00	DC-HSDPA Subnet-1		14.57	14.58	14.59	20.00	22.08	22.07	22.06	22.06	24.00
DC-HSDPA Subnet-2		14.53	14.41	14.46	19.50	22.41	22.41	22.40	22.39	23.50	DC-HSDPA Subnet-2		14.53	14.41	14.46	19.50	22.41	22.41	22.40	22.39	23.50
DC-HSDPA Subnet-3		13.54	13.34	13.34	19.50	22.41	22.41	22.41	22.41	23.50	DC-HSDPA Subnet-3		13.54	13.34	13.34	19.50	22.41	22.41	22.41	22.41	23.50
HSPA Subnet-1		14.08	14.08	14.04	20.00	22.06	22.07	22.07	22.09	24.00	HSPA Subnet-1		14.08	14.08	14.04	20.00	22.06	22.07	22.07	22.09	24.00
HSPA Subnet-2		14.08	14.08	14.04	20.00	22.06	22.07	22.07	22.09	24.00	<										



Band 2_Ant 13											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)			
Channel											
Frequency (MHz)				16870	16880	16900					
20	QPSK	1	0	15.40	15.38	15.37	16.5	0			
20	QPSK	1	49	15.50	15.50	15.42					
20	QPSK	1	99	15.28	15.44	15.30					
20	QPSK	50	0	15.40	15.38	15.37	16.5	0			
20	QPSK	50	24	15.31	15.27	15.32					
20	QPSK	50	50	15.17	15.40	15.25					
20	QPSK	100	0	15.38	15.38	15.29					
20	16QAM	1	0	15.31	15.52	15.30	16.5	0			
20	16QAM	1	49	15.48	15.50	15.39					
20	16QAM	1	99	15.16	15.37	15.24					
20	16QAM	50	0	15.38	15.46	15.27					
20	16QAM	50	24	15.28	15.30	15.25	16.5	0			
20	16QAM	50	50	15.16	15.39	15.19					
20	16QAM	100	0	15.38	15.41	15.28					
20	16QAM	100	0	15.37	15.42	15.28					
20	16QAM	1	49	15.47	15.45	15.39	16.5	0			
20	16QAM	1	99	15.21	15.42	15.27					
20	16QAM	50	0	15.39	15.41	15.27					
20	16QAM	50	24	15.28	15.23	15.27	16.5	0			
20	16QAM	50	50	15.16	15.38	15.27					
20	16QAM	100	0	15.29	15.38	15.29					
Channel				16875	16880	16900	Turn-up time (min)	MPE (dB)			
Frequency (MHz)				16875	16880	16900			16905	16915	16925
15	QPSK	1	0	15.39	15.38	15.34	16.5	0			
15	QPSK	1	37	15.41	15.49	15.33					
15	QPSK	1	74	15.28	15.35	15.23					
15	QPSK	36	0	15.38	15.46	15.31					
15	QPSK	36	20	15.28	15.17	15.31	16.5	0			
15	QPSK	36	50	15.14	15.30	15.17					
15	QPSK	75	0	15.36	15.44	15.21					
15	16QAM	1	0	15.30	15.28	15.26	16.5	0			
15	16QAM	1	37	15.41	15.43	15.27					
15	16QAM	1	74	15.15	15.39	15.24					
15	16QAM	36	0	15.37	15.43	15.17					
15	16QAM	36	20	15.27	15.14	15.31	16.5	0			
15	16QAM	36	50	15.11	15.29	15.11					
15	16QAM	75	0	15.28	15.38	15.23					
15	16QAM	75	0	15.28	15.38	15.23					
15	16QAM	1	37	15.40	15.39	15.22	16.5	0			
15	16QAM	1	74	15.10	15.38	15.19					
15	16QAM	36	0	15.29	15.39	15.24					
15	16QAM	36	20	15.19	15.16	15.25	16.5	0			
15	16QAM	36	50	15.04	15.22	15.26					
15	16QAM	36	75	15.33	15.39	15.26					
15	256QAM	1	0	15.37	15.41	15.26	16.5	0			
15	256QAM	1	37	15.43	15.45	15.28					
15	256QAM	1	74	15.13	15.39	15.26					
15	256QAM	36	0	15.34	15.38	15.25					
15	256QAM	36	20	15.24	15.15	15.28	16.5	0			
15	256QAM	36	50	14.99	15.13	15.19					
15	256QAM	75	0	15.20	15.29	15.28					
Channel				16880	16890	16900	Turn-up time (min)	MPE (dB)			
Frequency (MHz)				16880	16890	16900			16905	16915	16925
10	QPSK	1	0	15.31	15.34	15.30	16.5	0			
10	QPSK	1	25	15.44	15.48	15.31					
10	QPSK	1	50	15.23	15.43	15.30					
10	QPSK	26	0	15.35	15.40	15.27					
10	QPSK	26	12	15.23	15.28	15.28	16.5	0			
10	QPSK	26	25	15.10	15.38	15.27					
10	QPSK	50	0	15.30	15.44	15.21					
10	16QAM	1	0	15.30	15.30	15.25	16.5	0			
10	16QAM	1	25	15.42	15.47	15.21					
10	16QAM	1	49	15.10	15.30	15.25					
10	16QAM	26	0	15.33	15.41	15.18					
10	16QAM	26	12	15.22	15.13	15.15	16.5	0			
10	16QAM	26	25	15.08	15.27	15.18					
10	16QAM	50	0	15.33	15.33	15.24					
10	16QAM	50	0	15.34	15.27	15.22					
10	16QAM	1	25	15.43	15.34	15.22	16.5	0			
10	16QAM	1	49	15.17	15.38	15.23					
10	16QAM	26	0	15.38	15.38	15.29					
10	16QAM	26	12	15.22	15.25	15.21	16.5	0			
10	16QAM	26	25	15.03	15.25	15.11					
10	16QAM	50	0	15.30	15.35	15.21					
10	256QAM	1	0	15.31	15.34	15.25	16.5	0			
10	256QAM	1	25	15.39	15.44	15.26					
10	256QAM	1	49	15.19	15.41	15.23					
10	256QAM	26	0	15.38	15.37	15.28					
10	256QAM	26	12	15.05	15.17	15.15	16.5	0			
10	256QAM	26	25	15.21	15.29	15.28					
Channel				16885	16890	16900	Turn-up time (min)	MPE (dB)			
Frequency (MHz)				16885	16890	16900			16905	16915	16925
5	QPSK	1	0	15.31	15.27	15.30	16.5	0			
5	QPSK	1	12	15.41	15.51	15.30					
5	QPSK	1	24	15.16	15.43	15.22					
5	QPSK	12	0	15.31	15.47	15.28					
5	QPSK	12	7	15.23	15.18	15.25	16.5	0			
5	QPSK	12	13	15.11	15.37	15.18					
5	QPSK	25	0	15.36	15.38	15.29					
5	16QAM	1	0	15.23	15.24	15.24	16.5	0			
5	16QAM	1	12	15.36	15.48	15.29					
5	16QAM	1	24	15.14	15.27	15.19					
5	16QAM	12	0	15.38	15.40	15.26					
5	16QAM	12	7	15.19	15.10	15.24	16.5	0			
5	16QAM	12	13	15.11	15.24	15.18					
5	16QAM	25	0	15.29	15.32	15.19					
5	16QAM	25	0	15.30	15.28	15.21					
5	16QAM	1	12	15.40	15.39	15.25	16.5	0			
5	16QAM	1	24	15.12	15.28	15.23					
5	16QAM	12	0	15.38	15.39	15.24					
5	16QAM	12	7	15.22	15.14	15.22	16.5	0			
5	16QAM	12	13	15.10	15.28	15.25					
5	16QAM	25	0	15.31	15.35	15.20					
5	16QAM	25	0	15.32	15.40	15.22					
5	16QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	0	15.32	15.40	15.21					
5	256QAM	1	12	15.43	15.45	15.28					
5	256QAM	1	24	15.13	15.35	15.20					
5	256QAM	12	0	15.38	15.43	15.28	16.5	0			
5	256QAM	1	12	15.43	15.45	15.28					
5	256QAM	1	24	15.14	15.36	15.21					
5	256QAM	12	0	15.38	15.38	15.29					
5	256QAM	12	7	15.29	15.19	15.22	16.5	0			
5	256QAM	12	13	15.12	15.30	15.27					
5	256QAM	25	0	15.31	15.35	15.20					
5	256QAM	25	0	15.32	15.40	15.22					
5	256QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	24	15.14	15.36	15.21					
5	256QAM	12	0	15.38	15.38	15.29					
5	256QAM	12	7	15.29	15.19	15.22	16.5	0			
5	256QAM	12	13	15.12	15.30	15.27					
5	256QAM	25	0	15.31	15.35	15.20					
5	256QAM	25	0	15.32	15.40	15.22					
5	256QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	24	15.14	15.36	15.21					
5	256QAM	12	0	15.38	15.38	15.29					
5	256QAM	12	7	15.29	15.19	15.22	16.5	0			
5	256QAM	12	13	15.12	15.30	15.27					
5	256QAM	25	0	15.31	15.35	15.20					
5	256QAM	25	0	15.32	15.40	15.22					
5	256QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	24	15.14	15.36	15.21					
5	256QAM	12	0	15.38	15.38	15.29					
5	256QAM	12	7	15.29	15.19	15.22	16.5	0			
5	256QAM	12	13	15.12	15.30	15.27					
5	256QAM	25	0	15.31	15.35	15.20					
5	256QAM	25	0	15.32	15.40	15.22					
5	256QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	24	15.14	15.36	15.21					
5	256QAM	12	0	15.38	15.38	15.29					
5	256QAM	12	7	15.29	15.19	15.22	16.5	0			
5	256QAM	12	13	15.12	15.30	15.27					
5	256QAM	25	0	15.31	15.35	15.20					
5	256QAM	25	0	15.32	15.40	15.22					
5	256QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	24	15.14	15.36	15.21					
5	256QAM	12	0	15.38	15.38	15.29					
5	256QAM	12	7	15.29	15.19	15.22	16.5	0			
5	256QAM	12	13	15.12	15.30	15.27					
5	256QAM	25	0	15.31	15.35	15.20					
5	256QAM	25	0	15.32	15.40	15.22					
5	256QAM	1	12	15.43	15.43	15.27	16.5	0			
5	256QAM	1	24	15.14	15.36	15.21					



Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)				2000.0	2017.5	2035.0				
20	QPSK	1	0	19.23	19.29	19.21				
20	QPSK	1	49	19.24	19.33	19.30	21	0		
20	QPSK	1	99	19.22	19.25	19.29				
20	QPSK	50	0	19.18	19.18	19.20				
20	QPSK	50	24	19.17	19.18	19.19	21	0		
20	QPSK	50	49	19.18	19.14	19.15				
20	QPSK	100	0	19.20	19.21	19.13				
20	16QAM	1	0	19.19	19.27	19.19	21	0		
20	16QAM	1	49	19.17	19.20	19.21				
20	16QAM	50	0	19.13	19.16	19.17				
20	16QAM	50	24	19.13	19.24	19.26	21	0		
20	16QAM	50	49	19.14	19.20	19.23				
20	16QAM	100	0	19.07	19.09	19.10				
20	256QAM	1	49	17.27	17.36	17.28	19	2		
20	256QAM	1	99	17.36	17.46	17.44				
20	256QAM	50	0	17.32	17.38	17.32				
20	256QAM	50	24	17.34	17.37	17.39	19	2		
20	256QAM	50	49	17.38	17.39	17.33				
20	256QAM	100	0	17.25	17.37	17.25				
Channel										
Frequency (MHz)				2070.0	2077.5	2085.0	Turn-up time (min)	MPE (dB)		
				1777.5	1782.5	1747.5			1792.5	1800.0
15	QPSK	1	0	19.15	19.19	19.17				
15	QPSK	1	37	19.23	19.29	19.23	21	0		
15	QPSK	1	74	19.20	19.19	19.28				
15	QPSK	36	0	19.10	19.14	19.19				
15	QPSK	36	20	19.12	19.09	19.13	21	0		
15	QPSK	36	39	19.08	19.08	19.11				
15	QPSK	75	0	19.16	19.13	19.07				
15	16QAM	1	0	19.19	19.21	19.14	21	0		
15	16QAM	1	37	19.09	19.23	19.23				
15	16QAM	36	0	19.13	19.14	19.23	21	0		
15	16QAM	36	39	19.01	19.05	19.04				
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.05	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.20	19.21	21	0		
15	16QAM	36	0	19.08	19.05	19.16				
15	16QAM	36	39	19.02	19.05	19.04	21	0		
15	16QAM	75	0	19.17	19.06	19.01				
15	16QAM	1	37	19.10	19.17	19.08				
15	16QAM	1	37	19.14	19.2					



Band 7_Ant 31												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPE (dB)				
Channel												
Frequency (MHz)				2050	2100	2150						
20	QPSK	1	0	22.44	22.48	22.18						
20	QPSK	1	49	22.46	22.54	22.25	24	0				
20	QPSK	1	99	22.45	22.47	22.28						
20	QPSK	50	0	21.02	21.03	21.03						
20	QPSK	50	24	21.48	21.62	21.38	23	1				
20	QPSK	50	50	21.49	21.54	21.54						
20	QPSK	100	0	21.43	21.60	21.40						
20	16QAM	1	0	21.81	21.81	21.48	23	1				
20	16QAM	1	0	21.85	21.87	21.58						
20	16QAM	1	49	21.78	21.77	21.71						
20	16QAM	50	0	20.92	20.98	20.36						
20	16QAM	50	24	20.49	20.59	20.36	22	2				
20	16QAM	50	50	20.50	20.58	20.36						
20	16QAM	100	0	20.43	20.56	20.36						
20	64QAM	1	0	20.83	20.88	20.33						
20	64QAM	1	49	20.85	20.92	20.33	22	2				
20	64QAM	1	99	20.67	20.56	20.45						
20	64QAM	50	0	19.92	19.93	19.92						
20	64QAM	50	24	19.48	19.52	19.40	21	3				
20	64QAM	50	50	19.49	19.48	19.52						
20	64QAM	100	0	19.44	19.58	19.39						
20	256QAM	1	0	17.04	17.13	17.01						
20	256QAM	1	49	17.19	17.22	17.08	19	5				
20	256QAM	1	99	17.11	17.26	17.11						
20	256QAM	50	0	17.18	17.19	17.17						
20	256QAM	50	24	17.18	17.22	17.25	19	5				
20	256QAM	50	50	17.18	17.19	17.20						
20	256QAM	100	0	17.11	17.21	17.23						
Channel												
Frequency (MHz)				2050	2100	2150	Turn-up time (min)	MPE (dB)				
15	QPSK	1	0	22.28	22.18	22.03						
15	QPSK	1	37	22.42	22.38	22.10	24	0				
15	QPSK	1	74	22.33	22.27	22.11						
15	QPSK	36	0	21.43	21.30	21.21						
15	QPSK	36	20	21.40	21.28	21.22	23	1				
15	QPSK	36	50	21.35	21.28	21.22						
15	QPSK	75	0	21.36	21.28	21.21						
15	16QAM	1	0	21.81	21.63	21.27	23	1				
15	16QAM	1	37	21.68	21.64	21.63						
15	16QAM	1	74	21.69	21.62	21.54						
15	16QAM	36	0	20.42	20.35	20.19						
15	16QAM	36	20	20.35	20.28	20.24	22	2				
15	16QAM	36	39	20.35	20.25	20.12						
15	16QAM	75	0	20.34	20.28	20.19						
15	64QAM	1	0	20.37	20.33	20.33						
15	64QAM	1	37	20.46	20.44	20.34	22	2				
15	64QAM	1	74	20.48	20.48	20.39						
15	64QAM	36	0	19.38	19.32	19.19						
15	64QAM	36	20	19.32	19.27	19.22	21	3				
15	64QAM	36	39	19.34	19.25	19.12						
15	64QAM	75	0	19.34	19.28	19.19						
15	256QAM	1	0	17.03	17.10	17.07						
15	256QAM	1	37	17.19	17.22	17.08	19	5				
15	256QAM	1	74	17.05	17.27	17.05						
15	256QAM	36	0	17.04	17.08	17.04						
15	256QAM	36	20	17.07	17.10	17.08	19	5				
15	256QAM	36	39	17.12	17.19	17.12						
15	256QAM	75	0	17.08	17.12	17.22						
Channel												
Frequency (MHz)				2050	2100	2150	Turn-up time (min)	MPE (dB)				
10	QPSK	1	0	22.48	22.50	22.17						
10	QPSK	1	25	22.50	22.58	22.27	24	0				
10	QPSK	1	44	22.44	22.48	22.18						
10	QPSK	25	0	21.58	21.44	21.25						
10	QPSK	25	12	21.52	21.41	21.32	23	1				
10	QPSK	25	50	21.47	21.41	21.38						
10	QPSK	50	0	21.47	21.40	21.25						
10	16QAM	1	0	21.70	21.48	21.54	23	1				
10	16QAM	1	52	21.79	21.75	21.54						
10	16QAM	1	49	21.75	21.69	21.47						
10	16QAM	25	0	20.99	20.42	20.25						
10	16QAM	25	12	20.49	20.39	20.28	22	2				
10	16QAM	25	25	20.46	20.39	20.28						
10	16QAM	50	0	20.46	20.39	20.24						
10	64QAM	1	0	20.65	20.46	20.21						
10	64QAM	1	25	20.59	20.65	20.57	22	2				
10	64QAM	1	49	20.67	20.67	20.55						
10	64QAM	25	0	19.91	19.47	19.24						
10	64QAM	25	12	19.45	19.39	19.24	21	3				
10	64QAM	50	0	19.48	19.39	19.23						
10	256QAM	1	0	17.06	17.11	17.03						
10	256QAM	1	25	17.19	17.14	17.09	19	5				
10	256QAM	1	49	17.11	17.29	17.07						
10	256QAM	25	0	17.06	17.18	17.02						
10	256QAM	25	12	17.20	17.06	17.23	19	5				
10	256QAM	25	25	17.15	17.17	17.01						
10	256QAM	50	0	17.04	17.08	17.15						
10	256QAM	50	12	17.16	17.15	17.02	19	5				
10	256QAM	50	25	17.01	17.02	17.03						
10	256QAM	12	0	21.17	21.17	21.15						

Band 13_Ant 13													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MPE (dB)					
Channel 1							23.00						
Frequency (MHz)													
10	QPSK	1	0	22.87							24	0	
10	QPSK	1	25	23.08									
10	QPSK	1	49	22.78									
10	QPSK	25	0	21.89			23	1					
10	QPSK	25	12	21.84									
10	QPSK	25	25	21.84									
10	QPSK	50	0	21.85			23	1					
10	16QAM	1	0	22.26									
10	16QAM	1	25	21.99									
10	16QAM	1	49	22.54			22	2					
10	16QAM	25	0	20.96									
10	16QAM	25	12	20.95									
10	16QAM	25	25	20.95			22	2					
10	16QAM	50	0	20.82									
10	16QAM	1	0	21.27									
10	16QAM	1	25	21.25			22	2					
10	16QAM	1	49	21.17									
10	16QAM	25	0	19.98									
10	16QAM	25	12	19.87			21	3					
10	16QAM	25	25	19.90									
10	16QAM	50	0	19.81									
10	256QAM	1	0	17.86			19	5					
10	256QAM	1	25	18.02									
10	256QAM	1	49	17.96									
10	256QAM	25	0	17.98			19	5					
10	256QAM	25	12	17.94									
10	256QAM	25	25	17.99									
10	256QAM	50	0	17.92									
Channel 2											22.65	22.70	22.65
Frequency (MHz)											22.65	22.70	22.65
5	QPSK	1	0	22.88	22.87	22.73	24	0					
5	QPSK	1	12	22.89	22.91	22.86							
5	QPSK	1	24	22.78	22.81	22.87							
5	QPSK	12	0	21.88	21.90	21.82	23	1					
5	QPSK	12	7	21.89	21.93	21.87							
5	QPSK	12	13	21.96	21.99	21.99							
5	QPSK	25	0	21.92	21.94	21.85	23	1					
5	16QAM	1	0	22.31	22.08	22.11							
5	16QAM	1	12	22.46	21.95	22.11							
5	16QAM	1	24	22.14	22.00	22.19	22	2					
5	16QAM	12	0	20.88	21.64	21.00							
5	16QAM	12	7	20.94	21.01	20.93							
5	16QAM	12	13	21.07	20.89	20.81	22	2					
5	16QAM	25	0	20.91	20.86	20.76							
5	16QAM	25	0	20.94	21.15	21.08							
5	16QAM	1	12	20.87	21.05	20.92	22	2					
5	16QAM	1	24	21.14	21.07	21.12							
5	16QAM	12	7	19.90	19.94	19.78							
5	16QAM	12	13	19.89	19.93	19.96	21	3					
5	16QAM	25	0	19.90	19.95	19.78							
5	256QAM	1	0	17.79	17.80	17.67							
5	256QAM	1	12	17.87	18.02	17.85	19	5					
5	256QAM	1	24	17.88	17.97	17.88							
5	256QAM	12	0	17.87	17.83	17.77							
5	256QAM	12	7	17.84	17.83	17.88	19	5					
5	256QAM	12	13	17.85	17.86	17.73							
5	256QAM	25	0	17.90	17.91	17.87							

Band 13_Ant 31														
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MPE (dB)						
Channel 1														
Frequency (MHz)														
10	QPSK	1	0	22.53			24	0						
10	QPSK	1	25	22.67										
10	QPSK	1	49	22.52										
10	QPSK	25	0	21.68			23	1						
10	QPSK	25	12	21.62										
10	QPSK	25	25	21.61										
10	QPSK	50	0	21.71			23	1						
10	16QAM	1	0	22.09										
10	16QAM	1	25	21.68										
10	16QAM	1	49	22.18			22	2						
10	16QAM	25	0	20.61										
10	16QAM	25	12	20.61										
10	16QAM	25	25	20.79			22	2						
10	16QAM	50	0	20.65										
10	16QAM	1	0	21.09										
10	16QAM	1	25	21.41			22	2						
10	16QAM	1	49	20.95										
10	16QAM	25	0	19.87										
10	16QAM	25	12	19.71			21	3						
10	16QAM	25	25	19.82										
10	16QAM	50	0	19.83										
10	256QAM	1	0	17.77			19	5						
10	256QAM	1	25	17.77										
10	256QAM	1	49	17.76										
10	256QAM	1	25	17.76			19	5						
10	256QAM	25	0	17.79										
10	256QAM	25	12	17.81										
10	256QAM	25	25	17.78										
Channel 2														
Frequency (MHz)														
5	QPSK	1	0	22.27	22.50	22.49	24	0						
5	QPSK	1	12	22.39	22.64	22.58								
5	QPSK	1	24	22.33	22.55	22.45								
5	QPSK	12	0	21.40	21.59	21.58	23	1						
5	QPSK	12	7	21.41	21.66	21.67								
5	QPSK	12	13	21.43	21.48	21.81								
5	QPSK	25	0	21.39	21.62	21.58	23	1						
5	16QAM	1	0	21.97	21.92	21.96								
5	16QAM	1	12	21.87	21.10	21.81								
5	16QAM	1	24	21.67	21.73	21.99	22	2						
5	16QAM	12	0	20.43	20.51	20.66								
5	16QAM	12	7	20.42	20.44	20.72								
5	16QAM	12	13	20.47	20.76	20.78	22	2						
5	16QAM	25	0	20.40	20.61	20.62								
5	16QAM	25	0	20.50	20.90	21.23								
5	16QAM	1	12	20.60	20.65	21.35	22	2						
5	16QAM	1	24	20.98	20.77	21.99								
5	16QAM	12	0	19.42	19.75	19.98								
5	16QAM	12	7	19.40	19.57	19.70	21	3						
5	16QAM	12	13	19.44	19.77	19.82								
5	16QAM	25	0	19.40	19.97	19.73								
5	256QAM	1	0	17.63	17.70	17.74	19	5						
5	256QAM	1	12	17.62	17.67	17.86								
5	256QAM	1	24	17.65	17.62	17.64								
5	256QAM	12	0	17.66	17.70	17.67	19	5						
5	256QAM	12	7	17.72	17.73	17.73								
5	256QAM	12	13	17.64	17.57	17.48	19	5						
5	256QAM	25	0	17.51	17.62	17.61								

Band 26_Ant 13												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time [sec]	MPE [dB]				
Channel				B21.5		B21.5	B21.5					
Frequency [MHz]				B21.5		B21.5	B21.5					
15	QPSK	1	0	18.79	18.94	18.87	20.5	0				
15	QPSK	1	37	18.86	18.95	18.98		0				
15	QPSK	1	74	18.81	18.83	18.79		0				
15	QPSK	36	0	18.83	18.92	18.95		0				
15	QPSK	36	39	18.74	18.80	18.84		0				
15	QPSK	75	0	18.75	18.89	18.86	20.5	0				
15	16QAM	1	0	18.82	18.95	18.89		0				
15	16QAM	1	37	18.81	18.96	18.91		0				
15	16QAM	1	74	18.83	18.96	18.91		0				
15	16QAM	36	0	18.82	18.91	18.91		0				
15	16QAM	36	20	18.81	18.90	18.92	20.5	0				
15	16QAM	36	39	18.80	18.95	18.92		0				
15	16QAM	75	0	18.84	18.94	18.88		0				
15	64QAM	1	0	18.93	18.98	18.97		0				
15	64QAM	1	37	18.74	18.95	18.94		0				
15	64QAM	1	74	18.80	18.95	18.87	20.5	0				
15	64QAM	36	0	18.80	18.90	18.90		0				
15	64QAM	36	20	18.80	18.91	18.92		0				
15	64QAM	36	39	18.82	18.97	18.77		0				
15	64QAM	75	0	18.79	18.97	18.88		0				
15	256QAM	1	0	18.94	18.94	18.94	20	0.5				
15	256QAM	1	37	18.90	18.91	18.92		0				
15	256QAM	1	74	18.92	18.92	18.93		0				
15	256QAM	36	0	18.93	18.97	18.95		0				
15	256QAM	36	20	18.95	18.99	18.94		0				
15	256QAM	36	39	18.92	18.93	18.94	20	0.5				
15	256QAM	75	0	18.83	18.92	18.87		0				
Channel				B21.5		B21.5		B21.5				
Frequency [MHz]				B21.5		B21.5	B21.5					
10	QPSK	1	0	18.89	18.97	18.91	20.5	0				
10	QPSK	1	25	18.88	18.99	18.93		0				
10	QPSK	1	49	18.77	18.83	18.83		0				
10	QPSK	25	0	18.80	18.99	18.90		0				
10	QPSK	25	12	18.72	18.94	18.73		0				
10	QPSK	25	25	18.71	18.93	18.82	20.5	0				
10	QPSK	50	0	18.72	18.93	18.82		0				
10	16QAM	1	0	18.75	18.97	18.72		0				
10	16QAM	1	25	18.73	18.95	18.75		0				
10	16QAM	1	49	18.73	18.91	18.77		0				
10	16QAM	25	0	18.74	18.98	18.75	20.5	0				
10	16QAM	25	12	18.74	18.97	18.88		0				
10	16QAM	25	25	18.76	18.90	18.74		0				
10	16QAM	50	0	18.78	18.93	18.84		0				
10	64QAM	1	0	18.78	18.88	18.84		0				
10	64QAM	1	25	18.86	18.92	18.78	20.5	0				
10	64QAM	1	49	18.76	18.93	18.78		0				
10	64QAM	25	0	18.78	18.95	18.75		0				
10	64QAM	25	12	18.75	18.97	18.81		0				
10	64QAM	25	25	18.76	18.88	18.78		0				
10	64QAM	50	0	18.77	18.88	18.78	20	0.5				
10	256QAM	1	0	18.90	18.95	18.90		0				
10	256QAM	1	25	18.91	18.79	18.83		0				
10	256QAM	1	49	18.80	18.93	18.85		0				
10	256QAM	25	0	18.91	18.94	18.85		0				
10	256QAM	25	12	18.94	18.91	18.84	20	0.5				
10	256QAM	25	25	18.89	18.97	18.96		0				
10	256QAM	50	0	18.74	18.87	18.77		0				
Channel				B21.5		B21.5	B21.5					
Frequency [MHz]				B21.5		B21.5	B21.5					
5	QPSK	1	0	18.71	18.85	18.81	20.5	0				
5	QPSK	1	12	18.79	18.88	18.85		0				
5	QPSK	1	24	18.74	18.84	18.79		0				
5	QPSK	12	0	18.81	18.92	18.78		0				
5	QPSK	12	7	18.76	18.96	18.74		0				
5	QPSK	12	13	18.66	18.93	18.75	20.5	0				
5	QPSK	25	0	18.66	18.94	18.78		0				
5	16QAM	1	0	18.76	18.91	18.78		0				
5	16QAM	1	12	18.77	18.90	18.79		0				
5	16QAM	1	24	18.72	18.92	18.74		0				
5	16QAM	12	0	18.80	18.90	18.78	20.5	0				
5	16QAM	12	7	18.80	18.95	18.81		0				
5	16QAM	12	13	18.75	18.94	18.78		0				
5	16QAM	25	0	18.79	18.89	18.81		0				
5	64QAM	1	0	18.77	18.89	18.84		0				
5	64QAM	1	12	18.87	18.95	18.84	20.5	0				
5	64QAM	1	24	18.76	18.89	18.81		0				
5	64QAM	12	0	18.80	18.93	18.78		0				
5	64QAM	12	7	18.77	18.92	18.74		0				
5	64QAM	12	13	18.72	18.93	18.78		0				
5	256QAM	1	0	18.82	18.99	18.81	20	0.5				
5	256QAM	1	12	18.87	18.79	18.91		0				
5	256QAM	1	24	18.87	18.90	18.93		0				
5	256QAM	12	0	18.89	18.97	18.81		0				
5	256QAM	12	7	18.87	18.90	18.81		0				
5	256QAM	12	13	18.86	18.90	18.85	20	0.5				
5	256QAM	12	25	18.85	18.95	18.95		0				
5	256QAM	25	0	18.77	18.89	18.73		0				
Channel				B21.5		B21.5	B21.5					
Frequency [MHz]				B21.5		B21.5	B21.5					
3	QPSK	1	0	18.72	18.88	18.78	20.5	0				
3	QPSK	1	8	18.79	18.91	18.78		0				
3	QPSK	1	14	18.75	18.83	18.83		0				
3	QPSK	8	0	18.83	18.96	18.77		0				
3	QPSK	8	4	18.75	18.94	18.73		0				
3	QPSK	8	7	18.73	18.96	18.79	20.5	0				
3	QPSK	15	0	18.69	18.96	18.77		0				
3	16QAM	1	0	18.77	18.91	18.79		0				
3	16QAM	1	8	18.80	18.94	18.77		0				
3	16QAM	1	14	18.81	18.90	18.77		0				
3	16QAM	8	0	18.79	18.95	18.78	20.5	0				
3	16QAM	8	4	18.76	18.89	18.81		0				
3	16QAM	8	7	18.74	18.88	18.78		0				
3	16QAM	15	0	18.80	18.87	18.82		0				
3	64QAM	1	0	18.74	18.94	18.77		0				
3	64QAM	1	8	18.72	18.88	18.78	20.5	0				
3	64QAM	1	14	18.77	18.95	18.80		0				
3	64QAM	8	0	18.78	18.95	18.78		0				
3	64QAM	8	4	18.78	18.92	18.78		0				
3	64QAM	8	7	18.76	18.87	18.88		0				
3	64QAM	15	0	18.79	18.92	18.85	20	0.5				
3	256QAM	1	0	18.81	18.96	18.82		0				
3	256QAM	1	8	18.89	18.99	18.96		0				
3	256QAM	1	14	18.84	18.97	18.94		0				
3	256QAM	8	0	18.82	18.96	18.87	20	0.5				
3	256QAM	8	4	18.81	18.93	18.87		0				
3	256QAM	8	7	18.79	18.88	18.89		0				
3	256QAM	15	0	18.68	18.96	18.73	20	0.5				
Channel				B21.5		B21.5		B21.5				
Frequency [MHz]				B21.5		B21.5		B21.5				
1.4	QPSK	1	0	18.72	18.88	18.78	20.5	0				
1.4	QPSK	1	3	18.84	18.97	18.85		0				
1.4	QPSK	1	5	18.78	18.87	18.78		0				
1.4	QPSK	1	8	18.71	18.88	18.63		0				
1.4	QPSK	1	11	18.71	18.93	18.68		0				
1.4	QPSK	3	0	18.68	18.90	18.74	20.5	0				
1.4	QPSK	3	3	18.77	18.92	18.79		0				
1.4	16QAM	1	0	18.76	18.95	18.78		0				
1.4	16QAM	1	3	18.71	18.93	18.76		0				
1.4	16QAM	1	5	18.61	18.90	18.77		0				
1.4	16QAM	3	0	18.81	18.91	18.81	20.5	0				
1.4	16QAM	3	3	18.77	18.92	18.79		0				
1.4	16QAM	3	5	18.71	18.90	18.77		0				
1.4	16QAM	6	0	18.80	18.94	18.85		0				
1.4	16QAM	6	3	18.76	18.89	18.80		0				
1.4	16QAM	6	5	18.76	18.91	18.82	20.5	0				
1.4	16QAM	6	8	18.74	18.92	18.77		0				
1.4	16QAM	6	11	18.76	18.90	18.77		0				
1.4	256QAM	1	0	18.89	18.89	18.89		0				
1.4	256QAM	1	3	18.93	18.94	18.94		0				
1.4	256QAM	3	0	18.91	18.96	18.82	20	0.5				
1.4	256QAM	3	3	18.94	18.88	18.73		0				
1.4	256QAM	3	5	18.80	18.98	18.75		0				
1.4	256QAM	6	0	18.88	18.96	18.75	20	0.5				

Band 66_Ant 31														
WV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power High Ch./ Freq.	Power High Ch./ Freq.	Time-use int (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
130272 130272 130272														
20	QPSK	1	0	22.97	22.97	22.99	24.5	0						
20	QPSK	1	49	23.02	23.04	23.01								
20	QPSK	1	99	22.97	23.01	23.06								
20	QPSK	50	0	21.97	22.06	22.01								
20	QPSK	50	24	21.99	22.10	21.99	23.5	1						
20	QPSK	50	50	21.92	22.02	21.99								
20	HQAM	1	0	22.33	22.37	22.34								
20	HQAM	1	49	22.27	22.28	22.35								
20	HQAM	1	99	22.21	22.26	22.21	23.5	1						
20	HQAM	50	0	20.98	21.01	20.99								
20	HQAM	50	24	21.03	21.05	21.06								
20	HQAM	50	50	20.97	21.04	20.96								
20	HQAM	100	0	20.97	21.04	20.96	22.5	2						
20	HQAM	1	0	21.27	21.27	21.32								
20	HQAM	1	49	21.17	21.32	21.24								
20	HQAM	1	99	21.21	21.20	21.30								
20	HQAM	50	0	19.99	20.02	20.00	21.5	3						
20	HQAM	50	24	20.01	20.07	20.05								
20	HQAM	50	50	20.01	20.01	20.03								
20	HQAM	100	0	19.99	20.02	19.99								
20	HQAM	1	0	17.69	17.79	17.77	19.5	5						
20	HQAM	1	49	17.85	17.87	17.74								
20	HQAM	1	99	17.85	17.82	17.73								
20	HQAM	50	0	17.63	17.77	17.72								
20	HQAM	50	24	17.67	17.73	17.79								
20	HQAM	50	50	17.72	17.83	17.83								
20	HQAM	100	0	17.74	17.85	17.79								
Channel														
Frequency (MHz)														
130247 130272 130287														
15	QPSK	1	0	22.87	22.79	22.92	24.5	0						
15	QPSK	1	37	23.01	23.02	22.90								
15	QPSK	1	74	22.83	22.94	22.78								
15	QPSK	36	0	21.89	21.89	21.91								
15	QPSK	36	20	21.83	21.85	21.89	23.5	1						
15	QPSK	36	39	21.85	21.92	21.81								
15	QPSK	75	0	21.83	21.87	21.88								
15	HQAM	1	0	21.85	22.17	22.16								
15	HQAM	1	37	21.82	22.28	22.37	23.5	1						
15	HQAM	1	74	21.96	22.25	22.37								
15	HQAM	36	0	20.95	20.77	20.82								
15	HQAM	36	20	20.84	20.80	20.81								
15	HQAM	36	39	20.82	20.90	20.93	22.5	2						
15	HQAM	75	0	20.87	20.72	20.78								
15	HQAM	1	0	20.99	20.92	20.96								
15	HQAM	1	37	21.22	21.14	20.85								
15	HQAM	1	74	20.77	20.85	20.99	22.5	2						
15	HQAM	1	99	19.85	19.85	19.89								
15	HQAM	36	20	19.87	19.85	19.84								
15	HQAM	36	39	19.76	19.86	19.89								
15	HQAM	75	0	19.82	19.75	19.84	19.5	5						
15	HQAM	1	0	17.64	17.77	17.70								
15	HQAM	1	37	17.85	17.75	17.73								
15	HQAM	1	74	17.75	17.73	17.74								
15	HQAM	36	0	17.62	17.72	17.69								
15	HQAM	36	20	17.59	17.68	17.76								
15	HQAM	36	39	17.65	17.77	17.76								
Channel														
Frequency (MHz)														
130202 130272 130287														
15	QPSK	1	0	22.87	22.99	23.03	24.5	0						
15	QPSK	1	25	22.96	23.01	22.95								
15	QPSK	1	49	23.00	23.07	23.05								
15	QPSK	25	0	22.01	21.90	22.01								
15	QPSK	25	12	22.03	21.85	22.10	23.5	1						
15	QPSK	25	24	22.02	22.02	22.05								
15	QPSK	50	0	21.99	21.93	21.98								
15	HQAM	1	0	22.32	21.97	22.51								
15	HQAM	1	25	21.84	22.32	22.33	23.5	1						
15	HQAM	1	49	21.86	22.38	22.33								
15	HQAM	25	0	21.88	21.96	21.95								
15	HQAM	25	12	21.01	20.97	21.13								
15	HQAM	25	25	20.99	21.09	20.97	22.5	2						
15	HQAM	50	0	20.98	20.89	20.90								
15	HQAM	1	0	21.34	21.47	21.08								
15	HQAM	1	25	21.41	21.20	21.25								
15	HQAM	1	49	21.01	21.12	21.34	22.5	2						
15	HQAM	25	0	19.97	19.96	19.90								
15	HQAM	25	12	20.09	19.94	20.19								
15	HQAM	25	25	20.01	19.97	20.01								
15	HQAM	50	0	19.99	19.94	19.91	21.5	3						
15	HQAM	1	0	17.61	17.71	17.62								
15	HQAM	1	49	17.75	17.69	17.62								
15	HQAM	25	0	17.59	17.73	17.70								
15	HQAM	25	12	17.65	17.74	17.76	19.5	5						
15	HQAM	25	25	17.71	17.80	17.69								
15	HQAM	50	0	17.63	17.70	17.66								
Channel														
Frequency (MHz)														
130167 130272 130287														
15	QPSK	1	0	22.87	22.79	22.92	24.5	0						
15	QPSK	1	12	22.77	22.86	22.85								
15	QPSK	1	24	22.86	22.88	22.89								
15	QPSK	12	0	21.95	21.88	22.08								
15	QPSK	12	7	22.01	22.04	22.08	23.5	1						
15	QPSK	12	13	21.85	22.01	22.02								
15	QPSK	25	0	22.00	21.87	22.04								
15	HQAM	1	0	22.34	22.38	22.55								
15	HQAM	1	12	22.35	21.94	22.25	23.5	1						
15	HQAM	1	24	21.90	22.11	22.05								
15	HQAM	12	0	20.95	20.94	21.03								
15	HQAM	12	7	21.03	21.01	21.05								
15	HQAM	12	13	20.94	20.97	21.07	22.5	2						
15	HQAM	25	0	20.94	20.93	21.02								
15	HQAM	1	0	21.62	21.09	21.08								
15	HQAM	1	12	21.09	20.79	21.20								
15	HQAM	1	24	21.12	21.12	21.25	22.5	2						
15	HQAM	12	0	19.91	19.83	19.81								
15	HQAM	12	7	19.94	19.98	20.11								
15	HQAM	12	13	19.85	19.99	20.04								
15	HQAM	25	0	20.92	19.87	19.99	21.5	3						
15	HQAM	1	0	17.69	17.76	17.74								
15	HQAM	1	12	17.7			19.5	5						
15	HQAM	1	24	17.7										
15	HQAM	12	0	17.69	17.67	17.76								
15	HQAM	12	7	17.65	17.77	17.76								
15	HQAM	12	13	17.74	17.73	17.74								
15	HQAM	25	0	17.62	17.72	17.69								
Channel														
Frequency (MHz)														
130167 130272 130287														
15	QPSK	1	0	22.87	22.81	22.81	24.5	0						
15	QPSK	1	14	22.93	22.79	22.87								
15	QPSK	1	28	22.93	22.79	22.87								
15	QPSK	8	0	22.05	21.98	22.03								
15	QPSK	8	7	22.00	21.94	21.94	23.5	1						
15	QPSK	8	14	22.00	21.98	22.03								
15	HQAM	1	0	22.32	22.45	22.45								
15	HQAM	1	8	21.96	22.40	22.53								
15	HQAM	8	0	21.97	22.73	22.80	23.5	1						
15	HQAM	8	7	21.97	22.73	22.80								
15	HQAM	8	14	21.97	22.73	22.80								
15	HQAM	8	21	21.97	22.73	22.80								
15	HQAM	8	4	20.95	21.13	21.11	22.5	2						
15	HQAM	8	11	20.95	21.13	21.11								
15	HQAM	16	0	21.02	20.90	21.01								
15	HQAM	1	0	21.98	22.08	22.01								
15	HQAM	8	0	21.98	22.08	22.01	22.5	2						
15	HQAM	8	7	21.98	22.08	22.01								
15	HQAM	1	14	21.80	21.77	21.02								
15	HQAM	1	28	21.80	21.77	21.02								
15	HQAM	8	0	20.90	20.96	21.04	21.5	3						
15	HQAM	8	7	20.90	20.96	21.04								
15	HQAM	8	14	20.90	20.96	21.04								
15	HQAM	8	21	20.90	20.96	21.04								
15	HQAM	16	0	21.02	20.90	21.01	21.5	3						
15	HQAM	1	0	21.98	22.08	22.01								
15	HQAM	8	0	21.98	22.08	22.01								
15	HQAM	8	7	21.98	22.08	22.01								
15	HQAM	8	14	21.80	21.77	21.02	21.5	3						
15	HQAM	8	21	21.80	21.77	21.02								
15	HQAM	1	0	20.90	20.96	21.04								
15	HQAM	1	7	20.90	20.96	21.04								
15	HQAM	8	0	19.94	19.96	20.02	21.5	3						
15	HQAM	8	7	19.94	19.96	20.02								
15	HQAM	8	14	19.94	19.96	20.02								
15	HQAM	8	21	19.94	19.96	20.02								
15	HQAM	1	0	17.85	17.87	17.77	19.5	5						
15	HQAM	1	7	17.82	17.74	17.98								
15	HQAM	1	14	17.82	17.78	17.91								
15	HQAM	1	21	17.82	17.78	17.91								
15	HQAM	3	0	17.87	17.74	17.75	19.5	5						
15	HQAM	3	7	17.87	17.86	17.77								
15	HQAM	3	14	17.87	17.86	17.77								
15	HQAM	3	21	17.87	17.86	17.77								

Band 38_Ant 13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mids Ch./Freq.	Power High Ch./Freq.	Turn-up Invl (dB)	MPR (dB)				
Channel												
Frequency (MHz)				37850	38000	38150						
20	QPSK	1	0	14.19	14.38	14.34			15.5	0		
20	QPSK	1	49	14.20	14.58	14.40						
20	QPSK	1	99	14.10	14.32	14.33						
20	QPSK	50	24	14.11	14.44	14.28						
20	QPSK	50	50	14.24	14.50	14.31						
20	QPSK	100	0	14.09	14.50	14.28			15.5	0		
20	16QAM	1	0	14.13	14.48	14.40						
20	16QAM	1	49	14.11	14.40	14.30						
20	16QAM	1	99	14.18	14.48	14.38						
20	16QAM	50	0	14.16	14.50	14.30						
20	16QAM	50	24	14.07	14.48	14.30			15.5	0		
20	16QAM	50	50	14.21	14.51	14.36						
20	16QAM	100	0	14.20	14.45	14.43						
20	16QAM	1	0	14.17	14.49	14.41						
20	64QAM	1	99	14.09	14.39	14.42						
20	64QAM	50	0	14.07	14.48	14.34			15.5	0		
20	64QAM	50	24	14.26	14.41	14.30						
20	64QAM	50	50	14.08	14.50	14.35						
20	64QAM	100	0	14.20	14.45	14.43						
20	256QAM	1	49	14.22	14.56	14.25						
20	256QAM	1	99	14.24	14.53	14.36			15.5	0		
20	256QAM	50	0	14.08	14.51	14.37						
20	256QAM	50	24	14.17	14.41	14.30						
20	256QAM	50	50	14.12	14.48	14.32						
20	256QAM	100	0	14.24	14.41	14.34						
Channel												
Frequency (MHz)				37825	38000	38175	Turn-up Invl (dB)	MPR (dB)				
16	QPSK	1	0	14.12	14.38	14.43			15.5	0		
16	QPSK	1	37	14.17	14.42	14.39						
16	QPSK	1	74	14.24	14.44	14.33						
16	QPSK	36	0	14.09	14.38	14.34						
16	QPSK	36	20	14.15	14.48	14.29						
16	QPSK	36	36	14.09	14.41	14.38			15.5	0		
16	QPSK	75	0	14.23	14.55	14.29						
16	16QAM	1	0	14.07	14.56	14.38						
16	16QAM	1	37	14.07	14.39	14.31						
16	16QAM	1	74	14.09	14.38	14.32						
16	16QAM	36	0	14.10	14.54	14.40			15.5	0		
16	16QAM	36	20	14.11	14.50	14.32						
16	16QAM	36	36	14.24	14.49	14.29						
16	16QAM	75	0	14.14	14.44	14.24						
16	16QAM	1	0	14.17	14.44	14.28						
16	64QAM	1	37	14.09	14.54	14.28			15.5	0		
16	64QAM	1	74	14.16	14.49	14.29						
16	64QAM	36	0	14.20	14.44	14.30						
16	64QAM	36	20	14.19	14.53	14.28						
16	64QAM	36	36	14.21	14.50	14.41						
16	256QAM	1	0	14.20	14.49	14.24			15.5	0		
16	256QAM	1	37	14.18	14.53	14.26						
16	256QAM	1	74	14.14	14.44	14.41						
16	256QAM	36	0	14.25	14.45	14.32						
16	256QAM	36	20	14.21	14.41	14.38						
16	256QAM	36	36	14.20	14.42	14.24			15.5	0		
16	256QAM	75	0	14.08	14.56	14.33						
Channel												
Frequency (MHz)				37875	38000	38200	Turn-up Invl (dB)	MPR (dB)				
10	QPSK	1	0	14.15	14.52	14.27			15.5	0		
10	QPSK	1	25	14.07	14.53	14.37						
10	QPSK	1	49	14.17	14.57	14.32						
10	QPSK	25	0	14.07	14.44	14.43						
10	QPSK	25	12	14.20	14.41	14.29						
10	QPSK	25	25	14.14	14.44	14.30			15.5	0		
10	QPSK	50	0	14.19	14.52	14.32						
10	16QAM	1	0	14.25	14.40	14.41						
10	16QAM	1	25	14.10	14.42	14.40						
10	16QAM	1	49	14.10	14.48	14.35						
10	16QAM	25	0	14.23	14.51	14.27			15.5	0		
10	16QAM	25	12	14.13	14.41	14.27						
10	16QAM	25	25	14.17	14.48	14.33						
10	16QAM	50	0	14.07	14.48	14.29						
10	16QAM	1	0	14.19	14.41	14.34						
10	64QAM	1	25	14.07	14.50	14.35			15.5	0		
10	64QAM	1	49	14.22	14.37	14.36						
10	64QAM	25	0	14.19	14.39	14.28						
10	64QAM	25	12	14.21	14.45	14.40						
10	64QAM	25	25	14.07	14.55	14.24						
10	256QAM	1	0	14.10	14.53	14.25			15.5	0		
10	256QAM	1	25	14.23	14.49	14.31						
10	256QAM	1	49	14.20	14.48	14.38						
10	256QAM	25	0	14.21	14.58	14.28						
10	256QAM	25	12	14.09	14.57	14.31						
10	256QAM	25	25	14.15	14.46	14.30			15.5	0		
10	256QAM	50	0	14.07	14.44	14.35						
Channel												
Frequency (MHz)				37775	38000	38225	Turn-up Invl (dB)	MPR (dB)				
5	QPSK	1	0	14.11	14.41	14.32			15.5	0		
5	QPSK	1	12	14.19	14.49	14.29						
5	QPSK	1	24	14.07	14.40	14.30						
5	QPSK	12	0	14.20	14.41	14.30						
5	QPSK	12	7	14.12	14.51	14.37						
5	QPSK	12	13	14.13	14.48	14.24			15.5	0		
5	QPSK	25	0	14.09	14.40	14.42						
5	16QAM	1	0	14.19	14.55	14.35						
5	16QAM	1	12	14.17	14.47	14.29						
5	16QAM	1	24	14.24	14.55	14.31						
5	16QAM	12	0	14.21	14.52	14.35			15.5	0		
5	16QAM	12	7	14.11	14.38	14.33						
5	16QAM	12	13	14.10	14.42	14.34						
5	16QAM	25	0	14.16	14.49	14.37						
5	64QAM	1	0	14.14	14.42	14.38						
5	64QAM	1	12	14.26	14.48	14.38			15.5	0		
5	64QAM	1	24	14.13	14.56	14.25						
5	64QAM	12	0	14.20	14.39	14.28						
5	64QAM	12	7	14.13	14.58	14.40						
5	64QAM	12	13	14.25	14.55	14.24						
5	64QAM	25	0	14.12	14.48	14.37			15.5	0		
5	256QAM	1	0	14.23	14.53	14.40						
5	256QAM	1	12	14.09	14.59	14.36						
5	256QAM	1	24	14.14	14.50	14.24						
5	256QAM	12	0	14.08	14.46	14.32						
5	256QAM	12	7	14.14	14.46	14.32			15.5	0		
5	256QAM	12	13	14.19	14.51	14.34						
5	256QAM	25	0	14.16	14.46	14.28						

Band 38_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mids Ch./Freq.	Power High Ch./Freq.	Turn-up Invl (dB)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38050	38150				
20	QPSK	1	0	23.15	23.23	23.25	25	0		
20	QPSK	1	49	23.40	23.53	23.38				
20	QPSK	1	99	23.30	23.27	23.33				
20	QPSK	50	24	22.32	22.47	22.33				
20	QPSK	50	50	22.37	22.40	22.41				
20	QPSK	100	0	22.38	22.51	22.38	24	1		
20	16QAM	1	0	22.30	22.48	22.47				
20	16QAM	1	49	22.21	22.58	22.52				
20	16QAM	50	0	21.33	21.50	21.32				
20	16QAM	50	24	21.55	21.51	21.46	23	2		
20	16QAM	50	50	21.55	21.51	21.46				
20	16QAM	100	0	21.37	21.50	21.36				
20	16QAM	100	24	21.17	21.84	21.15				
20	16QAM	1	0	21.17	21.84	21.15	23	2		
20	16QAM	1	49	21.42	21.55	21.47				
20	16QAM	1	99	21.31	21.35	21.48				
20	16QAM	50	0	20.43	20.50	20.41				
20	16QAM	50	24	20.52	20.55	20.52	22	3		
20	16QAM	50	50	20.36	20.43	20.43				
20	16QAM	100	0	20.38	20.47	20.32				
20	16QAM	100	24	20.18	20.33	20.21				
20	25QAM	1	49	18.08	18.18	18.13	20	5		
20	25QAM	1	99	18.00	18.14	18.04				
20	25QAM	50	0	18.24	18.21	18.24				
20	25QAM	50	24	18.04	18.16	18.03				
20	25QAM	50	50	18.07	18.17	18.05	20	5		
20	25QAM	100	0	18.07	18.10	18.09				
20	25QAM	100	24	18.00	18.09	18.02				
20	25QAM	100	50	18.00	18.09	18.02				
Channel										
Frequency (MHz)				38725	38850	38175	Turn-up Invl (dB)	MPR (dB)		
15	QPSK	1	0	23.75	23.81	23.79	25	0		
15	QPSK	1	37	23.17	23.21	23.21				
15	QPSK	1	74	23.21	23.23	23.23				
15	QPSK	50	0	22.28	22.35	22.43				
15	QPSK	50	24	22.27	22.35	22.35				
15	QPSK	50	36	22.23	22.32	22.48	24	1		
15	QPSK	100	0	22.34	22.34	22.32				
15	16QAM	1	0	22.18	22.18	22.08				
15	16QAM	1	37	22.26	22.55	22.47				
15	16QAM	1	74	22.28	22.19	22.23	23	2		
15	16QAM	50	0	21.25	21.27	21.27				
15	16QAM	50	24	21.21	21.28	21.44				
15	16QAM	50	36	21.21	21.28	21.44				
15	16QAM	75	0	21.09	21.18	21.38	23	2		
15	16QAM	1	0	21.34	21.37	21.36				
15	16QAM	1	37	21.27	21.28	21.28				
15	16QAM	1	74	21.26	21.30	21.18				
15	16QAM	50	0	20.19	20.29	20.34	20	5		
15	16QAM	50	24	20.20	20.30	20.25				
15	16QAM	50	36	20.23	20.28	20.37				
15	16QAM	75	0	20.25	20.28	20.35				
15	25QAM	1	37	18.02	18.04	18.01	20	5		
15	25QAM	1	74	18.05	18.13	18.02				
15	25QAM	50	0	18.09	18.09	18.05				
15	25QAM	50	24	18.02	18.08	18.09				
15	25QAM	50	36	18.07	18.10	18.09	20	5		
15	25QAM	100	0	18.12	18.10	18.08				
15	25QAM	100	24	18.00	18.09	18.02				
15	25QAM	100	36	18.00	18.09	18.02				
Channel										
Frequency (MHz)				38760	38860	38860	Turn-up Invl (dB)	MPR (dB)		
10	QPSK	1	0	23.75	23.95	24.15	25	0		
10	QPSK	1	25	23.21	23.26	23.33				
10	QPSK	1	25	23.21	23.26	23.33				
10	QPSK	1	49	23.13	23.32	23.40				
10	QPSK	1	49	23.17	23.33	23.40				
10	QPSK	25	12	22.14	22.25	22.44	24	1		
10	QPSK	25	12	22.15	22.30	22.23				
10	QPSK	25	12	22.15	22.33	22.23				
10	QPSK	25	12	22.15	22.33	22.23				
10	16QAM	1	0	22.50	22.38	22.22	24	1		
10	16QAM	1	25	22.44	22.59	22.66				
10	16QAM	1	25	22.44	22.59	22.66				
10	16QAM	25	12	21.24	21.24	21.28				
10	16QAM	25	12	21.20	21.30	21.36	23	2		
10	16QAM	25	12	21.21	21.32	21.31				
10	16QAM	50	0	21.08	21.29	21.43				
10	16QAM	1	0	21.23	21.21	21.43				
10	16QAM	1	25	21.21	21.32	21.31	23	2		
10	16QAM	1	49	21.03	21.16	21.43				
10	16QAM	25	0	20.26	20.31	20.35				
10	16QAM	25	0	20.23	20.30	20.35				
10	16QAM	50	0	20.23	20.27	20.34	20	5		
10	16QAM	50	0	20.23	20.27	20.34				
10	25QAM	1	25	18.09	18.14	18.15				
10	25QAM	1	25	18.05	18.03	18.04				
10	25QAM	25	12	18.08	18.08	18.04	20	5		
10	25QAM	25	12	18.05	18.13	18.02				
10	25QAM	25	12	18.04	18.04	18.04				
10	25QAM	25	12	18.04	18.04	18.04				
Channel										
Frequency (MHz)				39775	39865	39925	Turn-up Invl (dB)	MPR (dB)		
5	QPSK	1	0	23.75	23.95	24.15	25	0		
5	QPSK	1	12	23.38	23.48	23.44				
5	QPSK	1	24	23.25	23.38	23.44				
5	QPSK	1	48	23.41	23.45	23.41				
5	QPSK	12	24	22.40	22.40	22.57				
5	QPSK	12	13	22.36	22.38	22.55	24	1		
5	QPSK	12	13	22.37	22.47	22.47				
5	16QAM	1	0	22.30	22.29	22.42				
5	16QAM	1	12	22.47	22.38	22.73				
5	16QAM	1	24	21.39	21.41	21.41	23	2		
5	16QAM	12	0	21.27	21.55	21.60				
5	16QAM	12	7	21.46	21.35	21.43				
5	16QAM	12	13	21.38	21.41	21.41				
5	16QAM	25	0	21.46	21.34	21.57	23	2		
5	16QAM	25	0	21.40	21.04	21.31				
5	16QAM	25	12	21.12	21.12	21.12				
5	16QAM	1	24	21.23	21.30	21.23				
5	16QAM	12	0	20.33	20.40	20.48	22	3		
5	16QAM	25	0	20.44	20.49	20.52				
5	16QAM	12	13	20.31	20.39	20.53				
5	16QAM	25	0	20.43	20.31	20.39				
5	25QAM	1	12	18.02	18.14	18.14	20	5		
5	25QAM	1	24	18.05	18.05	18.08				
5	25QAM	12	7	18.24	18.24	18.24				
5	25QAM	12	7	18.09	18.07	18.08				
5	25QAM	12	13	18.02	18.07	18.16	20	5		
5	25QAM	12	13	18.02	18.07	18.16				
5	25QAM	12	13	18.02	18.07	18.16				
5	25QAM	12	13	18.02	18.07	18.16				



Band 41_Ant 13												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power Power Low High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-on Time (ms)	MPR (dB)		
Channel												
Frequency (MHz)				39700	40100	40500	41000	41400				
20	QPSK	1	0	14.24	14.17	14.43	14.39	14.25	15.5	0		
20	QPSK	1	48	14.34	14.30	14.59	14.46	14.42				
20	QPSK	1	96	14.33	14.30	14.46	14.33	14.33				
20	QPSK	50	0	14.30	14.35	14.58	14.42	14.38				
20	QPSK	50	24	14.14	14.20	14.40	14.35	14.37				
20	QPSK	50	50	14.17	14.28	14.44	14.40	14.32	15.5	0		
20	QPSK	100	0	14.22	14.12	14.38	14.30	14.23				
20	16QAM	1	0	14.16	14.27	14.40	14.44	14.39				
20	16QAM	1	48	14.14	14.24	14.45	14.32	14.33				
20	16QAM	1	96	14.16	14.20	14.46	14.28	14.22				
20	16QAM	50	0	14.20	14.13	14.42	14.37	14.23	15.5	0		
20	16QAM	50	24	14.32	14.19	14.44	14.40	14.32				
20	16QAM	50	50	14.32	14.17	14.54	14.38	14.22				
20	16QAM	100	0	14.21	14.23	14.39	14.29	14.31				
20	64QAM	1	0	14.24	14.20	14.56	14.30	14.21				
20	64QAM	1	48	14.14	14.19	14.54	14.30	14.29	15.5	0		
20	64QAM	1	96	14.32	14.17	14.52	14.36	14.32				
20	64QAM	50	0	14.15	14.13	14.49	14.27	14.34				
20	64QAM	50	24	14.31	14.19	14.58	14.34	14.26				
20	64QAM	50	50	14.16	14.22	14.63	14.41	14.23				
20	256QAM	1	0	14.28	14.29	14.65	14.51	14.32	15.5	0		
20	256QAM	1	48	14.25	14.14	14.47	14.40	14.34				
20	256QAM	1	96	14.22	14.10	14.44	14.38	14.35				
20	256QAM	50	0	14.18	14.18	14.38	14.33	14.38				
20	256QAM	50	0	14.14	14.13	14.42	14.39	14.35				
Channel				39700	40100	40500	41000	41400	Turn-on Time (ms)	MPR (dB)		
Frequency (MHz)				2500	2549.5	2599	2649.5	2699				
15	QPSK	1	0	14.31	14.29	14.56	14.29	14.32	15.5	0		
15	QPSK	1	37	14.18	14.15	14.46	14.29	14.27				
15	QPSK	1	74	14.31	14.23	14.53	14.40	14.37				
15	QPSK	36	0	14.33	14.18	14.37	14.27	14.24				
15	QPSK	36	20	14.15	14.12	14.63	14.26	14.27				
15	QPSK	36	37	14.27	14.12	14.57	14.43	14.37	15.5	0		
15	QPSK	75	0	14.19	14.10	14.57	14.43	14.36				
15	16QAM	1	0	14.20	14.26	14.47	14.28	14.40				
15	16QAM	1	37	14.14	14.18	14.46	14.33	14.38				
15	16QAM	1	74	14.27	14.13	14.54	14.29	14.34				
15	16QAM	36	0	14.32	14.12	14.40	14.42	14.37	15.5	0		
15	16QAM	36	20	14.30	14.29	14.55	14.33	14.35				
15	16QAM	36	37	14.17	14.15	14.50	14.34	14.24				
15	16QAM	75	0	14.16	14.27	14.39	14.44	14.38				
15	64QAM	1	0	14.30	14.28	14.58	14.40	14.32				
15	64QAM	1	37	14.29	14.29	14.57	14.39	14.29	15.5	0		
15	64QAM	1	74	14.24	14.16	14.56	14.33	14.24				
15	64QAM	36	0	14.27	14.12	14.57	14.42	14.37				
15	64QAM	36	20	14.29	14.22	14.40	14.44	14.37				
15	64QAM	36	37	14.30	14.17	14.43	14.36	14.31				
15	256QAM	1	0	14.32	14.12	14.57	14.41	14.24	15.5	0		
15	256QAM	1	37	14.20	14.15	14.56	14.43	14.37				
15	256QAM	1	74	14.30	14.23	14.39	14.31	14.28				
15	256QAM	36	0	14.23	14.14	14.51	14.39	14.29				
15	256QAM	36	20	14.26	14.10	14.46	14.42	14.36				
15	256QAM	36	37	14.29	14.15	14.55	14.30	14.38	15.5	0		
15	256QAM	75	0	14.18	14.18	14.48	14.26	14.38				
Channel				39700	40100	40500	41000	41400	Turn-on Time (ms)		MPR (dB)	
Frequency (MHz)				2500	2549.5	2599	2649.5	2699				
10	QPSK	1	0	14.24	14.27	14.41	14.31	14.29	15.5	0		
10	QPSK	1	25	14.26	14.12	14.47	14.32	14.31				
10	QPSK	1	48	14.30	14.16	14.48	14.37	14.33				
10	QPSK	25	0	14.14	14.16	14.48	14.37	14.33				
10	QPSK	25	12	14.29	14.14	14.57	14.31	14.28				
10	QPSK	25	12	14.16	14.22	14.45	14.37	14.37	15.5	0		
10	QPSK	50	0	14.25	14.15	14.48	14.32	14.24				
10	16QAM	1	0	14.21	14.16	14.47	14.31	14.40				
10	16QAM	1	25	14.16	14.21	14.47	14.36	14.27				
10	16QAM	1	48	14.24	14.27	14.39	14.43	14.35				
10	16QAM	25	0	14.20	14.20	14.46	14.27	14.35	15.5	0		
10	16QAM	25	12	14.29	14.18	14.55	14.42	14.28				
10	16QAM	25	25	14.23	14.16	14.52	14.35	14.33				
10	16QAM	50	0	14.19	14.26	14.49	14.39	14.39				
10	16QAM	1	0	14.22	14.15	14.51	14.37	14.21				
10	64QAM	1	25	14.27	14.21	14.38	14.25	14.27	15.5	0		
10	64QAM	1	48	14.29	14.19	14.56	14.44	14.40				
10	64QAM	25	0	14.24	14.28	14.38	14.27	14.38				
10	64QAM	25	12	14.28	14.28	14.54	14.36	14.32	15.5	0		
10	64QAM	25	25	14.22	14.20	14.47	14.38	14.34				
10	64QAM	50	0	14.24	14.24	14.41	14.39	14.44				
10	64QAM	50	12	14.15	14.12	14.45	14.34	14.35				
10	256QAM	1	0	14.25	14.12	14.49	14.44	14.39				
10	256QAM	1	25	14.25	14.25	14.38	14.34	14.39	15.5	0		
10	256QAM	1	48	14.19	14.23	14.52	14.39	14.29				
10	256QAM	1	96	14.26	14.15	14.49	14.38	14.37				
10	256QAM	25	0	14.26	14.15	14.48	14.38	14.46				
10	256QAM	25	12	14.18	14.27	14.45	14.44	14.28				
10	256QAM	50	0	14.25	14.16	14.49	14.37	14.37	15.5	0		
10	256QAM	50	12	14.26	14.14	14.48	14.42	14.35				
10	256QAM	12	7	14.19	14.26	14.47	14.26	14.30				
10	256QAM	12	13	14.21	14.19	14.34	14.40	14.36				
10	256QAM	12	19	14.23	14.22	14.32	14.42	14.44				



Reduced Power Mode for DSIS

GSM850_Ant 13										GSM850_Ant 31									
TX Channel		Burst Average Power (dBm)			Turn-up Limit		Transmit Average Power (dBm)			TX Channel		Burst Average Power (dBm)			Turn-up Limit		Transmit Average Power (dBm)		
Frequency (MHz)		502.2	506.4	508.8	502.2		506.4	508.8	510.8	Frequency (MHz)		502.2	506.4	508.8	502.2		506.4	508.8	510.8
GSM 1 Tx unit		26.68	26.69	26.71	26.68		18.88	18.88	19.71	GSM 1 Tx unit		32.19	32.24	32.13	32.19		23.19	23.24	23.13
GPRS 1 Tx unit		25.72	26.61	26.78	26.60		19.72	19.81	19.78	GPRS 1 Tx unit		32.13	32.21	32.17	32.13		23.13	23.21	23.17
GPRS 2 Tx unit		25.44	25.61	25.43	27.60		19.44	19.61	19.49	GPRS 2 Tx unit		29.64	29.86	29.83	31.80		23.64	23.86	23.63
GPRS 3 Tx unit		23.42	23.63	23.61	25.30		19.16	19.21	19.26	GPRS 3 Tx unit		21.97	22.06	22.12	23.90		23.71	23.86	23.54
GPRS 4 Tx unit		22.54	22.60	22.48	24.00		19.54	19.60	19.48	GPRS 4 Tx unit		26.51	26.64	26.69	28.20		23.51	23.64	23.69
EDGE(GSM850) 1 Tx unit		26.52	26.73	26.81	30.00		19.52	19.73	19.61	EDGE(GSM850) 1 Tx unit		32.09	32.08	32.12	35.80		23.09	23.08	23.12
EDGE(GSM850) 2 Tx unit		23.33	23.32	23.40	27.00		19.33	19.32	19.40	EDGE(GSM850) 2 Tx unit		29.38	29.61	29.70	31.50		23.38	23.61	23.70
EDGE(GSM850) 3 Tx unit		23.42	23.62	23.49	25.20		19.16	19.36	19.23	EDGE(GSM850) 3 Tx unit		27.91	27.93	28.05	29.80		23.95	23.97	23.79
EDGE(GSM850) 4 Tx unit		22.38	22.47	22.42	24.00		19.38	19.47	19.42	EDGE(GSM850) 4 Tx unit		26.38	26.52	26.54	28.20		23.38	23.52	23.54
EDGE(GPRS) 1 Tx unit		26.12	26.31	26.26	27.60		17.12	17.31	17.28	EDGE(GPRS) 1 Tx unit		25.61	25.60	25.66	27.60		19.61	19.63	19.66
EDGE(GPRS) 2 Tx unit		24.35	24.54	24.47	28.00		19.35	19.54	19.47	EDGE(GPRS) 2 Tx unit		24.01	23.95	24.03	26.00		19.01	17.95	18.03
EDGE(GPRS) 3 Tx unit		22.48	22.66	22.62	24.00		19.22	19.43	19.36	EDGE(GPRS) 3 Tx unit		21.91	21.89	21.94	23.90		17.65	17.66	18.24
EDGE(GPRS) 4 Tx unit		21.94	21.93	21.16	22.50		19.04	19.21	19.16	EDGE(GPRS) 4 Tx unit		20.57	20.46	20.61	22.00		17.57	17.48	17.61

GSM850_Ant 32										GSM850_Ant 33									
TX Channel		Burst Average Power (dBm)			Turn-up Limit		Transmit Average Power (dBm)			TX Channel		Burst Average Power (dBm)			Turn-up Limit		Transmit Average Power (dBm)		
Frequency (MHz)		1052.2	1056.4	1058.8	1052.2		1056.4	1058.8	1060.8	Frequency (MHz)		1052.2	1056.4	1058.8	1052.2		1056.4	1058.8	1060.8
GSM 1 Tx unit		26.24	26.25	26.32	26.24		19.04	19.05	19.12	GSM 1 Tx unit		26.48	26.83	26.71	28.80		22.48	23.83	23.21
GPRS 1 Tx unit		26.24	26.87	26.75	28.00		20.04	20.64	20.87	GPRS 1 Tx unit		26.24	26.87	26.75	28.00		20.04	20.67	20.75
GPRS 2 Tx unit		27.12	27.46	27.14	29.00		21.12	21.46	21.14	GPRS 2 Tx unit		27.12	27.46	27.14	29.00		21.12	21.46	21.14
GPRS 3 Tx unit		25.26	25.51	25.36	27.00		21.00	21.25	21.10	GPRS 3 Tx unit		25.26	25.51	25.36	27.00		21.00	21.25	21.10
GPRS 4 Tx unit		23.83	24.07	23.92	25.80		20.83	21.07	20.92	GPRS 4 Tx unit		23.83	24.07	23.92	25.80		20.83	21.07	20.92
EDGE(GSM850) 1 Tx unit		29.48	29.79	29.60	31.00		20.48	20.79	20.60	EDGE(GSM850) 1 Tx unit		29.48	29.79	29.60	31.00		20.48	20.79	20.60
EDGE(GSM850) 2 Tx unit		27.03	27.46	27.07	29.00		21.03	21.46	21.07	EDGE(GSM850) 2 Tx unit		27.03	27.46	27.07	29.00		21.03	21.46	21.07
EDGE(GSM850) 3 Tx unit		25.17	25.43	25.21	27.00		20.91	21.17	20.95	EDGE(GSM850) 3 Tx unit		25.17	25.43	25.21	27.00		20.91	21.17	20.95
EDGE(GSM850) 4 Tx unit		23.56	24.06	23.84	25.80		20.56	21.06	20.84	EDGE(GSM850) 4 Tx unit		23.56	24.06	23.84	25.80		20.56	21.06	20.84
EDGE(GPRS) 1 Tx unit		25.01	25.05	25.20	26.80		19.01	19.06	19.26	EDGE(GPRS) 1 Tx unit		25.01	25.05	25.20	26.80		19.01	19.06	19.26
EDGE(GPRS) 2 Tx unit		23.47	23.44	23.69	26.80		17.47	17.44	17.69	EDGE(GPRS) 2 Tx unit		23.47	23.44	23.69	26.80		17.47	17.44	17.69
EDGE(GPRS) 3 Tx unit		21.45	21.43	21.67	23.00		17.19	17.17	17.41	EDGE(GPRS) 3 Tx unit		21.45	21.43	21.67	23.00		17.19	17.17	17.41
EDGE(GPRS) 4 Tx unit		19.91	19.85	20.22	21.00		16.91	16.85	17.22	EDGE(GPRS) 4 Tx unit		19.91	19.85	20.22	21.00		16.91	16.85	17.22

WCDMA V_Ant 13										WCDMA V_Ant 31									
TX Channel		Burst			Turn-up Limit		Burst			TX Channel		Burst			Turn-up Limit		Burst		
Frequency (MHz)		9692.4	9696	9698.8	9692.4		9696	9698.8	9699.6	Frequency (MHz)		1052.2	1056.4	1058.8	1052.2		1056.4	1058.8	1059.6
SCPP Rel 06		AMR 12.2kps	14.04	14.09	14.17	15.50		22.05	22.20	SCPP Rel 06		AMR 12.2kps	13.42	13.47	13.41	14.90		22.06	22.02
SCPP Rel 07		AMR 12.2kps	14.11	14.22	14.19	15.50		22.00	22.07	SCPP Rel 07		AMR 12.2kps	13.44	13.52	13.42	14.90		22.08	22.11
SCPP Rel 08		HS-PA Subcarriers 1	13.10	13.08	13.16	14.50		21.39	21.59	SCPP Rel 08		HS-PA Subcarriers 1	12.49	12.51	12.48	13.90		22.29	22.25
SCPP Rel 09		HS-PA Subcarriers 2	13.08	13.18	13.14	14.50		21.40	21.60	SCPP Rel 09		HS-PA Subcarriers 2	12.53	12.57	12.51	13.90		22.31	22.25
SCPP Rel 10		HS-PA Subcarriers 3	12.92	12.86	12.83	14.50		20.92	21.06	SCPP Rel 10		HS-PA Subcarriers 3	12.10	12.02	11.90	13.90		21.98	21.77
SCPP Rel 11		HS-PA Subcarriers 4	12.89	12.62	12.66	14.00		20.89	21.09	SCPP Rel 11		HS-PA Subcarriers 4	11.98	12.02	12.00	13.90		21.82	21.78
SCPP Rel 12		DC-HSPA Subcarriers 1	12.99	13.08	12.98	14.50		21.33	21.56	SCPP Rel 12		DC-HSPA Subcarriers 1	12.38	12.43	12.39	13.90		22.18	22.20
SCPP Rel 13		DC-HSPA Subcarriers 2	12.89	13.11	13.12	14.50		21.32	21.51	SCPP Rel 13		DC-HSPA Subcarriers 2	12.42	12.47	12.52	13.90		22.25	22.18
SCPP Rel 14		DC-HSPA Subcarriers 3	12.18	12.35	12.36	14.00		20.82	21.04	SCPP Rel 14		DC-HSPA Subcarriers 3	12.05	11.94	11.94	13.90		21.88	21.79
SCPP Rel 15		DC-HSPA Subcarriers 4	12.58	12.57	12.64	14.00		20.83	21.06	SCPP Rel 15		DC-HSPA Subcarriers 4	11.96	11.95	11.97	13.90		21.72	21.71
SCPP Rel 16		HELPA Subcarriers 1	13.10	13.13	13.17	14.50		21.40	21.64	SCPP Rel 16		HELPA Subcarriers 1	12.80	12.43	12.49	13.90		22.34	22.35
SCPP Rel 17		HELPA Subcarriers 2	11.12	11.09	11.20	12.50		19.41	19.52	SCPP Rel 17		HELPA Subcarriers 2	10.48	10.34	10.43	11.50		20.29	20.20
SCPP Rel 18		HELPA Subcarriers 3	12.71	12.72	12.70	13.50		20.37	20.56	SCPP Rel 18		HELPA Subcarriers 3	11.46	11.52	11.52	12.50		21.51	21.56
SCPP Rel 19		HELPA Subcarriers 4	13.10	13.14	13.24	12.50		19.41	19.52	SCPP Rel 19		HELPA Subcarriers 4	12.51	11.52	10.50	11.50		20.27	20.22
SCPP Rel 20		HELPA Subcarriers 5	13.17	13.14	13.28	14.50		21.50	21.70	SCPP Rel 20		HELPA Subcarriers 5	12.86	12.58	12.55	13.50		22.20	22.20
SCPP Rel 21		HS-PA (WCDMA) Subcarriers 1	13.55	13.56	13.55	15.00		19.86	20.00	SCPP Rel 21		HS-PA (WCDMA) Subcarriers 1	10.97	10.95	10.96	12.50		20.82	20.74



Band 2 Ant 13									
RF	Modulation	RB	Sub	Offset	Power Power Ch / Freq	Power Power Ch / Freq	Power Power Ch / Freq	Turn-up (dBm)	MPE (dB)
Channel									
18700 18800 18900									
20	QPSK	1	0		13.83	13.84	13.84		
20	QPSK	1	49		13.71	13.71	13.71	15	0
20	QPSK	1	99		13.68	13.64	13.64		
20	QPSK	50	0		13.62	13.62	13.62		
20	QPSK	50	24		13.52	13.52	13.52	15	0
20	QPSK	50	50		13.38	13.62	13.64		
20	QPSK	100	0		13.27	13.27	13.27		
20	16QAM	1	0		13.63	13.61	13.61		
20	16QAM	1	49		13.74	13.72	13.70	15	0
20	16QAM	1	99		13.63	13.43	13.58		
20	16QAM	50	0		13.62	13.62	13.62		
20	16QAM	50	24		13.65	13.68	13.61	15	0
20	16QAM	50	50		13.50	13.68	13.61		
20	16QAM	100	0		13.61	13.71	13.56		
20	16QAM	1	0		13.53	13.54	13.53		
20	16QAM	1	49		13.62	13.62	13.62	15	0
20	16QAM	1	99		13.57	13.58	13.51		
20	16QAM	50	0		13.54	13.65	13.56		
20	16QAM	50	24		13.62	13.63	13.62	15	0
20	16QAM	50	50		13.36	13.50	13.44		
20	16QAM	100	0		13.64	13.63	13.51		
20	16QAM	1	0		13.60	13.57	13.58		
20	16QAM	1	49		13.77	13.78	13.69	15	0
20	16QAM	1	99		13.51	13.72	13.57		
20	16QAM	50	0		13.62	13.62	13.62	15	0
20	16QAM	50	24		13.58	13.53	13.57		
20	16QAM	50	50		13.58	13.63	13.57	15	0
20	16QAM	100	0		13.38	13.68	13.50		
20	16QAM	100	0		13.68	13.68	13.59		
Channel									
18910 18950 19000									
15	QPSK	1	0		13.87	13.88	13.87		
15	QPSK	1	49		13.67	13.68	13.62		
15	QPSK	1	99		13.71	13.74	13.61	15	0
15	QPSK	1	74		13.56	13.64	13.58		
15	QPSK	25	0		13.64	13.62	13.62		
15	QPSK	25	12		13.50	13.48	13.48	15	0
15	QPSK	25	36		13.31	13.62	13.54		
15	QPSK	36	36		13.38	13.64	13.47		
15	QPSK	75	0		13.62	13.62	13.62		
15	16QAM	1	0		13.62	13.58	13.58		
15	16QAM	1	37		13.72	13.71	13.69	15	0
15	16QAM	1	74		13.62	13.62	13.62		
15	16QAM	25	0		13.64	13.78	13.49		
15	16QAM	36	36		13.52	13.41	13.45		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.53		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13.62	13.62	13.62	15	0
15	16QAM	1	74		13.48	13.61	13.48		
15	16QAM	25	0		13.52	13.69	13.58		
15	16QAM	36	36		13.62	13.62	13.62	15	0
15	16QAM	36	36		13.35	13.57	13.30		
15	16QAM	75	0		13.62	13.62	13.62	15	0
15	16QAM	75	0		13.65	13.68	13.51		
15	16QAM	1	0		13.57	13.62	13.57		
15	16QAM	1	37		13				

Band 2_Ant 31										
HW	Modulation	RB Size	PRB Offset	Power Class C/Freq	Power Class C/Freq	Power Class C/Freq	Turn-up rate (dB)	MPE (dB)		
Channel										
18700 18800 19100										
26	QPSK	1	0	22.28	22.31	22.28				
26	QPSK	1	99	22.29	22.43	22.38	24	0		
26	QPSK	50	74	22.29	22.60	21.91				
26	QPSK	50	74	21.42	21.48	21.42	23	1		
26	QPSK	50	50	21.42	21.50	21.48				
26	QPSK	1	0	21.03	21.81	21.60				
26	QPSK	1	49	21.64	21.77	21.78	23	1		
26	QPSK	1	99	21.68	21.99	21.83				
26	QPSK	50	24	20.45	20.59	20.50	22	2		
26	QPSK	50	74	20.45	20.59	20.50				
26	QPSK	100	0	20.48	20.43	20.44				
26	QPSK	1	0	20.78	20.59	20.81				
26	QPSK	1	99	20.78	20.59	20.81	22	2		
26	QPSK	1	99	20.77	20.74	20.53				
26	QPSK	50	0	19.44	19.52	19.33				
26	QPSK	50	50	19.44	19.52	19.44	21	3		
26	QPSK	100	0	19.47	19.52	19.47				
26	QPSK	1	49	17.42	17.51	17.43	19			
26	QPSK	1	99	17.41	17.43	17.37				
26	QPSK	50	24	17.42	17.48	17.42	19			
26	QPSK	50	50	17.44	17.42	17.48				
26	QPSK	50	50	17.34	17.44	17.38	19			
26	QPSK	100	0	17.38	17.42	17.38				
Channel										
18675 18690 18690 19005										
26	QPSK	1	0	22.28	22.24	22.28				
26	QPSK	1	99	22.31	22.36	22.37	24	0		
26	QPSK	1	74	22.38	22.30	22.31				
26	QPSK	50	24	21.29	21.35	21.38				
26	QPSK	50	74	21.34	21.42	21.38	23	1		
26	QPSK	30	30	21.36	21.49	21.39				
26	QPSK	79	0	21.62	21.64	21.63				
26	QPSK	1	0	21.48	21.71	21.60	23	1		
26	QPSK	1	97	21.46	21.77	21.69				
26	QPSK	1	99	21.46	21.69	21.69				
26	QPSK	30	0	20.25	20.33	20.45				
26	QPSK	30	20	20.44	20.51	20.48	22	2		
26	QPSK	30	20	20.44	20.51	20.48				
26	QPSK	79	0	20.39	20.32	20.32				
26	QPSK	1	0	20.39	20.48	20.75	22	2		
26	QPSK	1	99	20.39	20.48	20.75				
26	QPSK	1	74	20.59	20.67	20.81				
26	QPSK	30	0	19.29	19.44	19.27				
26	QPSK	30	20	19.41	19.38	19.38	21	3		
26	QPSK	30	99	19.41	19.50	19.33				
26	QPSK	79	0	19.35	19.39	19.35				
26	QPSK	79	0	19.35	19.42	19.35				
26	QPSK	1	97	17.43	17.53	17.37	19	5		
26	QPSK	1	74	17.35	17.48	17.33				
26	QPSK	50	24	17.42	17.48	17.41	19			
26	QPSK	50	24	17.39	17.3	17.38	19	5		
26	QPSK	50	30	17.37	17.40	17.35				
26	QPSK	50	30	17.32	17.43	17.33				
26	QPSK	100	0	17.38	17.42	17.38				
Channel										
18625 18690 18690 19075										
26	QPSK	1	0	22.27	22.19	22.28				
26	QPSK	1	99	22.27	22.38	22.32	24	0		
26	QPSK	1	49	22.39	22.37	22.33				
26	QPSK	20	0	21.23	21.39	21.38				
26	QPSK	20	0	21.38	21.42	21.42	23	1		
26	QPSK	20	25	21.23	21.38	21.43				
26	QPSK	50	0	21.36	21.30	21.33				
26	QPSK	50	49	21.62	21.71	21.62	23	1		
26	QPSK	1	25	21.50	21.75	21.67				
26	QPSK	20	0	20.53	20.72	20.61				
26	QPSK	20	12	20.38	20.37	20.48	22	2		
26	QPSK	50	0	20.38	20.38	20.39				
26	QPSK	1	0	20.68	20.75	20.58				
26	QPSK	1	99	20.68	20.75	20.58	22	2		
26	QPSK	1	49	20.59	20.62	20.67				
26	QPSK	20	0	19.38	19.24	19.42				
26	QPSK	20	0	19.41	19.41	19.41	21	3		
26	QPSK	20	25	19.38	19.33	19.50				
26	QPSK	50	0	19.39	19.27	19.38				
26	QPSK	50	24	17.42	17.48	17.42	19			
26	QPSK	1	25	17.38	17.42	17.48	19			
26	QPSK	1	49	17.40	17.45	17.35				
26	QPSK	50	24	17.42	17.48	17.42	19			
26	QPSK	50	25	17.38	17.42	17.48				
26	QPSK	20	12	17.40	17.35	17.47	19	5		
26	QPSK	20	25	17.32	17.43	17.33				
26	QPSK	100	0	17.38	17.42	17.38				
Channel										
18625 18690 18690 19075										
3	QPSK	1	0	22.27	22.19	22.28				
3	QPSK	1	99	22.27	22.38	22.32	24	0		
3	QPSK	1	24	22.31	22.37	22.31				
3	QPSK	12	0	21.29	21.40	21.35				
3	QPSK	12	0	21.45	21.48	21.45	23	1		
3	QPSK	12	13	21.30	21.45	21.45				
3	QPSK	20	0	21.62	21.62	21.62				
3	QPSK	20	0	21.62	21.62	21.62	23	1		
3	QPSK	12	24	21.32	21.65	21.62				
3	QPSK	12	24	21.32	21.65	21.62	22	2		
3	QPSK	12	7	20.35	20.41	20.48				
3	QPSK	20	0	20.38	20.39	20.42				
3	QPSK	1	0	20.68	20.75	20.53				
3	QPSK	1	99	20.68	20.75	20.53	22	2		
3	QPSK	1	24	20.55	20.75	20.64				
3	QPSK	12	0	19.34	19.17	19.38				
3	QPSK	12	0	19.34	19.34	19.34	21	3		
3	QPSK	12	13	19.38	19.41	19.68				
3	QPSK	20	0	19.46	19.33	19.34				
3	QPSK	20	0	19.46	19.42	19.42	19			
3	QPSK	1	12	17.35	17.47	17.39	19			
3	QPSK	1	24	17.35	17.33	17.38				
3	QPSK	12	7	17.35	17.33	17.37	19	5		
3	QPSK	12	7	17.35	17.32	17.34				
3	QPSK	12	13	17.25	17.37	17.34				
3	QPSK	100	0	17.42	17.41	17.41				
Channel										
18657 18690 18690 19005										
3	QPSK	1	0	22.27	22.19	22.28				
3	QPSK	1	99	22.27	22.38	22.32	24	0		
3	QPSK	1	14	22.32	22.32	22.33				
3	QPSK	8	0	21.29	21.43	21.40				
3	QPSK	8	0	21.38	21.43	21.43	23	1		
3	QPSK	16	0	21.22	21.41	21.42				
3	QPSK	16	0	21.43	21.55	21.52	23	1		
3	QPSK	8	8	21.58	21.81	21.81				
3	QPSK	1	8	21.49	21.74	21.71	23	1		
3	QPSK	1	14	21.65	21.74	21.77				
3	QPSK	1	14	21.38	21.47	21.63	23	1		
3	QPSK	8	4	20.46	20.37	20.51				
3	QPSK	8	4	20.46	20.37	20.51	22	2		
3	QPSK	16	0	20.46	20.37	20.51				
3	QPSK	16	0	20.45	20.41	20.37				
3	QPSK	1	0	20.71	20.79	20.69	22	2		
3	QPSK	1	14	20.71	20.79	20.69				
3	QPSK	1	14	20.56	20.84	20.55				
3	QPSK	8	0	19.34	19.21	19.42				
3	QPSK	8	0	19.34	19.34	19.34	21	3		
3	QPSK	8	7	19.39	19.44	19.51				
3	QPSK	16	0	19.48	19.27	19.41				
3	QPSK	16	0	19.48	19.47	19.47	19			
3	QPSK	8	8	17.42	17.42	17.48	19	5		
3	QPSK	1	14	17.39	17.41	17.38				
3	QPSK	8	4	17.42	17.42	17.42	19			
3	QPSK	8	4	17.41	17.41	17.38				
3	QPSK	8	7	17.32	17.43	17.35	19	5		
3	QPSK	100	0	17.42	17.42	17.42				
Channel										
18657 18690 18690 19005										
14	QPSK	1	0	22.26	22.27	22.29				
14	QPSK	1	99	22.26	22.31	22.29	24	0		
14	QPSK	1	6	22.34	22.17	22.27				
14	QPSK	1	6	22.34	22.33	22.33	23	1		
14	QPSK	3	3	22.28	22.27	22.27				
14	QPSK	6	0	21.31	21.39	21.30				
14	QPSK	6	0	21.48	21.79	21.71	23	1		
14	QPSK	3	3	21.56	21.72	21.75				
14	QPSK	1	14	21.81	21.82	21.87				
14	QPSK	1	6	21.38	21.78	21.68	23	1		
14	QPSK	3	1	21.54	21.68	21.68				
14	QPSK	6	0	20.46	20.74	21.04				
14	QPSK	6	0	20.68	20.79	20.54	22	2		
14	QPSK	3	3	20.68	20.79	20.54				
14	QPSK	6	0	20.59	20.59	20.64	22	2		
14	QPSK	3	0	20.61	20.72	20.47				
14	QPSK	6	0	20.67	20.67	20.67				

Band 4_Ant 13										
RW [MHz]	Modulation	RB Size	RF Offset	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Turn-on rate (dBm)	MPR [dB]	
Channel										
Channel				20050	20175	20250	20325	Turn-on rate (dBm)	MPR [dB]	
Frequency [MHz]				1720	1725	1730	1735			
20	QPSK	1	0	13.94	13.99	13.73	13.78	15.5	0	
30	QPSK	1	48	13.85	13.91	13.73	13.78	15.5	0	
40	QPSK	1	96	13.87	13.90	13.73	13.78	15.5	0	
50	QPSK	5	0	13.90	13.93	13.73	13.78	15.5	0	
60	QPSK	5	48	13.90	13.93	13.73	13.78	15.5	0	
70	QPSK	5	96	13.92	13.88	13.73	13.78	15.5	0	
80	QPSK	10	0	13.93	13.90	13.73	13.78	15.5	0	
90	QPSK	10	48	13.93	13.90	13.73	13.78	15.5	0	
100	QPSK	1	48	13.86	14.01	13.82	13.87	15.5	0	
110	QPSK	5	96	13.86	14.01	13.82	13.87	15.5	0	
120	QPSK	50	24	13.93	14.02	13.78	13.83	15.5	0	
130	QPSK	50	72	13.93	14.02	13.78	13.83	15.5	0	
140	QPSK	100	0	13.87	13.95	13.72	13.77	15.5	0	
150	QPSK	1	0	13.87	14.04	13.82	13.87	15.5	0	
160	QPSK	1	48	13.89	14.05	13.84	13.89	15.5	0	
170	QPSK	1	96	13.85	13.98	13.77	13.82	15.5	0	
180	QPSK	50	0	13.91	14.04	13.83	13.88	15.5	0	
190	QPSK	50	48	13.91	14.04	13.83	13.88	15.5	0	
200	QPSK	50	96	13.88	13.94	13.90	13.95	15.5	0	
210	QPSK	100	0	14.02	13.95	13.90	13.95	15.5	0	
220	QPSK	100	48	13.93	13.78	13.73	13.78	15.5	0	
230	QPSK	1	48	13.91	13.88	13.78	13.73	15.5	0	
240	QPSK	1	96	13.98	13.89	13.92	13.83	15.5	0	
250	QPSK	50	0	13.94	13.86	13.84	13.89	15.5	0	
260	QPSK	50	24	13.94	13.87	13.82	13.87	15.5	0	
270	QPSK	50	72	13.98	14.01	13.83	13.88	15.5	0	
280	QPSK	100	0	13.91	13.91	13.73	13.73	15.5	0	
290	QPSK	100	48	13.91	13.91	13.73	13.73	15.5	0	
Channel										
Channel				20050	20175	20250	20325	Turn-on rate (dBm)	MPR [dB]	
Frequency [MHz]				1717.5	1722.5	1727.5	1732.5			
10	QPSK	1	0	13.83	13.94	13.68	13.73	15.5	0	
15	QPSK	1	48	13.87	13.91	13.67	13.72	15.5	0	
15	QPSK	1	74	13.84	13.83	13.90	13.95	15.5	0	
15	QPSK	5	0	13.88	13.81	13.86	13.91	15.5	0	
15	QPSK	5	48	13.88	13.81	13.86	13.91	15.5	0	
15	QPSK	36	36	13.80	13.86	13.78	13.83	15.5	0	
15	QPSK	75	0	13.79	13.85	13.77	13.82	15.5	0	
15	QPSK	75	48	13.79	13.85	13.77	13.82	15.5	0	
15	QPSK	1	36	13.72	13.85	13.83	13.87	15.5	0	
15	QPSK	36	74	13.72	13.85	13.83	13.87	15.5	0	
15	QPSK	36	74	13.84	13.77	13.74	13.79	15.5	0	
15	QPSK	36	20	13.91	13.83	13.80		15.5	0	
15	QPSK	36	20	13.72	13.85	13.83	13.87	15.5	0	
15	QPSK	75	0	13.73	13.78	13.70	13.75	15.5	0	
15	QPSK	75	48	13.73	13.78	13.70	13.75	15.5	0	
15	QPSK	1	0	13.80	13.88	13.88	13.93	15.5	0	
15	QPSK	1	48	13.82	13.90	13.87	13.92	15.5	0	
15	QPSK	1	74	13.73	13.80	13.95	13.95	15.5	0	
15	QPSK	36	0	13.77	13.86	13.74	13.79	15.5	0	
15	QPSK	36	36	13.79	13.82	13.75	13.80	15.5	0	
15	QPSK	36	36	13.95	13.82	13.88	13.93	15.5	0	
15	QPSK	75	0	13.76	13.78	13.68	13.73	15.5	0	
15	QPSK	75	48	13.76	13.78	13.68	13.73	15.5	0	
15	QPSK	1	36	13.77	13.78	13.67	13.72	15.5	0	
15	QPSK	36	20	13.79	13.74	13.71		15.5	0	
15	QPSK	36	20	13.85	13.82	13.83	13.88	15.5	0	
15	QPSK	36	20	13.84	13.84	13.68	13.73	15.5	0	
Channel										
Channel				20050	20175	20250	20325	Turn-on rate (dBm)	MPR [dB]	
Frequency [MHz]				1715	1720	1725	1730			
10	QPSK	1	0	13.83	13.94	13.68	13.73	15.5	0	
15	QPSK	1	48	13.87	13.91	13.67	13.72	15.5	0	
15	QPSK	1	48	13.76	13.83	13.56	13.61	15.5	0	
15	QPSK	5	0	13.91	13.86	13.77	13.82	15.5	0	
15	QPSK	5	48	13.91	13.86	13.77	13.82	15.5	0	
15	QPSK	25	25	13.75	13.74	13.73	13.73	15.5	0	
15	QPSK	5	0	13.87	13.86	13.72	13.77	15.5	0	
15	QPSK	5	48	13.75	13.86	13.74	13.79	15.5	0	
15	QPSK	1	28	13.78	13.80	13.63	13.68	15.5	0	
15	QPSK	1	28	13.75	13.86	13.74	13.79	15.5	0	
15	QPSK	25	48	13.82	13.80	13.67	13.72	15.5	0	
15	QPSK	25	12	13.81	13.97	13.74	13.79	15.5	0	
15	QPSK	50	0	13.84	13.92	13.67	13.72	15.5	0	
15	QPSK	50	24	13.85	13.96	13.73	13.78	15.5	0	
15	QPSK	1	48	13.82	13.90	13.67	13.72	15.5	0	
15	QPSK	25	0	13.80	13.87	13.66	13.71	15.5	0	
15	QPSK	25	48	13.75	13.75	13.71	13.76	15.5	0	
15	QPSK	25	25	13.76	13.75	13.73	13.78	15.5	0	
15	QPSK	50	0	13.86	13.76	13.73	13.78	15.5	0	
15	QPSK	50	48	13.82	13.66	13.72	13.67	15.5	0	
15	QPSK	1	25	13.74	13.67	13.77	13.71	15.5	0	
15	QPSK	1	48	13.83	13.73	13.88	13.78	15.5	0	
15	QPSK	1	74	13.87	13.65	13.87	13.65	15.5	0	
15	QPSK	25	12	13.75	13.70	13.73	13.78	15.5	0	
15	QPSK	25	25	13.81	13.82	13.64	13.69	15.5	0	
15	QPSK	25	25	13.81	13.82	13.64	13.69	15.5	0	
Channel										
Channel				16975	17075	17205	17305	Turn-on rate (dBm)	MPR [dB]	
Frequency [MHz]				1712.5	1722.5	1732.5	1742.5			
3	QPSK	1	0	13.92	13.98	13.80	13.85	15.5	0	
3	QPSK	1	48	13.93	13.94	13.80	13.85	15.5	0	
3	QPSK	1	144	13.76	13.79	13.56	13.59	15.5	0	
3	QPSK	8	0	13.90	13.97	13.80	13.85	15.5	0	
3	QPSK	8	48	13.79	13.87	13.67	13.71	15.5	0	
3	QPSK	8	7	13.79	13.73	13.87	13.81	15.5	0	
3	QPSK	15	0	13.79	13.82	13.63	13.67	15.5	0	
3	QPSK	15	48	13.81	13.97	13.76	13.78	15.5	0	
3	QPSK	1	8	13.81	13.89	13.79	13.83	15.5	0	
3	QPSK	8	8	13.69	13.89	13.76	13.78	15.5	0	
3	QPSK	8	4	13.72	13.84	13.64	13.68	15.5	0	
3	QPSK	15	0	13.86	13.86	13.66	13.66	15.5	0	
3	QPSK	15	0	13.68	13.83	13.63	13.63	15.5	0	
3	QPSK	1	0	13.67	14.01	13.83	13.83	15.5	0	
3	QPSK	1	48	13.62	13.93	13.73	13.73	15.5	0	
3	QPSK	1	144	13.70	13.91	13.56	13.56	15.5	0	
3	QPSK	8	0	13.76	13.94	13.64	13.64	15.5	0	
3	QPSK	8	48	13.73	13.82	13.62	13.62	15.5	0	
3	QPSK	8	7	13.66	13.81	13.71	13.71	15.5	0	
3	QPSK	15	0	13.90	13.92	13.80	13.80	15.5	0	
3	QPSK	15	48	13.83	13.88	13.68	13.68	15.5	0	
3	QPSK	1	8	13.75	13.71	13.55	13.55	15.5	0	
3	QPSK	1	144	13.82	13.82	13.72	13.72	15.5	0	
3	QPSK	8	8	13.67	13.81	13.61	13.61	15.5	0	
3	QPSK	8	4	13.79	13.78	13.58	13.58	15.5	0	
3	QPSK	8	7	13.77	13.84	13.67	13.67	15.5	0	
3	QPSK	15	0	13.81	13.81	13.57	13.57	15.5	0	
Channel										
Channel				16967	17075	17205	17305	Turn-on rate (dBm)	MPR [dB]	
Frequency [MHz]				1710.7	1722.5	1734.3	1746.1			
1.4	QPSK	1	0	13.77	13.86	13.62	13.67	15.5	0	
1.4	QPSK	1	48	13.78	13.87	13.62	13.67	15.5	0	
1.4	QPSK	1	5	13.79	13.80	13.54	13.54	15.5	0	
1.4	QPSK	3	0	13.81	13.90	13.60	13.60	15.5	0	
1.4	QPSK	3	48	13.81	13.90	13.60	13.60	15.5	0	
1.4	QPSK	3	3	13.73	13.68	13.67	13.67	15.5	0	
1.4	QPSK	1	0	13.65	13.89	13.75	13.75	15.5	0	
1.4	QPSK	1	48	13.85	13.99	13.71	13.71	15.5	0	
1.4	QPSK	1	3	13.79	13.84	13.74	13.79	15.5	0	
1.4	QPSK	1	5	13.94	13.86	13.74	13.74	15.5	0	
1.4	QPSK	1	9	13.71	13.80	13.67	13.67	15.5	0	
1.4	QPSK	1	1	13.83	13.91	13.59	13.59	15.5	0	
1.4	QPSK	1	3	13.92	13.78	13.62	13.62	15.5	0	
1.4	QPSK	1	0	13.79	13.73	13.63	13.63	15.5	0	
1.4	QPSK	1	0	13.83	13.96	13.83	13.83	15.5	0	
1.4	QPSK	1	48	13.87	13.92	13.78	13.78	15.5	0	
1.4	QPSK	1	5	13.67	13.78	13.62	13.62	15.5	0	
1.4	QPSK	1	3	13.74	13.83	13.78				

Band 4_Ant 31											
RF [MHz]	Modulation	RB Size	RF Offset	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Turn-on time (μs)	MPE (dB)		
		Channel		20000	20175	20000	20175				
Frequency [MHz]											
20	QPSK	1	0	1720	1725.5	1745					
20	QPSK	1	0	23.03	22.94	23.01					
20	QPSK	1	99	23.03	22.95	22.99		24.5	0		
20	QPSK	1	99	22.97	22.94	22.91					
20	QPSK	50	0	22.03	22.03	22.03					
20	QPSK	50	50	21.98	22.08	21.99		23.5	1		
20	QPSK	50	0	22.02	22.02	22.02					
20	16QAM	1	0	22.21	22.21	22.19					
20	16QAM	1	49	22.41	22.26	22.33		23.5	1		
20	16QAM	1	49	22.35	22.21	22.21					
20	16QAM	50	0	21.07	21.02	21.01					
20	16QAM	50	24	20.96	21.04	21.12		22.5	2		
20	16QAM	50	24	21.00	21.00	21.00					
20	16QAM	100	0	20.99	20.99	20.92					
20	16QAM	1	0	21.20	21.16	21.27					
20	16QAM	1	99	21.20	21.17	21.27		23.5	2		
20	16QAM	1	99	21.16	21.17	21.27					
20	16QAM	50	0	20.99	20.97	20.97		21.5	3		
20	16QAM	50	0	20.96	20.91	20.99					
20	16QAM	50	50	21.00	21.05	21.03					
20	16QAM	1	49	17.82	17.91	17.83		19.5	5		
20	16QAM	1	99	18.01	18.02	17.95					
20	16QAM	50	0	17.83	17.86	17.83					
20	16QAM	50	24	18.00	18.05	18.03		19.5	5		
20	25QAM	1	0	15.85	15.85	15.85					
20	25QAM	1	99	15.78	15.78	15.83					
20	25QAM	50	0	17.89	17.89	17.83					
20	25QAM	50	24	17.89	17.89	17.83					
Channel											
		Channel		20026	20175	20026	20175	Turn-on time (μs)	MPE (dB)		
Frequency [MHz]											
15	QPSK	1	0	1717.5	1725.5	1747.5					
15	QPSK	1	0	22.79	22.81	22.87					
15	QPSK	1	99	22.81	22.80	22.84		24.5	0		
15	QPSK	1	74	22.78	22.81	22.86					
15	QPSK	1	99	21.80	21.87	21.91					
15	QPSK	36	20	21.86	21.87	21.91		23.5	1		
15	QPSK	36	36	21.89	21.92	21.96					
15	QPSK	75	0	21.90	21.83	21.81					
15	QPSK	75	0	21.87	21.88	21.81					
15	16QAM	1	0	21.83	21.83	21.81					
15	16QAM	1	37	21.83	22.28	22.20		23.5	1		
15	16QAM	1	37	21.83	21.83	21.81					
15	16QAM	36	0	20.81	20.88	20.84					
15	16QAM	36	36	20.85	20.90	20.93		22.5	2		
15	16QAM	36	36	20.85	20.85	20.85					
15	16QAM	75	0	20.96	21.06	21.03					
15	16QAM	75	0	20.96							
15	16QAM	1	0	21.12	21.10	21.17					
15	16QAM	1	49	21.12	21.11	21.17		23.5	2		
15	16QAM	1	49	20.99	21.36	21.25					
15	16QAM	25	0	19.80	19.85	19.80					
15	16QAM	25	0	19.80	19.80	19.80					
15	16QAM	25	24	19.92	20.02	20.10		21.5	3		
15	16QAM	50	0	20.01	20.05	20.04					
15	16QAM	50	0	20.01							
15	16QAM	50	24	19.92	20.02	20.10					
15	25QAM	1	0	17.76	17.87	17.74		19.5	5		
15	25QAM	1	49	18.00	17.99	17.84					
15	25QAM	1	49	17.99	17.99	17.84					
15	25QAM	36	20	17.88	17.88	17.84		19.5	5		
15	25QAM	36	36	17.88	17.88	17.84					
15	25QAM	75	0	17.88	17.88	17.84					
15	25QAM	75	0	17.88	17.88	17.84					
Channel											
		Channel		19976	20175	20026	20175	Turn-on time (μs)	MPE (dB)		
Frequency [MHz]											
8	QPSK	1	0	1712.5	1725.5	1750.5					
8	QPSK	1	0	23.15	22.98	23.20					
8	QPSK	1	24	23.09	23.05	23.11		24.5	0		
8	QPSK	12	0	21.88	21.99	22.15					
8	QPSK	12	0	21.88	21.99	22.15					
8	QPSK	12	13	21.88	22.12	22.11		23.5	1		
8	QPSK	12	0	21.87	22.07	22.07					
8	16QAM	1	0	22.40	22.40	22.41					
8	16QAM	1	12	22.37	22.49	22.41		23.5	1		
8	16QAM	12	0	21.04	21.13	21.13					
8	16QAM	12	7	21.07	21.14	21.24		22.5	2		
8	16QAM	12	13	21.07	21.14	21.24					
8	16QAM	15	0	20.99	20.91	21.08					
8	16QAM	1	0	21.22	21.17	21.33		23.5	2		
8	16QAM	1	13	21.22	21.17	21.33					
8	16QAM	1	24	21.39	21.04	21.25					
8	16QAM	12	0	20.07	19.91	20.04					
8	16QAM	12	13	20.08	20.08	20.08					
8	16QAM	12	13	20.16	20.04	20.16		21.5	3		
8	16QAM	25	0	20.08	20.03	20.11					
8	16QAM	25	0	20.08							
8	16QAM	25	12	17.78	17.90	17.73		19.5	5		
8	16QAM	1	24	18.00	18.05	17.91					
8	16QAM	12	0	18.00	18.00	18.00					
8	16QAM	12	7	18.01	18.08	18.08		19.5	5		
8	16QAM	12	13	17.87	17.75	17.88					
8	16QAM	25	0	17.78	17.88	17.87					
Channel											
		Channel		19965	20175	20026	20175	Turn-on time (μs)	MPE (dB)		
Frequency [MHz]											
3	QPSK	1	0	1710.5	1725.5	1750.5					
3	QPSK	1	0	23.00	22.91	22.92					
3	QPSK	1	23	22.93	22.90	22.93		24.5	0		
3	QPSK	1	14	22.92	22.89	22.88					
3	QPSK	8	0	21.96	21.97	21.91					
3	QPSK	8	0	22.00	22.01	22.01					
3	QPSK	8	7	21.96	21.97	21.98		23.5	1		
3	16QAM	1	0	22.02	21.88	21.90					
3	16QAM	1	23	22.18	22.07	22.08		23.5	1		
3	16QAM	1	8	22.32	22.24	22.07		23.5	1		
3	16QAM	8	0	22.05	22.17	21.79					
3	16QAM	8	14	22.09	22.09	22.04		23.5	1		
3	16QAM	8	4	20.87	20.97	21.08		22.5	2		
3	16QAM	15	0	20.98	20.81	20.99					
3	16QAM	1	0	21.12	21.15	21.20		23.5	2		
3	16QAM	1	13	21.03	21.03	21.42					
3	16QAM	1	14	21.07	21.38	21.26					
3	16QAM	8	0	19.86	19.89	19.80					
3	16QAM	8	14	19.86	19.86	19.86					
3	16QAM	8	7	19.90	19.97	20.11		21.5	3		
3	16QAM	15	0	19.98	19.88	19.94					
3	16QAM	15	0	19.98	19.98	19.98					
3	16QAM	1	8	17.82	17.84	17.79		19.5	5		
3	16QAM	1	14	18.04	18.01	17.78					
3	16QAM	1	23	18.00	18.00	18.00					
3	16QAM	8	4	17.05	17.88	17.88		19.5	5		
3	16QAM	8	7	17.84	17.84	17.80					
3	16QAM	8	14	17.87	17.85	17.82					
Channel											
		Channel		19967	20175	20026	20175	Turn-on time (μs)	MPE (dB)		
Frequency [MHz]											
1.4	QPSK	1	0	1710.5	1725.5	1754.5					
1.4	QPSK	1	0	23.09	23.03	22.89					
1.4	QPSK	1	23	23.02	22.99	22.92		24.5	0		
1.4	QPSK	1	5	22.95	23.02	23.08					
1.4	QPSK	3	0	23.06	23.01	22.90					
1.4	QPSK	3	0	23.09	23.07	23.04					
1.4	QPSK	3	3	22.89	23.00	23.06		23.5	1		
1.4	QPSK	3	0	21.90	22.03	22.01					
1.4	16QAM	1	0	22.29	22.29	22.27					
1.4	16QAM	1	3	22.28	22.48	22.08		23.5	1		
1.4	16QAM	1	5	22.96	22.26	22.37					
1.4	16QAM	1	23	22.29	22.29	22.47		23.5	1		
1.4	16QAM	3	1	22.26	22.41	22.01					
1.4	16QAM	3	3	22.17	22.33	22.30					
1.4	16QAM	6	0	20.90	20.81	20.56		22.5	2		
1.4	16QAM	1	0	21.21	21.07	21.29					
1.4	16QAM	1	3	21.21	21.07	21.29					
1.4	16QAM	3	5	21.36	21.09	21.17		23.5	2		
1.4	16QAM	3	3	21.03	21.07	21.09					
1.4	16QAM	8	0	20.04	20.02	20.00		21.5	3		
1.4	16QAM	8	1	17.85	17.85	17.81					
1.4	25QAM	1	3	17.67	17.87	17.82					
1.4	25QAM	1	5	17.86	17.87	17.87		19.5	5		



Band 4_Ant 11											
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)			
Channel											
Frequency (MHz)				20550	20570	20590					
20	QPSK	1	0	18.11	18.16	18.21					
20	QPSK	1	40	18.18	18.28	18.33	20	0			
20	QPSK	1	80	18.27	18.30	18.31					
20	QPSK	50	0	18.13	18.21	18.34					
20	QPSK	50	24	18.15	18.22	18.37	20	0			
20	16QAM	1	0	18.19	18.24	18.20					
20	16QAM	1	40	18.18	18.23	18.13					
20	16QAM	1	80	18.14	18.24	18.14					
20	16QAM	50	0	18.10	18.24	18.21					
20	16QAM	50	24	18.17	18.21	18.16					
20	16QAM	50	48	18.15	18.18	18.18					
20	16QAM	100	0	18.12	18.22	18.14					
20	16QAM	1	0	18.20	18.21	18.15					
20	16QAM	1	40	18.14	18.24	18.19					
20	16QAM	1	80	18.18	18.24	18.17					
20	16QAM	50	0	18.10	18.20	18.18					
20	16QAM	50	24	18.14	18.20	18.16					
20	16QAM	50	48	18.17	18.19	18.12					
20	256QAM	1	0	17.16	17.26	17.25					
20	256QAM	1	40	17.27	17.35	17.28	19	1			
20	256QAM	50	0	17.30	17.46	17.44					
20	256QAM	50	24	17.32	17.38	17.37					
20	256QAM	50	48	17.34	17.35	17.29	19	1			
20	256QAM	100	0	17.38	17.39	17.33					
20	256QAM	100	0	17.25	17.33	17.25					
Channel				20550	20570	20590	Turn-up time (min)	MFR (dB)			
15	QPSK	1	0	18.05	18.12	18.21					
15	QPSK	1	37	18.10	18.24	18.23					
15	QPSK	1	74	18.14	18.14	18.19					
15	QPSK	36	0	18.10	18.17	18.15					
15	QPSK	36	20	18.07	18.16	18.14					
15	QPSK	36	33	18.08	18.13	18.08					
15	QPSK	75	0	18.09	18.16	18.14					
15	16QAM	1	0	18.08	18.20	18.17					
15	16QAM	1	37	18.11	18.21	18.08					
15	16QAM	1	74	18.07	18.15	18.11					
15	16QAM	36	0	18.03	18.12	18.16					
15	16QAM	36	20	18.10	18.20	18.12					
15	16QAM	36	33	18.11	18.14	18.15					
15	16QAM	75	0	18.03	18.16	18.09					
15	16QAM	1	0	18.11	18.21	18.07					
15	16QAM	1	37	18.04	18.17	18.14					
15	16QAM	1	74	18.10	18.24	18.10					
15	16QAM	36	0	18.05	18.08	18.11					
15	16QAM	36	20	18.04	18.16	18.14					
15	16QAM	36	33	18.07	18.12	18.07					
15	16QAM	75	0	18.14	18.20	18.12					
15	256QAM	1	0	17.11	17.23	17.22					
15	256QAM	1	37	17.21	17.26	17.26	19	1			
15	256QAM	50	0	17.27	17.39	17.42					
15	256QAM	50	24	17.30	17.37	17.33					
15	256QAM	50	48	17.32	17.34	17.27					
15	256QAM	100	0	17.22	17.28	17.24					
Channel				20550	20570	20590	Turn-up time (min)	MFR (dB)			
10	QPSK	1	0	18.03	18.11	18.19					
10	QPSK	1	25	18.15	18.19	18.17					
10	QPSK	1	50	18.10	18.12	18.17					
10	QPSK	25	0	18.09	18.17	18.18					
10	QPSK	25	12	18.09	18.16	18.10					
10	QPSK	25	25	18.02	18.10	18.15					
10	QPSK	50	0	18.07	18.16	18.12					
10	16QAM	1	0	18.16	18.16	18.12					
10	16QAM	1	25	18.08	18.18	18.03					
10	16QAM	1	50	18.09	18.17	18.09					
10	16QAM	25	0	18.04	18.15	18.14					
10	16QAM	25	12	18.12	18.23	18.09					
10	16QAM	25	25	18.08	18.10	18.13					
10	16QAM	50	0	18.07	18.16	18.12					
10	16QAM	1	0	18.10	18.20	18.12					
10	16QAM	1	25	18.10	18.19	18.18					
10	16QAM	1	40	18.12	18.20	18.11					
10	16QAM	25	0	18.08	18.14	18.18					
10	16QAM	25	12	18.10	18.19	18.18					
10	16QAM	25	25	18.13	18.11	18.09					
10	16QAM	50	0	18.16	18.16	18.14					
10	256QAM	1	0	17.11	17.23	17.22					
10	256QAM	1	25	17.21	17.26	17.26	19	1			
10	256QAM	50	0	17.27	17.39	17.42					
10	256QAM	50	24	17.30	17.37	17.33					
10	256QAM	50	48	17.32	17.34	17.27					
10	256QAM	100	0	17.22	17.28	17.24					
Channel				19675	19705	19575	Turn-up time (min)	MFR (dB)			
3	QPSK	1	0	18.13	18.22	18.26					
3	QPSK	1	12	18.10	18.14	18.22					
3	QPSK	1	24	18.09	18.12	18.19					
3	QPSK	12	0	18.09	18.16	18.17					
3	QPSK	12	7	18.06	18.18	18.13					
3	QPSK	12	13	18.07	18.14	18.15					
3	QPSK	24	0	18.09	18.13	18.15					
3	16QAM	1	0	18.13	18.13	18.10					
3	16QAM	1	12	18.07	18.16	18.13					
3	16QAM	1	24	18.08	18.14	18.11					
3	16QAM	12	0	18.06	18.20	18.14					
3	16QAM	12	7	18.11	18.17	18.14					
3	16QAM	12	13	18.08	18.14	18.12					
3	16QAM	24	0	18.06	18.13	18.12					
3	16QAM	1	0	18.12	18.18	18.12					
3	16QAM	1	12	18.09	18.14	18.11					
3	16QAM	1	24	18.10	18.19	18.08					
3	16QAM	12	0	18.01	18.11	18.07					
3	16QAM	12	7	18.13	18.14	18.13					
3	16QAM	12	13	18.11	18.15	18.05					
3	16QAM	24	0	18.08	18.21	18.12					
3	256QAM	1	0	17.23	17.23	17.20					
3	256QAM	1	12	17.21	17.26	17.26					
3	256QAM	1	24	17.27	17.39	17.43					
3	256QAM	12	0	17.28	17.36	17.31					
3	256QAM	12	7	17.27	17.34	17.24					
3	256QAM	12	13	17.27	17.39	17.42					
3	256QAM	24	0	17.26	17.34	17.27					
3	256QAM	12	7	17.27	17.34	17.24					
3	256QAM	24	0	17.22	17.26	17.22					
Channel				19665	19705	19575	Turn-up time (min)	MFR (dB)			
3	QPSK	1	0	18.13	18.22	18.26					
3	QPSK	1	8	18.17	18.22	18.16					
3	QPSK	1	14	18.15	18.18	18.24					
3	QPSK	8	0	18.10	18.14	18.20					
3	QPSK	8	7	18.05	18.18	18.16					
3	QPSK	8	14	18.06	18.21	18.06					
3	QPSK	16	0	18.10	18.16	18.18					
3	16QAM	1	0	18.12	18.19	18.19					
3	16QAM	1	8	18.10	18.20	18.09					
3	16QAM	1	14	18.08	18.24	18.14					
3	16QAM	8	0	18.05	18.19	18.16					
3	16QAM	8	7	18.14	18.22	18.03					
3	16QAM	8	14	18.13	18.09	18.12					
3	16QAM	16	0	18.10	18.17	18.07					
3	16QAM	1	0	18.15	18.18	18.05					
3	16QAM	1	8	18.13	18.18	18.11					
3	16QAM	1	14	18.14	18.20	18.12					
3	16QAM	8	7	18.08	18.16	18.11					
3	16QAM	8	14	18.17	18.18	18.17					
3	16QAM	16	0	18.12	18.19	18.08					
3	256QAM	1	0	17.11	17.23	17.22					
3	256QAM	1	8	17.21	17.26	17.26	19	1			
3	256QAM	50	0	17.27	17.39	17.42					
3	256QAM	50	24	17.30	17.37	17.33					
3	256QAM	50	48	17.32	17.34	17.27					
3	256QAM	100	0	17.22	17.28	17.24					
Channel				19667	19705	19575	Turn-up time (min)	MFR (dB)			
1.4	QPSK	1	0	18.02	18.05	18.15					
1.4	QPSK	1	8	18.19	18.22	18.21					
1.4	QPSK	1	8	18.16	18.14	18.26					
1.4	QPSK	1	16	18.10	18.12	18.17					
1.4	QPSK	3	0	18.06	18.12	18.22					
1.4	QPSK	3	3	18.10	18.15	18.11					
1.4	16QAM	1	0	18.18	18.18	18.14					
1.4	16QAM	1	3	18.10	18.18	18.20					
1.4	16QAM	3	0	18.02	18.15	18.21					
1.4	16QAM	3	3	18.10	18.21	18.12					
1.4	16QAM	3	1	18.14	18.14	18.07					
1.4	16QAM	6	0	18.03	18.12	18.10					
1.4	16QAM	1	0	18.15	18.18	18.08					
1.4	16QAM	1	6	18.10	18.18	18.11					
1.4	16QAM	3	3	18.15	18.15	18.03					
1.4	256QAM	1	0	18.13	18.19	18.11					
1.4	256QAM	1	6	18.17	17.26	17.42					
1.4	256QAM										



Band 7_Ant 31													
BW [MHz]	Modulation	RB Size	RE Offset	Power High Ch./Freq.	Power Mid Ch./Freq.	Power Low Ch./Freq.	Turn-up time [min]	MPE [dB]					
Channel				20650	2150	2150							
Frequency [MHz]				20650	2150	2150							
20	QPSK	1	0	22.44	22.48	22.18	24	0					
20	QPSK	1	49	22.46	22.54	22.29							
20	QPSK	1	99	22.45	22.47	22.28							
20	QPSK	50	0	21.52	21.63	21.30							
20	QPSK	50	24	21.48	21.62	21.38	23	1					
20	QPSK	50	44	20.49	20.54	20.34							
20	QPSK	100	0	21.43	21.60	21.40							
20	16QAM	1	0	21.81	21.81	21.48							
20	16QAM	1	0	20.83	20.88	20.33	23	1					
20	16QAM	1	99	21.71	21.79	21.71							
20	16QAM	50	0	20.50	20.59	20.36							
20	16QAM	50	44	20.46	20.50	20.36							
20	16QAM	100	0	20.43	20.56	20.36	22	2					
20	16QAM	1	0	20.83	20.88	20.33							
20	16QAM	1	49	20.71	20.75	20.52							
20	16QAM	1	99	20.67	20.65	20.45							
20	16QAM	50	0	19.50	19.53	19.32	21	3					
20	16QAM	50	24	19.48	19.52	19.40							
20	16QAM	50	44	19.49	19.48	19.32							
20	16QAM	100	0	19.44	19.58	19.39							
20	25QAM	1	0	17.04	17.13	17.01	19	5					
20	25QAM	1	49	17.19	17.25	17.08							
20	25QAM	1	99	17.18	17.19	17.15							
20	25QAM	50	0	17.18	17.23	17.25							
20	25QAM	50	24	17.18	17.18	17.18	19	5					
20	25QAM	50	44	17.18	17.18	17.18							
20	25QAM	100	0	17.13	17.19	17.20							
20	25QAM	100	0	17.11	17.21	17.23							
Channel				20625	2150	2175	Turn-up time [min]	MPE [dB]					
Frequency [MHz]				20625	2150	2175							
15	QPSK	1	0	22.28	22.18	22.03	24	0					
15	QPSK	1	37	22.42	22.38	22.10							
15	QPSK	1	37	22.33	22.32	22.11							
15	QPSK	36	0	21.43	21.30	21.21							
15	QPSK	36	20	21.40	21.28	21.22	23	1					
15	QPSK	36	20	21.35	21.28	21.22							
15	QPSK	75	0	21.36	21.29	21.21							
15	16QAM	1	0	21.61	21.63	21.27							
15	16QAM	1	0	21.68	21.68	21.63	23	1					
15	16QAM	1	74	21.69	21.62	21.54							
15	16QAM	36	0	20.42	20.35	20.19							
15	16QAM	36	20	20.35	20.29	20.24							
15	16QAM	36	39	20.35	20.29	20.12	22	2					
15	16QAM	75	0	20.34	20.28	20.19							
15	16QAM	75	0	20.37	20.31	20.25							
15	16QAM	1	37	20.46	20.44	20.34							
15	16QAM	1	74	20.48	20.46	20.39	22	2					
15	16QAM	36	0	19.38	19.35	19.19							
15	16QAM	36	20	19.32	19.27	19.22							
15	16QAM	36	39	19.34	19.25	19.12							
15	16QAM	75	0	19.34	19.28	19.19	21	3					
15	16QAM	75	0	19.34	19.28	19.19							
15	25QAM	1	0	17.03	17.10	17.07							
15	25QAM	1	37	17.19	17.22	17.08	19	5					
15	25QAM	1	74	17.05	17.17	17.03							
15	25QAM	36	0	17.04	17.08	17.04							
15	25QAM	36	20	17.07	17.07	17.02							
15	25QAM	75	0	17.12	17.19	17.12	19	5					
15	25QAM	75	0	17.08	17.17	17.22							
15	25QAM	75	0	17.08	17.22	17.22							
Channel				20600	2150	2160	Turn-up time [min]	MPE [dB]					
Frequency [MHz]				20600	2150	2160							
10	QPSK	1	0	22.48	22.50	22.17	24	0					
10	QPSK	1	25	22.50	22.58	22.30							
10	QPSK	1	25	22.44	22.50	22.31							
10	QPSK	25	0	21.58	21.44	21.25							
10	QPSK	25	12	21.52	21.41	21.32	23	1					
10	QPSK	25	12	21.47	21.41	21.36							
10	QPSK	50	0	21.47	21.40	21.25							
10	16QAM	1	0	21.70	21.48	21.54							
10	16QAM	1	0	21.70	21.70	21.54	23	1					
10	16QAM	1	49	21.76	21.69	21.74							
10	16QAM	1	49	21.76	21.67	21.77							
10	16QAM	25	0	17.66	17.13	17.54							
10	16QAM	25	12	17.69	17.19	17.52	19	0					
10	16QAM	25	12	17.70	17.19	17.52							
10	16QAM	25	25	17.66	17.17	17.51							
10	16QAM	50	0	17.68	17.11	17.55							
10	16QAM	1	0	17.65	17.19	17.54	19	0					
10	16QAM	1	25	17.73	17.20	17.51							
10	16QAM	1	49	17.81	17.77	17.52							
10	16QAM	25	0	17.70	17.19	17.50							
10	16QAM	25	12	17.70	17.67	17.50	19	0					
10	16QAM	25	25	17.62	17.16	17.50							
10	16QAM	50	0	17.71	17.19	17.50							
10	25QAM	1	0	17.71	17.20	17.53							
10	25QAM	1	25	17.73	17.65	17.50	19	0					
10	25QAM	1	49	17.81	17.81	17.52							
10	25QAM	25	0	17.67	17.19	17.52							
10	25QAM	25	12	17.70	17.19	17.52							
10	25QAM	25	25	17.71	17.70	17.51	19	0					
10	25QAM	50	0	17.73	17.81	17.56							
10	25QAM	50	0	17.73	17.81	17.56							



Band 13_Ant 13										
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
22320										
10	QPSK	1	0	22.38			23.5			
10	QPSK	1	25	22.42						
10	QPSK	1	49	22.51						
10	QPSK	25	0	21.89			23	0.5		
10	QPSK	25	12	21.84						
10	QPSK	25	25	21.84						
10	QPSK	50	0	21.85			23	0.5		
10	16QAM	1	0	22.28						
10	16QAM	1	25	21.89						
10	16QAM	1	49	22.29			22	1.5		
10	16QAM	25	0	20.96						
10	16QAM	25	12	20.96						
10	16QAM	25	25	20.96			22	1.5		
10	16QAM	50	0	20.82						
10	8QAM	1	0	21.27						
10	8QAM	1	25	21.25			22	1.5		
10	8QAM	1	49	21.17						
10	8QAM	25	0	19.98						
10	8QAM	25	12	19.87			21	2.5		
10	8QAM	25	25	19.87						
10	8QAM	50	0	19.81						
10	256QAM	1	0	17.88			19	4.5		
10	256QAM	1	25	18.02						
10	256QAM	1	49	17.98						
10	256QAM	25	0	17.98			19	4.5		
10	256QAM	25	12	17.84						
10	256QAM	25	25	17.99						
10	256QAM	50	0	17.92						
Channel										
Frequency (MHz)										
22520										
22520										
5	QPSK	1	0	22.31	22.33	22.19	23.5			
5	QPSK	1	12	22.29	22.34	22.31				
5	QPSK	1	24	22.22	22.22	22.27				
5	QPSK	12	0	21.88	21.90	21.82	23	0.5		
5	QPSK	12	7	21.89	21.93	21.87				
5	QPSK	12	13	21.98	21.98	21.99				
5	QPSK	25	0	21.92	21.94	21.85	23	0.5		
5	16QAM	1	0	22.31	22.08	22.11				
5	16QAM	1	12	21.99	21.95	22.11				
5	16QAM	1	24	22.14	22.00	22.19	22	1.5		
5	16QAM	12	0	20.88	21.64	21.00				
5	16QAM	12	7	20.94	21.01	20.93				
5	16QAM	12	13	21.07	20.89	20.81	22	1.5		
5	16QAM	25	0	20.91	20.96	20.76				
5	8QAM	1	0	20.94	21.15	21.08				
5	8QAM	1	12	20.87	21.05	20.92	22	1.5		
5	8QAM	1	24	21.14	21.01	21.12				
5	8QAM	12	0	19.80	19.87	19.93				
5	8QAM	12	7	19.90	19.94	19.78	21	2.5		
5	8QAM	12	13	19.89	19.93	19.96				
5	8QAM	25	0	19.90	19.95	19.78				
5	256QAM	1	0	17.79	17.80	17.67	19	4.5		
5	256QAM	1	12	17.87	18.02	17.85				
5	256QAM	1	24	17.88	17.91	17.88				
5	256QAM	12	0	17.87	17.83	17.77	19	4.5		
5	256QAM	12	7	17.84	17.83	17.88				
5	256QAM	12	13	17.85	17.88	17.73				
5	256QAM	25	0	17.89	17.91	17.87				

Band 13_Ant 31										
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dB)	MPE (dB)		
Channel							2320			
Frequency (MHz)										
10	QPSK	1	0	22.53			24	0		
10	QPSK	1	25	22.67						
10	QPSK	1	49	22.52						
10	QPSK	25	0	21.68			23	1		
10	QPSK	25	12	21.62						
10	QPSK	25	25	21.61						
10	QPSK	50	0	21.71			23	1		
10	16QAM	1	0	22.09						
10	16QAM	1	25	21.68						
10	16QAM	1	49	22.18			22	2		
10	16QAM	25	0	20.61						
10	16QAM	25	12	20.61						
10	16QAM	25	25	20.79			22	2		
10	16QAM	50	0	20.80						
10	8QAM	1	0	21.09						
10	8QAM	1	25	21.41			22	2		
10	8QAM	1	49	20.95						
10	8QAM	25	0	19.87						
10	8QAM	25	12	19.71			21	3		
10	8QAM	25	25	19.85						
10	8QAM	50	0	19.83						
10	256QAM	1	0	17.77			19	5		
10	256QAM	1	25	17.76						
10	256QAM	1	49	17.75						
10	256QAM	25	0	17.79			19	5		
10	256QAM	25	12	17.81						
10	256QAM	25	25	17.72						
10	256QAM	50	0	17.76						
Channel							23205	23210	23215	
Frequency (MHz)								Turn-up time (dB)	MPE (dB)	
5	QPSK	1	0	22.27	22.50	22.49	24	0		
5	QPSK	1	12	22.39	22.64	22.58				
5	QPSK	1	24	22.33	22.55	22.45				
5	QPSK	12	0	21.40	21.59	21.58	23	1		
5	QPSK	12	7	21.41	21.65	21.57				
5	QPSK	12	13	21.43	21.48	21.51				
5	QPSK	25	0	21.39	21.62	21.58	23	1		
5	16QAM	1	0	21.97	21.92	21.96				
5	16QAM	1	12	21.87	22.10	21.81				
5	16QAM	1	24	21.67	21.73	21.99	22	2		
5	16QAM	12	0	20.43	20.51	20.66				
5	16QAM	12	7	20.42	20.64	20.72				
5	16QAM	12	13	20.47	20.76	20.70	22	2		
5	16QAM	25	0	20.40	20.61	20.62				
5	8QAM	1	0	20.93	20.90	21.23				
5	8QAM	1	12	20.60	20.65	21.35	22	2		
5	8QAM	1	24	20.98	20.77	21.00				
5	8QAM	12	0	19.42	19.75	19.98				
5	8QAM	12	7	19.40	19.57	19.70	21	3		
5	8QAM	12	13	19.44	19.71	19.62				
5	8QAM	25	0	19.40	19.97	19.73				
5	256QAM	1	0	17.63	17.70	17.74	19	5		
5	256QAM	1	12	17.62	17.67	17.86				
5	256QAM	1	24	17.65	17.62	17.64				
5	256QAM	12	0	17.66	17.70	17.67	19	5		
5	256QAM	12	7	17.72	17.73	17.73	19	5		
5	256QAM	12	13	17.67	17.82	17.68				
5	256QAM	25	0	17.51	17.62	17.61				

Band 26_Ant 13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tune-up Int (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
				26765	26865	26965						
				811.5	811.5	811.5						
15	QPSK	1	0	17.69	17.78	17.85						
15	QPSK	1	37	17.73	17.89	17.93	19.5	0				
15	QPSK	1	74	17.83	17.95	18.02						
15	QPSK	36	0	17.76	17.92	17.98						
15	QPSK	36	39	17.85	17.95	18.02	19.5	0				
15	QPSK	75	0	17.68	17.88	17.81						
15	16QAM	1	0	17.65	17.89	17.83	19.5	0				
15	16QAM	1	37	17.53	17.70	17.55						
15	16QAM	1	74	17.72	17.88	17.62						
15	16QAM	36	0	17.72	17.88	17.52						
15	16QAM	36	20	17.65	17.70	17.54	19.5	0				
15	16QAM	36	39	17.55	17.84	17.58						
15	16QAM	75	0	17.68	17.76	17.70						
15	64QAM	1	0	17.71	17.70	17.70	19.5	0				
15	64QAM	1	37	17.70	17.81	17.56						
15	64QAM	1	74	17.59	17.81	17.55						
15	64QAM	36	0	17.58	17.71	17.53						
15	64QAM	36	20	17.58	17.76	17.55	19.5	0				
15	64QAM	36	39	17.71	17.84	17.51						
15	64QAM	75	0	17.63	17.74	17.58						
15	256QAM	1	0	17.61	17.89	17.58						
15	256QAM	1	37	17.69	17.83	17.53	19.5	0				
15	256QAM	1	74	17.64	17.78	17.56						
15	256QAM	36	0	17.54	17.74	17.54						
15	256QAM	36	20	17.54	17.72	17.58	19.5	0				
15	256QAM	36	39	17.57	17.72	17.53						
15	256QAM	75	0	17.63	17.83	17.53						
Channel												
Frequency (MHz)												
				26765	26865	26965						
				811.5	811.5	811.5						
15	QPSK	1	0	17.51	17.73	17.58						
15	QPSK	1	25	17.73	17.85	17.87	19.5	0				
15	QPSK	1	49	17.70	17.74	17.54						
15	QPSK	25	0	17.58	17.91	17.73						
15	QPSK	25	12	17.54	17.86	17.58	19.5	0				
15	QPSK	25	25	17.81	17.81	17.59						
15	QPSK	50	0	17.55	17.80	17.60						
15	16QAM	1	0	17.53	17.74	17.53	19.5	0				
15	16QAM	1	25	17.55	17.66	17.55						
15	16QAM	1	49	17.62	17.72	17.59						
15	16QAM	25	0	17.69	17.80	17.53						
15	16QAM	25	12	17.62	17.65	17.59	19.5	0				
15	16QAM	25	25	17.53	17.74	17.57						
15	16QAM	50	0	17.55	17.62	17.76						
15	16QAM	1	0	17.51	17.51	17.52						
15	64QAM	1	25	17.59	17.75	17.50	19.5	0				
15	64QAM	1	49	17.52	17.72	17.59						
15	64QAM	25	0	17.53	17.67	17.53						
15	64QAM	25	12	17.59	17.61	17.72	19.5	0				
15	64QAM	25	25	17.55	17.66	17.55						
15	256QAM	1	0	17.62	17.87	17.75						
15	256QAM	1	25	17.71	17.87	17.89	19.5	0				
15	256QAM	1	49	17.50	17.68	17.65						
15	256QAM	25	0	17.59	17.70	17.70						
15	256QAM	25	12	17.53	17.64	17.59	19.5	0				
15	256QAM	25	25	17.59	17.68	17.58						
15	256QAM	50	0	17.56	17.72	17.57						
Channel												
Frequency (MHz)												
				26765	26865	26965						
				811.5	811.5	811.5						
5	QPSK	1	0	17.58	17.70	17.68						
5	QPSK	1	12	17.73	17.89	17.91	19.5	0				
5	QPSK	1	24	17.61	17.86	17.64						
5	QPSK	12	0	17.85	17.98	17.73						
5	QPSK	12	7	17.64	17.87	17.62	19.5	0				
5	QPSK	12	13	17.63	17.73	17.55						
5	QPSK	25	0	17.62	17.91	17.54						
5	16QAM	1	0	17.72	17.84	17.55	19.5	0				
5	16QAM	1	12	17.62	17.76	17.62						
5	16QAM	1	24	17.76	17.91	17.70						
5	16QAM	12	0	17.64	17.82	17.55						
5	16QAM	12	7	17.68	17.76	17.69	19.5	0				
5	16QAM	12	13	17.64	17.93	17.54						
5	16QAM	25	0	17.76	17.76	17.67						
5	64QAM	1	0	17.61	17.71	17.75	19.5	0				
5	64QAM	1	12	17.68	17.85	17.65						
5	64QAM	1	24	17.53	17.81	17.59						
5	64QAM	12	0	17.54	17.82	17.72						
5	64QAM	12	7	17.69	17.70	17.70	19.5	0				
5	64QAM	12	13	17.70	17.81	17.52						
5	64QAM	25	0	17.57	17.73	17.73						
5	256QAM	1	0	17.65	17.81	17.54						
5	256QAM	1	12	17.65	17.90	17.64	19.5	0				
5	256QAM	1	24	17.54	17.74	17.64						
5	256QAM	12	0	17.59	17.75	17.57						
5	256QAM	12	7	17.63	17.82	17.67	19.5	0				
5	256QAM	12	13	17.64	17.80	17.61						
5	256QAM	25	0	17.69	17.82	17.68						
Channel												
Frequency (MHz)												
				26765	26865	26965						
				811.5	811.5	811.5						
3	QPSK	1	0	17.63	17.86	17.68						
3	QPSK	1	8	17.84	17.97	17.82	19.5	0				
3	QPSK	1	14	17.55	17.86	17.54						
3	QPSK	8	0	17.83	17.82	17.73						
3	QPSK	8	4	17.74	17.84	17.60	19.5	0				
3	QPSK	8	7	17.68	17.86	17.63						
3	QPSK	15	0	17.63	17.97	17.62						
3	16QAM	1	0	17.57	17.80	17.60	19.5	0				
3	16QAM	1	8	17.67	17.82	17.61						
3	16QAM	1	14	17.68	17.82	17.57						
3	16QAM	8	0	17.61	17.85	17.58	19.5	0				
3	16QAM	8	4	17.64	17.60	17.55						
3	16QAM	8	7	17.58	17.93	17.62						
3	16QAM	15	0	17.76	17.72	17.60						
3	64QAM	1	0	17.67	17.65	17.73	19.5	0				
3	64QAM	1	8	17.67	17.89	17.51						
3	64QAM	1	14	17.56	17.80	17.53						
3	64QAM	8	0	17.54	17.62	17.60	19.5	0				
3	64QAM	8	4	17.59	17.68	17.54						
3	64QAM	8	7	17.73	17.80	17.68						
3	64QAM	15	0	17.71	17.73	17.71						
3	256QAM	1	0	17.65	17.80	17.66						
3	256QAM	1	8	17.71	17.89	17.62	19.5	0				
3	256QAM	1	14	17.53	17.83	17.60						
3	256QAM	8	0	17.59	17.81	17.54						
3	256QAM	8	4	17.55	17.70	17.59	19.5	0				
3	256QAM	8	7	17.61	17.77	17.65						
3	256QAM	15	0	17.57	17.86	17.52						
Channel												
Frequency (MHz)												
				26867	26965	27063						
				814.5	814.5	814.5						
1.4	QPSK	1	0	17.53	17.85	17.58						
1.4	QPSK	1	37	17.58	17.88	17.82	19.5	0				
1.4	QPSK	1	60	17.63	17.92	17.67						
1.4	QPSK	3	0	17.67	17.91	17.75						
1.4	QPSK	3	3	17.61	17.79	17.64	19.5	0				
1.4	QPSK	3	37	17.66	17.96	17.90						
1.4	16QAM	1	0	17.67	17.70	17.55						
1.4	16QAM	1	3	17.60	17.62	17.58						
1.4	16QAM	1	37	17.63	17.68	17.68	19.5	0				
1.4	16QAM	3	0	17.74	17.90	17.54						
1.4	16QAM	3	1	17.74	17.68	17.73						
1.4	16QAM	3	37	17.78	17.78	17.78	19.5	0				
1.4	64QAM	1	0	17.68	17.72	17.73	19.5	0				
1.4	64QAM	1	37	17.68	17.86	17.68						
1.4	64QAM	1	60	17.59	17.82	17.57						
1.4	64QAM	3	0	17.51	17.64	17.58						
1.4	64QAM	3	37	17.52	17.62	17.52	19.5	0				
1.4	64QAM	3	60	17.64	17.80	17.67						
1.4	64QAM	6	0	17.59								

Band 66_Ant 31												
(BW [MHz])	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up (mHz)	MFR (dB)				
Channel										12072		
Frequency (MHz)										1745		
20	QPSK	1	0	22.95	22.97	22.99			24.5	0		
20	QPSK	1	48	22.92	23.04	23.01						
20	QPSK	1	96	22.92	23.01	23.06						
20	QPSK	50	0	22.92	22.94	22.97						
20	QPSK	50	24	21.97	22.06	22.01						
20	QPSK	50	50	21.99	22.10	22.02			23.5	1		
20	QPSK	100	0	22.02	22.08	21.99						
20	16QAM	1	0	22.33	22.37	22.34						
20	16QAM	1	48	22.27	22.36	22.36						
20	16QAM	1	96	22.21	22.28	22.21						
20	16QAM	50	0	20.98	21.01	20.99			22.5	2		
20	16QAM	50	24	21.00	21.05	21.00						
20	16QAM	50	50	21.03	21.05	21.06						
20	16QAM	100	0	20.97	21.04	20.96						
20	16QAM	1	0	21.21	21.27	21.23						
20	64QAM	1	48	21.17	21.32	21.24			22.5	2		
20	64QAM	1	96	21.21	21.20	21.20						
20	64QAM	50	0	19.99	20.02	20.00						
20	64QAM	50	24	20.01	20.07	20.00						
20	64QAM	50	50	20.01	20.01	20.01						
20	256QAM	1	0	17.68	17.77	17.77			21.5	3		
20	256QAM	1	48	17.85	17.82	17.74						
20	256QAM	1	96	17.86	17.82	17.73						
20	256QAM	50	0	17.63	17.77	17.72						
20	256QAM	50	24	17.67	17.78	17.78						
20	256QAM	50	50	17.75	17.83	17.83			21.5	3		
20	256QAM	100	0	17.74	17.85	17.79						
Channel											12072	
Frequency (MHz)											1745	
15	QPSK	1	0	22.67	22.75	22.90			24.5	0		
15	QPSK	1	37	23.01	23.02	22.90						
15	QPSK	1	74	23.03	22.94	22.76						
15	QPSK	36	0	21.89	21.89	21.91						
15	QPSK	36	20	21.83	21.85	21.89						
15	QPSK	36	40	21.90	21.90	21.91			23.5	1		
15	QPSK	75	0	21.83	21.87	21.88						
15	16QAM	1	0	21.85	22.17	22.16						
15	16QAM	1	37	21.60	22.08	22.37						
15	16QAM	1	74	21.96	22.25	22.37						
15	16QAM	36	0	20.95	20.77	20.82			22.5	2		
15	16QAM	36	20	20.94	20.90	20.81						
15	16QAM	36	36	20.82	20.90	20.93						
15	16QAM	75	0	20.87	20.72	20.76						
15	16QAM	1	0	20.98	20.92	20.94						
15	64QAM	1	37	21.22	21.14	20.89			22.5	2		
15	64QAM	1	74	20.77	20.95	20.99						
15	64QAM	36	0	19.83	19.85	19.89						
15	64QAM	36	20	19.81	19.85	19.84						
15	64QAM	36	36	19.78	19.86	19.90						
15	64QAM	75	0	19.82	19.76	19.84			19.5	5		
15	256QAM	1	0	17.64	17.77	17.70						
15	256QAM	1	37	17.88	17.76	17.72						
15	256QAM	1	74	17.72	17.73	17.74						
15	256QAM	36	0	17.62	17.72	17.69						
15	256QAM	36	20	17.63	17.62	17.70			19.5	5		
15	256QAM	36	36	17.65	17.77	17.76						
15	256QAM	75	0	17.69	17.83	17.73						
Channel											12072	
Frequency (MHz)											1745	
10	QPSK	1	0	22.87	22.98	23.03			24.5	0		
10	QPSK	1	25	22.96	23.01	22.95						
10	QPSK	1	48	23.00	22.97	22.95						
10	QPSK	25	0	22.01	21.90	22.01						
10	QPSK	25	12	22.03	21.95	22.10						
10	QPSK	25	25	22.02	22.00	22.08			23.5	1		
10	QPSK	50	0	21.99	21.93	21.96						
10	16QAM	1	0	22.30	21.97	22.31						
10	16QAM	1	25	21.94	22.32	22.33						
10	16QAM	1	48	21.86	22.38	22.33						
10	16QAM	25	0	21.08	21.05	21.05			22.5	2		
10	16QAM	25	12	21.01	20.97	21.13						
10	16QAM	25	25	20.99	21.09	20.97						
10	16QAM	50	0	20.99	20.96	20.94						
10	16QAM	1	0	21.34	21.47	21.08						
10	64QAM	1	25	21.41	21.20	21.20			22.5	2		
10	64QAM	1	48	21.01	21.12	21.34						
10	64QAM	25	0	19.91	19.96	19.90						
10	64QAM	25	12	20.08	19.94	20.19						
10	64QAM	25	25	20.07	19.97	20.01						
10	256QAM	1	0	17.69	17.84	17.81			21.5	3		
10	256QAM	1	25	17.76	17.71	17.62						
10	256QAM	1	48	17.78	17.69	17.62						
10	256QAM	25	0	17.55	17.73	17.70						
10	256QAM	25	12	17.60	17.61	17.69						
10	256QAM	25	25	17.71	17.80	17.69			21.5	3		
10	256QAM	50	0	17.63	17.79	17.66						
Channel											12072	
Frequency (MHz)											1745	
5	QPSK	1	0	22.78	22.67	22.74			24.5	0		
5	QPSK	1	12	22.77	22.96	22.85						
5	QPSK	1	24	22.86	22.85	22.85						
5	QPSK	12	0	21.95	21.88	22.03						
5	QPSK	12	7	22.01	22.04	22.08						
5	QPSK	12	11	21.98	22.01	22.02			23.5	1		
5	QPSK	25	0	22.00	21.97	22.04						
5	16QAM	1	0	22.34	22.28	22.25						
5	16QAM	1	12	22.35	21.94	22.26						
5	16QAM	1	24	21.90	22.11	22.85						
5	16QAM	12	0	20.95	20.94	21.03			22.5	2		
5	16QAM	12	7	21.03	21.01	21.05						
5	16QAM	12	13	20.94	20.97	21.07						
5	16QAM	25	0	20.94	20.93	21.02						
5	16QAM	1	0	21.02	21.06	21.06						
5	64QAM	1	12	21.05	20.75	21.20			22.5	2		
5	64QAM	1	24	21.12	21.12	21.25						
5	64QAM	12	0	19.91	19.93	19.91						
5	64QAM	12	7	19.94	19.99	20.11						
5	64QAM	12	13	19.89	19.99	20.04						
5	256QAM	1	0	17.65	17.79	17.74			19.5	5		
5	256QAM	1	12	17.76	17.67	17.73						
5	256QAM	1	24	17.78	17.69	17.59						
5	256QAM	12	0	17.55	17.73	17.67						
5	256QAM	12	7	17.60	17.61	17.69						
5	256QAM	12	13	17.60	17.85	17.86			19.5	5		
5	256QAM	25	0	17.67	17.89	17.66						
Channel											12072	
Frequency (MHz)											1745	
3	QPSK	1	0	22.91	22.88	22.93			24.5	0		
3	QPSK	1	8	22.87	22.93	22.94						
3	QPSK	1	14	22.93	22.75	22.87						
3	QPSK	8	0	21.99	22.00	21.97						
3	QPSK	8	4	22.05	21.98	22.03						
3	QPSK	8	7	22.00	21.94	21.94			23.5	1		
3	QPSK	16	0	21.97	21.96	21.99						
3	16QAM	1	0	22.32	22.45	22.58						
3	16QAM	1	8	21.96	22.60	22.33						
3	16QAM	1	14	22.18	21.79	22.05						
3	16QAM	8	0	21.05	21.05	20.99			22.5	2		
3	16QAM	8	4	20.99	21.13	21.11						
3	16QAM	8	7	21.07	20.90	21.09			21.5	3		
3	16QAM	16	0	21.02	20.90	21.01						
3	16QAM	16	8	21.98	22.06	22.09						
3	16QAM	16	16	22.02	22.05	22.12						
3	16QAM	1	0	20.95	21.04	21.04						
3	16QAM	1	8	21.04	21.16	21.18			22.5	2		
3	16QAM	1	16	21.04	21.13	21.18						
3	64QAM	1	8	21.04	21.03	21.05			21.5	3		
3	64QAM	1	16	21.04	21.03	21.05						
3	64QAM	8	0	20.93	21.06	21.02						
3	64QAM	8	8	19.94	19.96	20.02						
3	64QAM	8	16	19.98	19.98	20.02						
3	256QAM	1	0	17.85	17.87	17.87			19.5	5		
3	256QAM	1	8	17.82	17.74	17.78						
3	256QAM	1	16	17.85	17.78	17.78						
3	256QAM	8	0	17.67	17.78	17.77						
3	256QAM	8	8	17.67	17.74	17.78						
3	256QAM	8	16	17.67	17.86	17.77			19.5	5		
3	256QAM	16	0	17.87	17.88	17.86						
Channel											12072	
Frequency (MHz)											1745	
1.4	QPSK	1	0	22.97	22.93	22.94			24.5	0		
1.4	QPSK	1	5	22.89	22.91	22.91						
1.4	QPSK	1	10	22.94	22.94	22.94						
1.4	QPSK	1	15	22.93	22.92	22.92						
1.4	QPSK	3	0	22.80	22.93	22.93						
1.4	QPSK	3	5	22.93	22.92	22.92			23.5	1		
1.4	QPSK	3	10	22.92	22.90	22.92						
1.4	16QAM	1	0	22.29	22.20	22.32						
1.4	16QAM	1	3	22.22	22.23	22.29						
1.4	16QAM	1	6	22.28	22.28	22.28						
1.4	16QAM	3	0	22.02	22.05	22.12			23.5	1		
1.4	16QAM	3	3	22.01	22.08	22.06						
1.4	16QAM	3	6	22.01	22.08	22.06						
1.4	16QAM	6	0	20.95	21.04	21.04						
1.4	16QAM	6	3	21.04	21.16	21.18						
1.4	16QAM	6	6	21.04	21.13	21.18			22.5	2		
1.4	64QAM	1	3	20.93	21.04	21.03						
1.4	64QAM	3	0	19.94	19.96	20.02			21.5	3		
1.4	64QAM	3	3	19.98	1							

Band 38_Ant 13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Invl (sec)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	13.24	13.41	13.48				
20	QPSK	1	49	13.22	13.53	13.47	14.5	0		
20	QPSK	1	99	13.17	13.34	13.48				
20	QPSK	50	0	13.28	13.48	13.41				
20	QPSK	50	24	13.17	13.35	13.37	14.5	0		
20	QPSK	50	50	13.22	13.34	13.35				
20	QPSK	100	0	13.28	13.40	13.29				
20	16QAM	1	0	13.25	13.32	13.42	14.5	0		
20	16QAM	1	49	13.17	13.34	13.37				
20	16QAM	1	99	13.28	13.48	13.32				
20	16QAM	50	0	13.19	13.33	13.36				
20	16QAM	50	24	13.13	13.36	13.27	14.5	0		
20	16QAM	50	50	13.29	13.42	13.40				
20	16QAM	100	0	13.21	13.32	13.44				
20	64QAM	1	0	13.20	13.33	13.42				
20	64QAM	1	49	13.26	13.49	13.38	14.5	0		
20	64QAM	1	99	13.20	13.41	13.37				
20	64QAM	50	0	13.13	13.32	13.30				
20	64QAM	50	24	13.23	13.41	13.41	14.5	0		
20	64QAM	50	50	13.23	13.39	13.45				
20	64QAM	100	0	13.13	13.48	13.38				
20	256QAM	1	0	13.14	13.42	13.31				
20	256QAM	1	49	13.13	13.48	13.38	14.5	0		
20	256QAM	1	99	13.12	13.41	13.45				
20	256QAM	50	0	13.24	13.49	13.43				
20	256QAM	50	24	13.11	13.45	13.36	14.5	0		
20	256QAM	50	50	13.16	13.40	13.33				
20	256QAM	100	0	13.27	13.34	13.35				
Channel										
Frequency (MHz)				3777.5	38000	38175	Turnup Invl (sec)	MPR (dB)		
16	QPSK	1	0	13.15	13.35	13.29				
16	QPSK	1	37	13.20	13.44	13.36	14.5	0		
16	QPSK	1	74	13.12	13.32	13.48				
16	QPSK	36	0	13.16	13.48	13.36				
16	QPSK	36	20	13.14	13.34	13.45	14.5	0		
16	QPSK	36	39	13.11	13.42	13.41				
16	QPSK	75	0	13.12	13.35	13.30				
16	16QAM	1	0	13.14	13.37	13.34	14.5	0		
16	16QAM	1	37	13.13	13.37	13.34				
16	16QAM	1	74	13.24	13.34	13.27				
16	16QAM	36	0	13.16	13.34	13.37				
16	16QAM	36	20	13.28	13.33	13.32	14.5	0		
16	16QAM	36	39	13.27	13.43	13.35				
16	16QAM	75	0	13.29	13.32	13.36				
16	64QAM	1	0	13.27	13.44	13.30				
16	64QAM	1	37	13.29	13.31	13.42	14.5	0		
16	64QAM	1	74	13.25	13.37	13.36				
16	64QAM	36	0	13.28	13.48	13.37				
16	64QAM	36	20	13.26	13.31	13.27	14.5	0		
16	64QAM	36	39	13.15	13.40	13.32				
16	64QAM	75	0	13.14	13.34	13.31				
16	256QAM	1	0	13.19	13.42	13.41	14.5	0		
16	256QAM	1	37	13.13	13.45	13.41				
16	256QAM	1	74	13.13	13.36	13.48				
16	256QAM	36	0	13.27	13.42	13.35				
16	256QAM	36	20	13.25	13.35	13.40	14.5	0		
16	256QAM	36	39	13.11	13.44	13.25				
16	256QAM	75	0	13.19	13.39	13.32				
Channel										
Frequency (MHz)				3777.5	38000	38225	Turnup Invl (sec)	MPR (dB)		
10	QPSK	1	0	13.20	13.43	13.43				
10	QPSK	1	25	13.21	13.41	13.45	14.5	0		
10	QPSK	1	49	13.17	13.47	13.41				
10	QPSK	25	0	13.16	13.40	13.31				
10	QPSK	25	12	13.25	13.45	13.39	14.5	0		
10	QPSK	25	25	13.18	13.46	13.35				
10	QPSK	50	0	13.12	13.33	13.38				
10	16QAM	1	0	13.29	13.44	13.24	14.5	0		
10	16QAM	1	25	13.28	13.49	13.34				
10	16QAM	1	49	13.20	13.41	13.41				
10	16QAM	25	0	13.30	13.35	13.46				
10	16QAM	25	12	13.24	13.49	13.34	14.5	0		
10	16QAM	25	25	13.28	13.31	13.43				
10	16QAM	50	0	13.11	13.41	13.34				
10	64QAM	1	0	13.12	13.38	13.33				
10	64QAM	1	25	13.30	13.32	13.35	14.5	0		
10	64QAM	1	49	13.28	13.49	13.42				
10	64QAM	25	0	13.30	13.41	13.40				
10	64QAM	25	12	13.16	13.36	13.42	14.5	0		
10	64QAM	25	25	13.17	13.40	13.32				
10	64QAM	50	0	13.14	13.48	13.34				
10	256QAM	1	0	13.23	13.32	13.31	14.5	0		
10	256QAM	1	25	13.25	13.37	13.29				
10	256QAM	1	49	13.18	13.45	13.37				
10	256QAM	25	0	13.20	13.43	13.30				
10	256QAM	25	12	13.19	13.37	13.29	14.5	0		
10	256QAM	25	25	13.17	13.42	13.44				
10	256QAM	50	0	13.24	13.39	13.41				

Band 38_Ant 31										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Invl (sec)	MPR (dB)		
Channel										
		Frequency (MHz)		37850	38000	38150				
20	QPSK	1	0	23.15	23.23	23.25			25	0
20	QPSK	1	49	23.40	23.53	23.36				
20	QPSK	1	99	23.30	23.27	23.33				
20	QPSK	50	0	22.18	22.40	22.42			24	1
20	QPSK	50	24	22.32	22.47	22.33				
20	QPSK	50	50	22.37	22.40	22.41				
20	16QAM	1	0	22.28	22.46	22.47				
20	16QAM	1	49	22.21	22.58	22.52			24	1
20	16QAM	1	99	22.15	22.20	22.34				
20	16QAM	50	0	21.33	21.50	21.32				
20	16QAM	50	24	21.55	21.51	21.46			23	2
20	16QAM	50	50	21.32	21.50	21.47				
20	64QAM	1	0	21.37	21.50	21.30				
20	64QAM	1	49	21.17	21.64	21.15			23	2
20	64QAM	1	99	21.31	21.55	21.49				
20	64QAM	50	0	20.43	20.50	20.47				
20	64QAM	50	24	20.37	20.52	20.27			22	3
20	64QAM	50	50	20.36	20.43	20.44				
20	256QAM	1	0	18.19	18.26	18.21			20	5
20	256QAM	1	49	18.05	18.19	18.13				
20	256QAM	1	99	18.02	18.14	18.03				
20	256QAM	50	0	18.14	18.21	18.24			20	5
20	256QAM	50	24	18.02	18.17	18.13				
20	256QAM	50	50	18.07	18.16	18.13				
Channel										
		Frequency (MHz)		3777.5	3800	3817.5	Turnup Invl (sec)	MPR (dB)		
16	QPSK	1	0	23.30	23.21	23.20				
16	QPSK	1	37	23.17	23.21	23.23	25	0		
16	QPSK	1	74	23.21	23.23	23.23				
16	QPSK	36	0	22.26	22.30	22.40			24	1
16	QPSK	36	20	22.27	22.35	22.32				
16	QPSK	36	39	22.22	22.31	22.48				
16	QPSK	75	0	22.14	22.24	22.37				
16	16QAM	1	0	22.16	22.16	22.09	24	1		
16	16QAM	1	37	22.36	22.55	22.40				
16	16QAM	1	74	22.42	22.19	22.42				
16	16QAM	36	0	21.25	21.27	21.27				
16	16QAM	36	20	21.21	21.28	21.44	23	2		
16	16QAM	36	39	21.25	21.28	21.46				
16	16QAM	75	0	21.09	21.18	21.39				
16	64QAM	1	0	21.34	21.37	21.36			23	2
16	64QAM	1	37	21.15	21.17	21.11				
16	64QAM	1	74	21.46	21.30	21.16				
16	64QAM	36	0	20.19	20.29	20.34			22	3
16	64QAM	36	20	20.24	20.30	20.43				
16	64QAM	36	39	20.23	20.38	20.37				
16	64QAM	75	0	20.25	20.28	20.35				
16	256QAM	1	0	18.19	18.26	18.21			20	5
16	256QAM	1	37	18.02	18.04	18.01				
16	256QAM	1	74	18.05	18.13	18.02				
16	256QAM	36	0	18.14	18.19	18.15			20	5
16	256QAM	36	20	18.02	18.06	18.05				
16	256QAM	36	39	18.07	18.10	18.08				
16	256QAM	75	0	18.15	18.18	18.20				
Channel										
		Frequency (MHz)		3777.5	3800	38150	Turnup Invl (sec)	MPR (dB)		
10	QPSK	1	0	23.30	23.21	23.20				
10	QPSK	1	12	23.21	23.23	23.23	25	0		
10	QPSK	1	24	23.25	23.26	23.25				
10	QPSK	1	49	23.13	23.32	23.40			24	1
10	QPSK	1	74	23.17	23.24	23.24				
10	QPSK	25	12	22.14	22.25	22.24				
10	QPSK	25	24	22.15	22.30	22.33				
10	QPSK	25	49	22.23	22.23	22.23			24	1
10	QPSK	25	74	22.20	22.36	22.22				
10	16QAM	1	0	22.26	22.30	22.22				
10	16QAM	1	25	22.44	22.59	22.59	24	1		
10	16QAM	1	49	22.38	22.44	22.44				
10	16QAM	25	0	21.24	21.24	21.28				
10	16QAM	25	12	21.20	21.30	21.38	23	2		
10	16QAM	25	24	21.25	21.25	21.25				
10	16QAM	50	0	21.08	21.29	21.43				
10	64QAM	1	0	21.23	21.21	21.40			23	2
10	64QAM	1	12	21.24	21.24	21.24				
10	64QAM	1	49	21.03	21.16	21.44				
10	64QAM	25	0	20.26	20.31	20.35			22	3
10	64QAM	25	12	20.23	20.23	20.23				
10	64QAM	25	24	20.29	20.20	20.20				
10	64QAM	50	0	20.23	20.17	20.34				
10	256QAM	1	0	18.21	18.15	18.24			20	5
10	256QAM	1	25	18.05	18.14	18.15				
10	256QAM	1	49	18.05	18.03	18.04				
10	256QAM	25	12	18.02	18.02	18.02			20	5
10	256QAM	25	24	18.04	18.03	18.04				
10	256QAM	50	0	18.16	18.11	18.16				
Channel										
		Frequency (MHz)		3777.5	3800	38150	Turnup Invl (sec)	MPR (dB)		
5	QPSK	1	12	23.21	23.23	23.23	25	0		
5	QPSK	1	24	23.25	23.38	23.44				
5	QPSK	1	49	23.41	23.41	23.41			24	1
5	QPSK	12	12	22.40	22.40	22.57				
5	QPSK	12	24	22.36	22.38	22.55				
5	QPSK	12	49	22.27	22.47	22.47			24	1
5	16QAM	1	0	22.30	22.30	22.42				
5	16QAM	1	12	22.47	22.38	22.73	24	1		
5	16QAM	12	12	22.40	22.40	22.40				
5	16QAM	12	24	21.27	21.35	21.60				
5	16QAM	12	49	21.46	21.30	21.45	23	2		
5	16QAM	25	0	21.46	21.34	21.37				
5	16QAM	25	12	21.40	21.04	21.21			23	2
5	16QAM	25	24	21.12	21.29	21.43				
5	64QAM	1	24	21.23	21.30	21.23			22	3
5	64QAM	12	0	20.33	20.40	20.46				
5	64QAM	12	12	20.44	20.47	20.47				
5	64QAM	12	24	20.31	20.59	20.53			20	5
5	64QAM	25	0	20.43	20.31	20.36				
5	256QAM	1	24	18.24	18.14	18.24			20	5
5	256QAM	1	12	18.02	18.14	18.14				
5	256QAM	12	24	18.05	18.05	18.06				
5	256QAM	12	7	18.09	18.07	18.07			20	5
5	256QAM	12	13	18.02	18.07	18.05				



Band 41_Ant 13																	
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mids Ch / Freq	Power Low Hds Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-on time (ms)	MPR (dB)							
Channel																	
Frequency (MHz)				39700	40185	40600	41055	41400									
20	QPSK	1	0	13.22	13.17	13.48	13.37	13.32	14.5	0							
20	QPSK	1	48	13.36	13.37	13.50	13.45	13.42									
20	QPSK	1	96	13.23	13.17	13.48	13.30	13.37									
20	QPSK	50	0	13.31	13.31	13.48	13.38	13.33									
20	QPSK	50	24	13.19	13.25	13.38	13.27	13.22									
20	QPSK	50	50	13.28	13.30	13.40	13.38	13.37	14.5	0							
20	QPSK	100	0	13.32	13.29	13.48	13.37	13.32									
20	16QAM	1	0	13.18	13.25	13.41	13.30	13.29									
20	16QAM	1	48	13.28	13.38	13.29	13.29	13.23									
20	16QAM	1	96	13.31	13.28	13.47	13.31	13.36									
20	16QAM	50	0	13.34	13.29	13.46	13.30	13.27	14.5	0							
20	16QAM	50	24	13.24	13.18	13.45	13.35	13.40									
20	16QAM	50	50	13.17	13.22	13.29	13.30	13.26									
20	16QAM	100	0	13.28	13.23	13.46	13.28	13.33									
20	16QAM	100	5	13.24	13.27	13.29	13.38	13.33									
20	64QAM	1	48	13.32	13.32	13.41	13.27	13.37	14.5	0							
20	64QAM	1	96	13.34	13.33	13.46	13.41	13.28									
20	64QAM	50	0	13.19	13.19	13.44	13.29	13.22									
20	64QAM	50	24	13.30	13.18	13.38	13.41	13.24									
20	64QAM	50	50	13.20	13.22	13.35	13.37	13.40									
20	256QAM	1	0	13.22	13.31	13.31	13.43	13.21	14.5	0							
20	256QAM	1	48	13.20	13.38	13.41	13.35	13.22									
20	256QAM	1	96	13.24	13.29	13.35	13.40	13.38									
20	256QAM	50	0	13.29	13.34	13.44	13.30	13.24									
20	256QAM	50	24	13.17	13.38	13.44	13.33	13.28									
20	256QAM	50	50	13.20	13.33	13.38	13.41	13.31	14.5	0							
20	256QAM	100	0	13.16	13.23	13.33	13.29	13.30									
Channel				39700	40173	40600	41068	41515									
Frequency (MHz)				2500	2649.5	2699	2849.5	2899.5									
15	QPSK	1	0	13.17	13.33	13.47	13.38	13.30	14.5	0							
15	QPSK	1	37	13.25	13.25	13.34	13.25	13.22									
15	QPSK	1	74	13.33	13.27	13.48	13.30	13.23									
15	QPSK	36	0	13.22	13.32	13.48	13.32	13.25									
15	QPSK	36	20	13.18	13.30	13.31	13.27	13.38									
15	QPSK	36	36	13.15	13.23	13.29	13.37	13.34	14.5	0							
15	QPSK	75	0	13.27	13.17	13.41	13.35	13.28									
15	16QAM	1	0	13.32	13.31	13.46	13.28	13.38									
15	16QAM	1	37	13.30	13.17	13.29	13.34	13.23									
15	16QAM	1	74	13.31	13.33	13.38	13.30	13.40									
15	16QAM	36	0	13.21	13.25	13.41	13.42	13.30	14.5	0							
15	16QAM	36	20	13.23	13.31	13.35	13.40	13.38									
15	16QAM	36	36	13.15	13.25	13.30	13.40	13.26									
15	16QAM	75	0	13.18	13.30	13.45	13.27	13.28									
15	16QAM	75	5	13.30	13.35	13.46	13.32	13.38									
15	64QAM	1	37	13.20	13.20	13.48	13.32	13.37	14.5	0							
15	64QAM	1	74	13.21	13.36	13.38	13.43	13.28									
15	64QAM	36	0	13.32	13.36	13.38	13.37	13.34									
15	64QAM	36	20	13.27	13.28	13.31	13.29	13.38									
15	64QAM	36	36	13.21	13.28	13.38	13.40	13.21									
15	256QAM	1	0	13.15	13.20	13.35	13.35	13.38	14.5	0							
15	256QAM	1	37	13.18	13.18	13.35	13.29	13.37									
15	256QAM	1	74	13.31	13.32	13.35	13.27	13.32									
15	256QAM	36	0	13.23	13.35	13.35	13.30	13.26									
15	256QAM	36	20	13.27	13.32	13.36	13.40	13.25									
15	256QAM	36	36	13.27	13.32	13.40	13.25	13.34	14.5	0							
15	256QAM	75	0	13.21	13.24	13.34	13.42	13.21									
Channel				39700	40160	40600	41060	41540									
Frequency (MHz)				2500	2649.5	2699	2849.5	2899.5									
10	QPSK	1	0	13.17	13.22	13.40	13.24	13.30	14.5	0							
10	QPSK	1	25	13.21	13.23	13.45	13.28	13.28									
10	QPSK	1	48	13.23	13.31	13.35	13.27	13.32									
10	QPSK	25	0	13.20	13.26	13.38	13.41	13.27									
10	QPSK	25	12	13.19	13.30	13.48	13.24	13.32									
10	QPSK	25	26	13.18	13.28	13.36	13.44	13.32	14.5	0							
10	QPSK	50	0	13.28	13.26	13.37	13.38	13.21									
10	16QAM	1	0	13.24	13.33	13.34	13.42	13.33									
10	16QAM	1	25	13.16	13.31	13.47	13.31	13.21									
10	16QAM	1	48	13.31	13.23	13.38	13.35	13.27									
10	16QAM	25	0	13.24	13.23	13.48	13.39	13.40	14.5	0							
10	16QAM	25	12	13.34	13.30	13.34	13.24	13.35									
10	16QAM	25	26	13.29	13.36	13.48	13.34	13.34									
10	16QAM	50	0	13.26	13.27	13.36	13.38	13.26									
10	16QAM	50	5	13.22	13.23	13.29	13.32	13.22									
10	64QAM	1	25	13.20	13.30	13.42	13.33	13.22	14.5	0							
10	64QAM	1	48	13.26	13.33	13.46	13.38	13.40									
10	64QAM	25	0	13.30	13.18	13.40	13.33	13.30									
10	64QAM	25	12	13.30	13.31	13.34	13.26	13.28									
10	64QAM	25	26	13.15	13.22	13.44	13.40	13.38									
10	256QAM	1	0	13.17	13.34	13.35	13.26	13.30	14.5	0							
10	256QAM	1	25	13.23	13.29	13.40	13.31	13.39									
10	256QAM	1	25	13.28	13.25	13.31	13.43	13.38									
10	256QAM	1	48	13.32	13.25	13.40	13.37	13.27									
10	256QAM	25	0	13.25	13.22	13.32	13.25	13.22									
10	256QAM	25	25	13.34	13.19	13.48	13.20	13.33	14.5	0							
10	256QAM	50	0	13.19	13.25	13.48	13.42	13.34									
Channel				39675	40148	40520	41091	41598									
Frequency (MHz)				2499.5	2649.5	2699	2849.5	2899.5									
5	QPSK	1	0	13.28	13.25	13.40	13.32	13.25	14.5	0							
5	QPSK	1	12	13.29	13.30	13.31	13.33	13.38									
5	QPSK	1	24	13.32	13.30	13.33	13.43	13.38									
5	QPSK	1	36	13.32	13.31	13.34	13.43	13.38									
5	QPSK	12	7	13.17	13.24	13.43	13.31	13.32									
5	QPSK	12	19	13.19	13.19	13.26	13.25	13.28	14.5	0							
5	QPSK	12	31	13.28	13.28	13.36	13.36	13.37									
5	16QAM	1	0	13.26	13.22	13.45	13.31	13.30									
5	16QAM	1	12	13.32	13.25	13.29	13.28	13.27									
5	16QAM	12	6	13.29	13.28	13.36	13.36	13.37									
5	16QAM	12	19	13.24	13.26	13.36	13.36	13.37	14.5	0							
5	16QAM	25	0	13.26	13.19	13.44	13.24	13.30									
5	16QAM	25	6	13.34	13.36	13.36	13.40	13.32									
5	16QAM	50	0	13.27	13.27	13.34	13.39	13.23									
5	16QAM	50	12	13.39	13.22	13.32	13.35	13.31									
5	64QAM	1	12	13.31	13.29	13.32	13.35	13.30	14.5	0							
5	64QAM	1	24	13.32	13.31	13.34	13.43	13.38									
5	64QAM	12	13	13.31	13.29	13.31	13.41	13.30									
5	64QAM	25	0	13.23	13.20	13.32	13.27	13.34									
5	64QAM	25	12	13.32	13.28	13.32	13.37	13.32									
5	256QAM	1	12	13.32	13.29	13.45	13.42	13.37	14.5	0							
5	256QAM	1	24	13.21	13.22	13.41	13.32	13.27									
5	256QAM	12	24	13.22	13.25	13.35	13.31	13.27									
5	256QAM	12	7	13.31	13.32	13.32	13.27	13.35									
5	256QAM	12	19	13.26	13.17	13.37	13.39	13.38									



Reduced Power Mode for DS14

GSM850_Ant 13					GSM850_Ant 31				
TX Channel	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
Frequency (MHz)	158.2	158.4	158.6	Limit	158.2	158.4	158.6	Limit	Limit
GSM 1 Tx ant	32.24	32.24	32.88	34.00	32.74	32.94	33.88	25.00	
GPRS 1 Tx ant	32.87	33.08	33.00	34.00	33.87	34.08	34.00	25.00	
GPRS 2 Tx ant	30.38	30.38	30.52	32.00	24.38	24.38	24.82	20.00	
GPRS 3 Tx ant	28.60	28.61	28.75	30.00	24.34	24.50	24.49	25.74	
GPRS 4 Tx ant	27.78	27.77	27.71	28.00	24.18	24.38	24.31	25.50	
EDGE(GSM) 1 Tx ant	32.70	32.92	32.87	34.00	33.70	33.93	33.87	25.00	
EDGE(GSM) 2 Tx ant	30.29	30.47	30.41	32.00	24.29	24.47	24.41	26.00	
EDGE(GSM) 3 Tx ant	28.43	28.49	28.56	30.00	24.17	24.40	24.50	26.74	
EDGE(GSM) 4 Tx ant	27.04	27.25	27.21	28.50	24.04	24.35	24.21	26.50	
EDGE(PSK) 1 Tx ant	26.12	26.31	26.26	27.00	17.12	17.31	17.26	18.80	
EDGE(PSK) 3 Tx ant	24.85	24.85	24.85	25.00	16.35	16.43	16.43	18.00	
EDGE(PSK) 3 Tx ant	22.48	22.69	22.62	24.00	16.22	16.43	16.36	16.74	
EDGE(PSK) 4 Tx ant	21.04	21.22	21.16	22.50	16.04	16.23	16.16	16.50	

GSM1900_Ant 13					GSM1900_Ant 31				
TX Channel	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
Frequency (MHz)	1850.2	1850.4	1850.6	Limit	1850.2	1850.4	1850.6	Limit	Limit
GSM 1 Tx ant	30.02	30.38	30.24	31.00	21.02	21.38	21.24	22.00	
GPRS 1 Tx ant	28.52	28.24	28.35	31.00	21.80	21.58	21.25	22.00	
GPRS 2 Tx ant	27.83	28.18	28.07	29.00	21.03	21.18	21.07	21.00	
GPRS 3 Tx ant	26.90	26.24	26.10	27.00	21.84	21.98	21.84	22.74	
GPRS 4 Tx ant	24.42	24.77	24.62	25.00	21.42	21.77	21.62	22.50	
EDGE(GSM) 1 Tx ant	28.02	28.29	28.11	31.00	20.02	21.29	21.11	22.00	
EDGE(GSM) 2 Tx ant	27.75	28.11	27.87	29.00	21.75	22.11	21.87	23.00	
EDGE(GSM) 3 Tx ant	25.85	26.22	26.07	27.00	21.58	21.88	21.81	22.74	
EDGE(GSM) 4 Tx ant	24.36	24.73	24.55	25.50	21.36	21.73	21.55	22.50	
EDGE(PSK) 1 Tx ant	25.53	25.90	25.75	26.00	16.53	16.90	16.75	17.80	
EDGE(PSK) 3 Tx ant	24.03	24.36	24.27	23.00	16.03	16.36	16.27	16.90	
EDGE(PSK) 3 Tx ant	21.07	22.21	22.17	23.00	17.71	18.05	17.91	18.74	
EDGE(PSK) 4 Tx ant	20.46	20.61	20.67	21.00	17.46	17.61	17.67	18.50	

WCDMA V_Ant 13					WCDMA V_Ant 31				
TX Channel	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
Frequency (MHz)	868.2	868.4	868.6	Limit	868.2	868.4	868.6	Limit	Limit
SCPP Rel 06	22.73	22.73	22.77	24.00	19.54	19.63	19.63	21.50	
SCPP Rel 06	22.69	22.67	22.83	24.00	19.51	19.75	19.85	21.80	
SCPP Rel 06	21.72	21.78	21.76	23.00	18.83	19.06	19.09	20.80	
SCPP Rel 06	21.70	21.81	21.80	23.00	18.89	19.07	19.09	20.80	
SCPP Rel 06	20.89	21.29	21.25	22.50	18.42	18.47	18.48	20.00	
SCPP Rel 06	21.26	21.26	21.30	22.00	18.34	18.51	18.47	20.00	
SCPP Rel 06	21.63	21.66	21.68	23.00	18.73	18.85	18.82	20.00	
SCPP Rel 06	21.66	21.79	21.79	23.00	18.73	18.88	18.95	20.80	
SCPP Rel 06	20.63	21.25	21.16	22.00	18.37	18.48	18.36	20.00	
SCPP Rel 06	21.17	21.19	21.29	22.50	18.32	18.55	18.44	20.00	
SCPP Rel 06	21.73	21.81	21.82	23.00	18.94	19.10	19.07	20.80	
SCPP Rel 06	19.73	19.70	19.85	21.00	16.85	16.95	16.95	18.50	
SCPP Rel 06	20.71	20.81	20.86	22.00	17.85	18.09	18.24	19.50	
SCPP Rel 06	19.75	19.81	19.88	21.00	16.85	17.06	17.02	18.50	
SCPP Rel 06	21.80	21.80	21.80	23.00	18.91	19.19	19.05	20.80	
SCPP Rel 7	20.24	20.53	20.31	21.50	17.36	17.50	17.49	19.00	

WCDMA V_Ant 13					WCDMA V_Ant 31				
TX Channel	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
Frequency (MHz)	868.2	868.4	868.6	Limit	868.2	868.4	868.6	Limit	Limit
SCPP Rel 06	24.04	24.03	24.00	25.00	23.71	23.74	23.67	26.00	
SCPP Rel 06	24.62	24.63	24.61	25.00	23.87	23.93	23.76	26.00	
SCPP Rel 06	23.07	23.07	23.01	24.00	23.02	22.97	22.94	24.00	
SCPP Rel 06	22.07	22.04	22.04	24.00	22.03	22.03	22.02	24.00	
SCPP Rel 06	22.09	22.09	22.03	23.00	22.01	22.01	22.04	23.00	
SCPP Rel 06	22.63	22.55	22.52	23.50	22.52	22.49	22.44	23.50	
SCPP Rel 06	22.03	22.05	22.00	24.00	22.02	22.02	22.08	24.00	
SCPP Rel 06	22.04	22.02	22.01	24.00	22.08	22.07	22.08	24.00	
SCPP Rel 06	22.58	22.52	22.43	23.50	22.41	22.40	22.39	23.50	
SCPP Rel 06	22.56	22.47	22.44	23.50	22.44	22.44	22.37	23.50	
SCPP Rel 06	22.07	22.04	22.07	24.00	22.06	22.07	22.09	24.00	
SCPP Rel 06	21.83	21.15	20.93	22.00	20.97	20.94	20.97	22.00	
SCPP Rel 06	22.02	22.03	21.95	23.00	21.91	21.90	21.91	23.00	
SCPP Rel 06	20.98	20.99	20.98	22.00	20.98	20.97	20.98	22.00	
SCPP Rel 06	22.00	22.02	22.00	24.00	22.00	22.00	22.00	24.00	
SCPP Rel 7	21.02	21.05	20.91	22.00	20.91	20.90	20.96	22.00	

GSM850_Ant 31					GSM850_Ant 13				
TX Channel	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
Frequency (MHz)	158.2	158.4	158.6	Limit	158.2	158.4	158.6	Limit	Limit
GSM 1 Tx ant	32.19	32.24	32.13	33.80	23.19	23.24	23.13	24.50	
GPRS 1 Tx ant	32.13	32.21	32.17	33.80	23.13	23.21	23.17	24.50	
GPRS 2 Tx ant	29.84	29.86	29.83	31.50	23.84	23.86	23.83	23.50	
GPRS 3 Tx ant	27.97	28.06	28.12	29.50	23.71	23.80	23.86	25.24	
GPRS 4 Tx ant	26.51	26.64	26.69	28.50	23.51	23.64	23.69	25.20	
EDGE(GSM) 1 Tx ant	32.02	32.08	32.12	33.80	23.02	23.08	23.12	24.50	
EDGE(GSM) 2 Tx ant	29.59	29.81	29.70	31.50	23.59	23.81	23.70	23.50	
EDGE(GSM) 3 Tx ant	27.91	27.90	28.06	29.50	23.91	23.90	24.07	23.74	
EDGE(GSM) 4 Tx ant	26.38	26.52	26.54	28.20	23.58	23.52	23.54	23.20	
EDGE(PSK) 1 Tx ant	25.81	25.83	25.86	27.80	16.81	16.83	16.86	18.50	
EDGE(PSK) 3 Tx ant	24.85	24.85	24.85	25.00	16.35	16.43	16.43	18.00	
EDGE(PSK) 3 Tx ant	21.91	21.89	21.94	22.80	17.85	17.83	17.88	18.24	
EDGE(PSK) 4 Tx ant	20.57	20.49	20.61	22.00	17.57	17.49	17.61	18.00	

GSM1900_Ant 31					GSM1900_Ant 13				
TX Channel	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
Frequency (MHz)	1850.2	1850.4	1850.6	Limit	1850.2	1850.4	1850.6	Limit	Limit
GSM 1 Tx ant	29.49	29.85	29.71	31.00	25.49	25.85	25.71	22.00	
GPRS 1 Tx ant	27.47	27.44	27.60	29.00	17.47	17.44	17.60	19.00	
GPRS 2 Tx ant	27.12	27.45	27.14	28.00	21.12	21.45	21.14	21.00	
GPRS 3 Tx ant	26.26	26.51	26.38	27.80	21.00	21.25	21.10	22.74	
GPRS 4 Tx ant	23.83	24.07	23.90	25.00	20.83	21.07	20.92	22.50	
EDGE(GSM) 1 Tx ant	26.46	26.79	26.80	31.00	20.46	20.79	20.60	22.00	
EDGE(GSM) 2 Tx ant	27.03	27.40	27.07	29.00	21.03	21.40	21.07	23.00	
EDGE(GSM) 3 Tx ant	25.17	25.43	25.21	27.00	20.91	21.17	20.95	22.74	
EDGE(GSM) 4 Tx ant	23.50	24.00	23.84	25.50	20.50	21.00	20.84	22.50	
EDGE(PSK) 1 Tx ant	25.01	25.06	25.26	26.00	16.01	16.06	16.26	17.80	
EDGE(PSK) 3 Tx ant	23.47	23.44	23.60	25.00	17.47	17.44	17.60	19.00	
EDGE(PSK) 3 Tx ant	21.45	21.43	21.67	23.00	17.19	17.17	17.41	18.74	
EDGE(PSK) 4 Tx ant	19.91	19.85	20.22	21.50	16.91	16.86	17.22	18.50	

Base		WCDMA IV_Ant 31				WCDMA IV_Ant 13				
TX Channel	Frequency (MHz)	Burst Average Power (dBm)			Time-up	TX Channel	Burst Average Power (dBm)			Time-up
		1712.4	1712.4	1712.4	Limit		1712.4	1712.4	1712.4	Limit
SCPP Rel 06	HSPA Rel 06	22.73	22.73	22.77	24.00	SCPP Rel 06	19.54	19.63	19.63	21.50
SCPP Rel 06	HSPA Rel 06	22.69	22.67	22.83	24.00	SCPP Rel 06	19.51	19.75	19.85	21.80
SCPP Rel 06	HSPA Rel 06	21.72	21.78	21.76	23.00	SCPP Rel 06	18.83	19.06	19.09	20.80
SCPP Rel 06	HSPA Rel 06	21.70	21.81	21.80	23.00	SCPP Rel 06	18.89	19.07	19.09	20.80
SCPP Rel 06	HSPA Rel 06	20.89	21.29	21.25	22.50	SCPP Rel 06	18.42	18.47	18.48	20.00
SCPP Rel 06	HSPA Rel 06	21.26	21.26	21.30	22.00	SCPP Rel 06	18.34	18.51	18.47	20.00
SCPP Rel 06	HSPA Rel 06	21.63	21.66	21.68	23.00	SCPP Rel 06	18.73	18.85	18.82	20.00
SCPP Rel 06	HSPA Rel 06	21.66	21.79	21.79	23.00	SCPP Rel 06	18.73	18.88	18.95	20.80
SCPP Rel 06	HSPA Rel 06	20.63	21.25	21.16	22.00	SCPP Rel 06	18.37	18.48	18.36	20.00
SCPP Rel 06	HSPA Rel 06	21.17	21.19	21.29	22.50	SCPP Rel 06	18.32	18.55	18.44	20.00
SCPP Rel 06	HSPA Rel 06	21.73	21.81	21.82	23.00	SCPP Rel 06	18.94	19.10	19.07	20.80
SCPP Rel 06	HSPA Rel 06	19.73	19.70	19.85	21.00	SCPP Rel 06	16.85	16.95	16.95	18.50
SCPP Rel 06	HSPA Rel 06	20.71	20.81	20.86	22.00	SCPP Rel 06	17.85	18.09	18.24	19.50
SCPP Rel 06	HSPA Rel 06	19.75	19.81	19.88	21.00	SCPP Rel 06	16.85	17.06	17.02	18.50
SCPP Rel 06	HSPA Rel 06	21.80	21.80	21.80	23.00	SCPP Rel 06	18.91	19.19	19.05	20.80
SC						SC				



Band 2_Ant 13															
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Mid Ch / Freq	Power Hw Ch / Freq	Turn-up time (min)	MFR (dB)							
Channel															
Frequency (MHz)				1600	1600	1600									
20	QPSK	1	0	22.82	22.78	22.87	24	0							
20	QPSK	1	49	22.83	22.88	22.83									
20	QPSK	1	99	22.87	22.81	22.75									
20	QPSK	50	0	21.89	21.93	21.89									
20	QPSK	50	24	21.83	21.87	21.80									
20	QPSK	100	0	21.76	21.81	21.76	23	1							
20	16QAM	1	0	22.18	22.28	22.18									
20	16QAM	1	49	22.43	21.98	21.97									
20	16QAM	1	99	22.04	21.80	22.36									
20	16QAM	50	0	20.78	20.82	20.86									
20	16QAM	50	24	20.85	20.81	20.85	22	2							
20	16QAM	100	0	20.87	20.81	20.83									
20	16QAM	1	49	21.29	21.37	21.47									
20	16QAM	1	99	21.02	21.30	21.40									
20	16QAM	50	0	19.84	19.90	19.94									
20	16QAM	50	24	19.85	19.79	19.96	21	3							
20	16QAM	100	0	19.82	19.74	19.86									
20	16QAM	1	49	21.27	21.34	21.49									
20	16QAM	1	99	21.02	21.30	21.40									
20	256QAM	1	0	17.93	18.00	18.02									
20	256QAM	1	49	18.89	18.75	18.75	19	5							
20	256QAM	1	99	17.93	17.97	17.88									
20	256QAM	50	0	17.87	17.93	17.88									
20	256QAM	50	24	17.77	17.77	17.76									
20	256QAM	100	0	17.85	17.85	17.85									
Channel <th>1600</th> <th>1600</th> <th>1600</th> <th>Turn-up time (min)</th> <th>MFR (dB)</th> <th colspan="3"></th>				1600	1600	1600	Turn-up time (min)	MFR (dB)							
Frequency (MHz) <th>1600</th> <th>1600</th> <th>1600</th> <th></th> <th></th> <th colspan="3"></th>				1600	1600	1600									
15	QPSK	1	0	22.78	22.73	22.73	24	0							
15	QPSK	1	37	22.76	22.65	22.67									
15	QPSK	1	74	22.67	22.73	22.66									
15	QPSK	36	0	21.75	21.80	21.75									
15	QPSK	36	20	21.87	21.85	21.72									
15	QPSK	75	0	21.83	21.88	21.83	23	1							
15	QPSK	75	0	21.70	21.62	21.64									
15	16QAM	1	0	22.16	22.22	22.12									
15	16QAM	1	37	22.22	21.80	21.83									
15	16QAM	1	74	21.89	21.81	21.96									
15	16QAM	36	0	20.74	20.75	20.81	22	2							
15	16QAM	36	20	20.79	20.72	20.78									
15	16QAM	75	0	20.77	20.76	20.84									
15	16QAM	75	0	20.77	20.76	20.81									
15	16QAM	1	37	21.20	20.99	21.25									
15	16QAM	1	74	20.99	21.15	21.23	22	2							
15	16QAM	36	0	19.72	19.75	19.87									
15	16QAM	36	20	19.70	19.66	19.82									
15	16QAM	36	39	19.79	19.86	19.71									
15	16QAM	1	0	17.87	17.87	17.86									
15	256QAM	1	0	17.87	17.82	17.84	19	5							
15	256QAM	1	37	17.87	17.82	17.84									
15	256QAM	1	74	17.80	17.85	17.87									
15	256QAM	36	0	17.83	17.80	17.87									
15	256QAM	36	20	17.87	17.85	17.84									
15	256QAM	75	0	17.88	17.87	17.84	20	3							
15	256QAM	75	0	17.88	17.88	17.90									
Channel <th>1600</th> <th>1600</th> <th>1600</th> <th>Turn-up time (min)</th> <th>MFR (dB)</th> <th colspan="3"></th>				1600	1600	1600	Turn-up time (min)					MFR (dB)			
Frequency (MHz) <th>1600</th> <th>1600</th> <th>1600</th> <th></th> <th></th> <th colspan="3"></th>				1600	1600	1600									
10	QPSK	1	0	22.80	22.70	22.73	24	0							
10	QPSK	1	25	22.79	22.78	22.67									
10	QPSK	1	49	22.66	22.78	22.63									
10	QPSK	25	0	21.74	21.81	21.89									
10	QPSK	25	12	21.84	21.86	21.74									
10	QPSK	25	12	21.87	21.79	21.83	23	1							
10	QPSK	50	0	21.74	21.63	21.69									
10	16QAM	1	0	22.12	22.22	22.12									
10	16QAM	1	25	22.30	21.80	21.81									
10	16QAM	1	49	21.91	21.77	22.06									
10	16QAM	25	0	20.80	20.71	20.70	22	2							
10	16QAM	25	12	20.83	20.83	20.79									
10	16QAM	50	0	20.78	20.70	20.83									
10	16QAM	50	0	20.79	20.77	20.78									
10	16QAM	1	25	21.11	20.96	21.32									
10	16QAM	1	25	21.10	20.99	21.25	22	2							
10	16QAM	1	49	20.99	21.22	21.39									
10	16QAM	25	0	19.81	19.85	19.84									
10	16QAM	25	12	19.74	19.77	19.91									
10	16QAM	25	25	19.77	19.86	19.81									
10	16QAM	50	0	17.83	17.82	17.85	19	5							
10	16QAM	1	25	18.03	18.13	18.05									
10	16QAM	1	49	17.85	17.86	17.84									
10	16QAM	25	0	17.85	17.80	17.80									
10	16QAM	25	12	17.74	17.75	17.84									
10	256QAM	50	0	17.88	17.87	17.89	20	3							
10	256QAM	50	0	17.88	17.89	17.91									
Channel <th>1600</th> <th>1600</th> <th>1600</th> <th>Turn-up time (min)</th> <th>MFR (dB)</th> <th colspan="3"></th>				1600	1600	1600	Turn-up time (min)					MFR (dB)			
Frequency (MHz) <th>1600</th> <th>1600</th> <th>1600</th> <th></th> <th></th> <th colspan="3"></th>				1600	1600	1600									
5	QPSK	1	0	22.80	22.77	22.74	24	0							
5	QPSK	1	12	22.79	22.70	22.67									
5	QPSK	1	25	22.78	22.70	22.68									
5	QPSK	12	0	21.72	21.85	21.82									
5	QPSK	12	7	21.90	21.87	21.73									
5	QPSK	12	7	21.93	21.79	21.81	23	1							
5	QPSK	25	0	21.77	21.61	21.68									
5	16QAM	1	0	22.14	22.22	22.12									
5	16QAM	1	12	22.35	21.85	21.87									
5	16QAM	1	25	21.84	21.73	22.04									
5	16QAM	12	0	20.79	20.71	20.76	22	2							
5	16QAM	12	7	20.81	20.87	20.88									
5	16QAM	25	0	20.75	20.62	20.86									
5	16QAM	25	0	20.82	20.71	20.75									
5	16QAM	1	12	21.16	20.92	21.33									
5	16QAM	1	12	21.18	20.98	21.59	22	2							
5	16QAM	1	24	20.98	21.26	21.39									
5	16QAM	12	7	19.80	19.76	19.79									
5	16QAM	12	7	19.83	19.78	19.82	21	3							
5	16QAM	25	0	19.79	19.70	19.83									
5	16QAM	25	12	19.82	19.89	19.89									
5	16QAM	25	0	19.82	19.72	19.82									
5	16QAM	25	12	19.76	19.76	19.80									
5	256QAM	1	12	17.86	18.17	18.08	19	5							
5	256QAM	1	24	17.87	18.02	18.03									
5	256QAM	1	49	17.86	17.93	17.84									
5	256QAM	12	7	17.71	17.77	17.78									
5	256QAM	12	13	17.89	17.85	17.87									
5	256QAM	25	0	17.88	17.88	17.90	20	3							
5	256QAM	25	0	17.88	17.89	17.92									
Channel <th>1600</th> <th>1600</th> <th>1600</th> <th>Turn-up time (min)</th> <th>MFR (dB)</th> <th colspan="3"></th>				1600	1600	1600	Turn-up time (min)					MFR (dB)			
Frequency (MHz) <th>1600</th> <th>1600</th> <th>1600</th> <th></th> <th></th> <th colspan="3"></th>				1600	1600	1600									
1	QPSK	1	0	22.70	22.77	22.70	24	0							
1	QPSK	1	14	22.69	22.74	22.67									
1	QPSK	1	14	22.66	22.66	22.63									
1	QPSK	8	7	21.83	21.72	21.82									
1	QPSK	8	7	21.86	21.64	21.82									
1	QPSK	15	0	22.09	22.30	22.31	23	1							
1	16QAM	1	8	22.38	21.82	21.82									
1	16QAM	8	4	20.83	20.75	20.85									
1	16QAM	8	4	20.87	20.77	20.87									
1	16QAM	15	0	20.75	20.75	20.78									
1	16QAM	1	0	21.20	20.87	21.27	22	2							
1	16QAM	1	8	21.03	20.93	21.03									
1	16QAM	1	14	20.93	21.22	21.38									
1	16QAM	8	0	19.82	19.84	19.88									
1	16QAM	8	7	19.75	19.83	19.82									
1	16QAM	15	0	19.72	19.75	19.86	21	3							
1	16QAM	15	0	19.73	19.78	19.80									
1	16QAM	8	8	18.03	18.15	18.17									
1	256QAM	1	14	17.93	17.89	18.01									
1	256QAM	1	14	17.92	17.86	17.88									
1	256QAM	8	4	17.73	17.87	17.81	19	5							
1	256QAM	8	4	17.71	17.87	17.77									
1	256QAM	15	0	17.89	17.86	17.90									
Channel <th>1600</th> <th>1600</th> <th>1600</th> <th>Turn-up time (min)</th> <th>MFR (dB)</th> <th colspan="3"></th>				1600	1600	1600			Turn-up time (min)	MFR (dB)					
Frequency (MHz) <th>1600</th> <th>1600</th> <th>1600</th> <th></th> <th></th> <th colspan="3"></th>				1600	1600	1600									
1.4	QPSK	1	0	22.80	22.77	22.74	24	0							
1.4	QPSK	1	14	22.79	22.74	22.67									
1.4	QPSK	1	14	22.66	22.76	22.68									
1.4	QPSK	3	0	22.76	22.67	22.68									
1.4	QPSK	3	14	22.72	22.70	22.64									
1.4	QPSK	3	3	22.64	22.66	22.63	23	1							
1.4	QPSK	3	3	21.80	21.71	21.71									
1.4	QPSK	3	14	22.01	22.28	22.28									
1.4	QPSK	3	3	22.40	22.30	22.30									
1.4	QPSK	3	14	22.34	21.79	22.06									
1.4	16QAM	3	0	21.86	21.79	22.06	23	1							
1.4	16QAM	3	14	22.01	22.28	22.28									
1.4	16QAM	3	3	22.30	21.89	22.30									
1.4	16QAM	3	14	22.35	21.79	22.06									
1.4	16QAM	3	3	20.85	20.80	20.80									
1.4	16QAM	0	0	21.19	20.95	21.37	22	2							
1.4	16QAM	0	0	21.20	20.95	21.37									
1.4	16QAM	3	0	21.00	21.19	21.30									
1.4	16QAM	0	0	21.18	20.86	21.33									
1.4	16QAM	0	0	21.24	20.92	21.33									
1.4	16QAM	3	0	20.99	21.19	21.30	22	2							
1.4	16QAM	0	0	19.82	19.78	19.88									
1.4	16QAM	3	0	17.87	17.83	17.88									
1.4	16QAM	3	0	18.02	18.08	18.15									
1.4	16QAM	3	0	17.83	18.00	17.86									
1															



Band 4_Ant 11										
BW (MHz)	Modulation	RS Rate	RS Const.	Power Low Ch / Freq. Ch / Freq.	Power Mid Ch / Freq. Ch / Freq.	Power High Ch / Freq. Ch / Freq.	Turn-up time (min)	MPE (dB)		
Channel										
				20000	20000	20000			20000	20000
				Frequency (MHz)	829	836.5			844	844
20	QPSK	1	0	22.17	22.52	22.19				
20	QPSK	1	49	22.18	22.52	22.52	24	0		
20	QPSK	1	99	22.19	22.52	22.52				
20	QPSK	50	0	21.25	21.28	21.03				
20	QPSK	50	24	21.15	21.22	21.15	23	1		
20	QPSK	50	49	21.11	21.18	21.08				
20	QPSK	100	0	21.21	21.24	21.14				
20	16QAM	1	0	21.48	21.55	21.50				
20	16QAM	1	49	21.53	21.54	21.49	23	1		
20	16QAM	1	99	21.48	21.58	21.54				
20	16QAM	50	0	20.17	20.18	20.15				
20	16QAM	50	24	20.15	20.19	20.20				
20	16QAM	100	0	20.19	20.22	20.13				
20	16QAM	1	0	20.15	20.17	20.14				
20	64QAM	1	49	20.23	20.27	20.32	22	2		
20	64QAM	1	99	20.21	20.23	20.14				
20	64QAM	50	0	19.14	19.24	19.27				
20	64QAM	50	24	19.24	19.25	19.16	21	3		
20	64QAM	100	0	19.24	19.26	19.27				
20	256QAM	1	0	17.16	17.26	17.25				
20	256QAM	1	49	17.27	17.30	17.22	19	5		
20	256QAM	1	99	17.36	17.44	17.44				
20	256QAM	50	0	17.32	17.38	17.32				
20	256QAM	50	24	17.34	17.39	17.29	19	5		
20	256QAM	50	49	17.38	17.39	17.33				
20	256QAM	100	0	17.25	17.37	17.25				
Channel										
				20000	20000	20000			20000	20000
				Frequency (MHz)	1717.5	1717.5			1717.5	1717.5
15	QPSK	1	0	22.14	22.17	22.15				
15	QPSK	1	97	22.17	22.21	22.18	24	0		
15	QPSK	1	99	22.00	22.14	22.14				
15	QPSK	36	0	21.04	21.10	21.04				
15	QPSK	36	20	21.13	21.18	21.13				
15	QPSK	36	97	21.23	21.27	21.17	24	1		
15	QPSK	75	0	21.15	21.18	21.06				
15	16QAM	1	0	21.47	21.54	21.42				
15	16QAM	1	99	21.48	21.53	21.39	23	1		
15	16QAM	1	99	21.44	21.51	21.41				
15	16QAM	36	0	20.15	20.50	20.06				
15	16QAM	36	20	20.14	20.15	20.08				
15	16QAM	36	99	20.17	20.24	20.20	22	2		
15	16QAM	75	0	20.13	20.14	20.08				
15	16QAM	75	0	20.12	20.15	20.07				
15	64QAM	1	97	20.20	20.22	20.21	22	2		
15	64QAM	1	99	20.20	20.17	20.07				
15	64QAM	36	0	19.09	19.25	19.09				
15	64QAM	36	20	19.22	19.23	19.15	21	3		
15	64QAM	36	99	19.19	19.27	19.21				
15	64QAM	75	0	19.18	19.20	19.18				
15	256QAM	1	0	17.11	17.20	17.22				
15	256QAM	1	97	17.21	17.26	17.26	19	5		
15	256QAM	1	99	17.27	17.38	17.42				
15	256QAM	36	0	17.26	17.37	17.23				
15	256QAM	36	20	17.34	17.39	17.34	19	5		
15	256QAM	36	99	17.35	17.34	17.27				
15	256QAM	75	0	17.22	17.28	17.24				
Channel										
				20000	20000	20000			20000	20000
				Frequency (MHz)	1715	1715.5			1715.5	1715.5
10	QPSK	1	0	22.14	22.17	22.15				
10	QPSK	1	25	22.17	22.21	22.18	24	0		
10	QPSK	1	49	22.00	22.14	22.14				
10	QPSK	25	0	21.04	21.10	21.04				
10	QPSK	25	12	21.13	21.18	21.13				
10	QPSK	25	49	21.23	21.27	21.17	24	1		
10	QPSK	50	0	21.15	21.18	21.06				
10	16QAM	1	0	21.47	21.54	21.42				
10	16QAM	1	99	21.48	21.53	21.39	23	1		
10	16QAM	1	49	21.44	21.51	21.44				
10	16QAM	25	0	20.15	20.50	20.06				
10	16QAM	25	12	20.14	20.15	20.08				
10	16QAM	25	25	20.17	20.24	20.20	22	2		
10	16QAM	50	0	20.13	20.14	20.08				
10	16QAM	50	0	20.12	20.15	20.07				
10	64QAM	1	25	20.20	20.22	20.21	22	2		
10	64QAM	1	49	20.20	20.17	20.07				
10	64QAM	25	0	19.09	19.25	19.09				
10	64QAM	25	12	19.22	19.23	19.15	21	3		
10	64QAM	25	25	19.19	19.27	19.21				
10	64QAM	50	0	19.18	19.20	19.18				
10	256QAM	1	0	17.11	17.20	17.22				
10	256QAM	1	25	17.21	17.26	17.26	19	5		
10	256QAM	1	49	17.27	17.38	17.42				
10	256QAM	25	0	17.26	17.37	17.23				
10	256QAM	25	12	17.34	17.39	17.34	19	5		
10	256QAM	25	25	17.35	17.34	17.27				
10	256QAM	50	0	17.22	17.28	17.24				
Channel										
				20000	20000	20000			20000	20000
				Frequency (MHz)	1711.5	1711.5			1711.5	1711.5
3	QPSK	1	0	22.14	22.17	22.15				
3	QPSK	1	8	22.17	22.21	22.18	24	0		
3	QPSK	1	49	22.00	22.14	22.14				
3	QPSK	8	0	21.04	21.10	21.04				
3	QPSK	8	4	21.13	21.18	21.13	23	1		
3	QPSK	8	97	21.23	21.27	21.17				
3	QPSK	16	0	21.15	21.18	21.06				
3	16QAM	1	0	21.47	21.54	21.42				
3	16QAM	1	99	21.48	21.53	21.39	23	1		
3	16QAM	1	14	21.44	21.51	21.44				
3	16QAM	8	0	20.15	20.50	20.06				
3	16QAM	8	4	20.14	20.15	20.08				
3	16QAM	8	7	20.17	20.24	20.20	22	2		
3	16QAM	16	0	20.13	20.14	20.08				
3	16QAM	16	0	20.12	20.15	20.07				
3	64QAM	1	8	20.20	20.22	20.21	22	2		
3	64QAM	1	14	20.20	20.17	20.07				
3	64QAM	8	0	19.09	19.25	19.09				
3	64QAM	8	4	19.22	19.23	19.15	21	3		
3	64QAM	8	7	19.19	19.27	19.21				
3	64QAM	16	0	19.18	19.20	19.18				
3	256QAM	1	0	17.11	17.20	17.22				
3	256QAM	1	8	17.21	17.26	17.26	19	5		
3	256QAM	1	14	17.27	17.38	17.42				
3	256QAM	8	0	17.26	17.37	17.23				
3	256QAM	8	4	17.34	17.39	17.34	19	5		
3	256QAM	8	7	17.35	17.34	17.27				
3	256QAM	16	0	17.22	17.28	17.24	19	5		
Channel										
				20000	20000	20000			20000	20000
				Frequency (MHz)	1711.5	1712			1712	1712
14	QPSK	1	0	22.14	22.17	22.15				
14	QPSK	1	3	22.17	22.21	22.18	24	0		
14	QPSK	1	5	22.00	22.14	22.14				
14	QPSK	3	0	21.06	21.12	21.06				
14	QPSK	3	3	21.10	21.14	21.10				
14	QPSK	3	7	21.14	21.18	21.14	23	1		
14	QPSK	3	11	21.18	21.22	21.18				
14	QPSK	3	15	21.22	21.26	21.22				
14	QPSK	3	19	21.26	21.30	21.26	22	1		
14	16QAM	1	0	21.47	21.54	21.44				
14	16QAM	1	3	21.48	21.53	21.39	23	1		
14	16QAM	1	5	21.46	21.52	21.44				
14	16QAM	3	0	21.45	21.51	21.43				
14	16QAM	3	3	21.47	21.50	21.33				
14	16QAM	3	7	21.48	21.53	21.48				
14	16QAM	6	0	20.13	20.14	20.08	22	2		
14	16QAM	6	3	20.12	20.13	20.07				
14	16QAM	6	5	20.20	20.21	20.21	22	2		
14	16QAM	6	7	20.20	20.19	20.06				
14	16QAM	6	11	20.19	20.18	20.07				
14	16QAM	3	3	20.14	20.12	20.00	21	3		
14	16QAM	6	5	19.18	19.20	19.18				
14	256QAM	1	0	17.12	17.23	17.20				
14	256QAM	1	3	17.21	17.26	17.26	19	5		
14	256QAM	1	5	17.27	17.39	17.42				
14	256QAM	3	0	17.19	17.27	17.27	19	5		
14	256QAM	3	3	17.17	17.19	17.22				
14	256QAM	3	7	17.21	17.29	17.29				
14	256QAM	3	11	17.25	17.33	17.33	19	5		

Band 5_Ant 13										
BW (MHz)	Modulation	RS Size	RS Offset	Power Low Ch / Freq. Ch / Freq.	Power Mid Ch / Freq. Ch / Freq.	Power High Ch / Freq. Ch / Freq.	Turn-up time (Sec)	MPE (dB)		
Channel										
				20000	20000	20000			20000	20000
				Frequency (MHz)	829	836.5			844	844
10	QPSK	1	0	23.64	23.73	23.59				
10	QPSK	1	25	23.71	23.78	23.61	25	0		
10	QPSK	25	0	23.01	22.84	22.73				
10	QPSK	25	12	22.89	22.72	22.65	24	1		
10	QPSK	25	49	22.88	22.72	22.69				
10	QPSK	50	0	22.70	22.73	22.69				
10	16QAM	1	0	22.84	22.98	22.99				
10	16QAM	1	99	22.85	22.92	22.78				
10	16QAM	1	49	23.47	22.92	23.03				
10	16QAM	25	0	21.74	21.77	21.71				
10	16QAM	25	12	21.63	21.65	21.62				
10	16QAM	25	25	21.64	21.76	21.75	23	2		
10	16QAM	50	0	21.77	21.83	21.75				
10	16QAM	50	0	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		
10	64QAM	1	49	22.08	22.12	22.09				
10	64QAM	1	25	21.68	21.87	21.84	23	2		



Band 7_Ant 31																
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time [min]	MPE [dB]								
Channel																
Frequency [MHz]				2506.5	2150	2150										
20	QPSK	1	0	21.31	21.48	21.13										
20	QPSK	1	49	21.35	21.56	21.53	23	0								
20	QPSK	1	99	21.39	21.60	21.54										
20	QPSK	50	0	21.31	21.50	21.21										
20	QPSK	50	24	21.27	21.43	21.14	23	0								
20	QPSK	50	49	21.23	21.43	21.12										
20	QPSK	100	0	21.30	21.49	21.15										
20	16QAM	1	0	21.31	21.49	21.18	23	0								
20	16QAM	1	99	21.27	21.46	21.13										
20	16QAM	50	0	20.90	20.99	20.36										
20	16QAM	50	24	20.93	20.93	20.36	22	1								
20	16QAM	50	50	20.45	20.52	20.30										
20	16QAM	100	0	20.43	20.56	20.35										
20	16QAM	100	24	20.43	20.56	20.35	22	1								
20	16QAM	100	50	20.45	20.52	20.30										
20	64QAM	1	49	20.71	20.75	20.52	22	1								
20	64QAM	1	99	20.67	20.66	20.45										
20	64QAM	50	0	19.92	19.93	19.92										
20	64QAM	50	24	19.48	19.52	19.46	21	2								
20	64QAM	50	49	19.48	19.52	19.39										
20	256QAM	1	0	17.04	17.13	17.03										
20	256QAM	1	49	17.19	17.21	17.03	19	4								
20	256QAM	1	99	17.11	17.22	17.01										
20	256QAM	50	0	17.18	17.19	17.02										
20	256QAM	50	24	17.18	17.23	17.25	19	4								
20	256QAM	50	49	17.18	17.23	17.25										
20	256QAM	100	0	17.11	17.21	17.23										
Channel				2506.5	2150	2150	Turn-up time [min]	MPE [dB]								
Frequency [MHz]				2505.5	2150	2150										
15	QPSK	1	0	21.20	21.42	21.14										
15	QPSK	1	37	21.34	21.56	21.17	23	0								
15	QPSK	1	74	21.26	21.49	21.08										
15	QPSK	36	0	21.26	21.48	21.11										
15	QPSK	36	20	21.19	21.37	21.09	23	0								
15	QPSK	36	123	21.24	21.38	21.08										
15	QPSK	75	0	21.20	21.41	21.07										
15	16QAM	1	0	21.24	21.48	21.17										
15	16QAM	1	37	21.17	21.41	21.12	23	0								
15	16QAM	1	74	21.20	21.39	21.10										
15	16QAM	36	0	20.42	20.35	20.19										
15	16QAM	36	20	20.35	20.29	20.24	22	1								
15	16QAM	36	39	20.35	20.29	20.12										
15	16QAM	75	0	20.34	20.28	20.19										
15	16QAM	75	20	20.27	20.21	20.08	22	1								
15	64QAM	1	37	20.42	20.44	20.34										
15	64QAM	1	74	20.48	20.49	20.39	22	1								
15	64QAM	36	0	19.38	19.32	19.19										
15	64QAM	36	20	19.32	19.27	19.22	21	2								
15	64QAM	36	39	19.34	19.25	19.12										
15	64QAM	75	0	19.34	19.29	19.19										
15	256QAM	1	0	17.03	17.15	17.07										
15	256QAM	1	37	17.19	17.19	17.03	19	4								
15	256QAM	1	74	17.05	17.22	17.02										
15	256QAM	36	0	17.04	17.08	17.04										
15	256QAM	36	20	17.07	17.07	17.01	19	4								
15	256QAM	36	39	17.12	17.19	17.12										
15	256QAM	75	0	17.08	17.22	17.22										
Channel				2506.5	2150	2150	Turn-up time [min]	MPE [dB]								
Frequency [MHz]				2505.5	2150	2150										
10	QPSK	1	0	21.20	21.42	21.07										
10	QPSK	1	25	21.31	21.51	21.15	23	0								
10	QPSK	1	123	21.40	21.62	21.23										
10	QPSK	25	0	21.26	21.49	21.15										
10	QPSK	25	12	21.20	21.36	21.05	23	0								
10	QPSK	25	124	21.23	21.37	21.08										
10	QPSK	50	0	21.25	21.49	21.11										
10	16QAM	1	0	21.25	21.42	21.12										
10	16QAM	1	49	21.20	21.42	21.13	23	0								
10	16QAM	25	0	20.99	20.42	20.25										
10	16QAM	25	12	20.49	20.39	20.28	22	1								
10	16QAM	25	25	20.48	20.39	20.28										
10	16QAM	50	0	20.49	20.37	20.24										
10	64QAM	1	0	20.65	20.46	20.21										
10	64QAM	1	25	20.59	20.65	20.57	22	1								
10	64QAM	1	49	20.67	20.67	20.55										
10	64QAM	25	0	19.91	19.47	19.24	21	2								
10	64QAM	25	12	19.45	19.39	19.24										
10	256QAM	1	0	17.05	17.11	17.03										
10	256QAM	1	25	17.19	17.14	17.03	19	4								
10	256QAM	1	49	17.11	17.25	17.07										
10	256QAM	25	0	17.05	17.18	17.02										
10	256QAM	25	12	17.20	17.06	17.23	19	4								
10	256QAM	25	25	17.15	17.17	17.01										
10	256QAM	50	0	17.04	17.08	17.15										

Band 7_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Pwr High Ch / Freq.	Power Pwr Middle Ch / Freq.	Power Pwr Low Ch / Freq.	Turn-up time [min]	MPE [dB]		
Channel										
Frequency [MHz]				20650	21100	21550				
20	QPSK	1	0	22.31	22.29	22.19				
20	QPSK	1	49	22.43	22.51	22.26	23.5	0		
20	QPSK	50	0	21.48	21.51	21.53				
20	QPSK	50	24	21.44	21.49	21.33	22.5	1		
20	QPSK	50	49	21.40	21.43	21.31				
20	QPSK	100	0	21.43	21.49	21.37				
20	16QAM	1	0	21.69	21.62	21.47	22.5	1		
20	16QAM	1	99	21.69	21.69	21.68				
20	16QAM	50	0	20.48	20.46	20.31				
20	16QAM	50	24	20.49	20.45	20.27	21.5	2		
20	16QAM	50	49	20.51	20.53	20.42				
20	64QAM	1	49	20.57	20.57	20.52	21.5	2		
20	64QAM	1	99	20.50	20.53	20.54				
20	64QAM	50	0	19.48	19.46	19.31	20.5	3		
20	64QAM	50	24	19.50	19.42	19.41				
20	256QAM	1	0	17.32	17.44	17.37				
20	256QAM	1	49	17.42	17.41	17.39	18.5	5		
20	256QAM	50	0	17.32	17.39	17.27				
20	256QAM	50	24	17.30	17.46	17.37				
20	256QAM	50	49	17.38	17.41	17.43	18.5	5		
20	256QAM	100	0	17.38	17.43	17.32				
Channel										
Frequency [MHz]				20625	21050	21475	Turn-up time [min]	MPE [dB]		
15	QPSK	1	0	22.43	22.34	22.22				
15	QPSK	1	37	22.44	22.37	22.32	23.5	0		
15	QPSK	1	74	22.43	22.52	22.23				
15	QPSK	1	111	21.52	21.44	21.38				
15	QPSK	36	20	21.48	21.44	21.38	22.5	1		
15	QPSK	36	57	21.46	21.42	21.31				
15	QPSK	75	0	21.48	21.51	21.52				
15	16QAM	1	0	21.69	21.70	21.52	22.5	1		
15	16QAM	1	37	21.70	21.71	21.61				
15	16QAM	1	74	21.84	21.81	21.82				
15	16QAM	36	38	20.48	20.45	20.34				
15	16QAM	36	75	20.49	20.45	20.38				
15	16QAM	75	0	20.45	20.40	20.35	21.5	2		
15	16QAM	75	37	20.46	20.43	20.35				
15	64QAM	1	111	20.53	20.54	20.45	21.5	2		
15	64QAM	1	74	20.58	20.65	20.49				
15	64QAM	36	20	20.48	20.45	20.34				
15	64QAM	36	57	20.42	20.45	20.34				
15	256QAM	36	20	19.44	19.42	19.35				
15	256QAM	36	75	19.44	19.42	19.35				
15	256QAM	75	0	17.27	17.37	17.25				
15	256QAM	1	37	17.43	17.32	17.34	18.5	5		
15	256QAM	1	74	17.42	17.41	17.37				
15	256QAM	36	20	17.26	17.36	17.25				
15	256QAM	36	57	17.41	17.30	17.29	18.5	5		
15	256QAM	75	0	17.25	17.33	17.23				
15	256QAM	75	0	17.26	17.36	17.26				
Channel										
Frequency [MHz]				20675	21100	21450	Turn-up time [min]	MPE [dB]		
5	QPSK	1	0	22.46	22.38	22.27				
5	QPSK	1	28	22.42	22.48	22.48	23.5	0		
5	QPSK	1	49	22.47	22.59	22.47				
5	QPSK	25	0	21.57	21.52	21.50	22.5	1		
5	QPSK	25	12	21.53	21.49	21.58				
5	QPSK	25	12	21.48	21.48	21.59	22.5	1		
5	QPSK	25	25	21.46	21.48	21.51				
5	QPSK	25	25	21.50	21.50	21.48				
5	16QAM	1	0	21.77	21.57	21.63	22.5	1		
5	16QAM	1	28	21.77	21.63	21.73				
5	16QAM	1	49	21.82	21.74	21.80				
5	16QAM	25	0	20.57	20.50	20.44				
5	16QAM	25	12	20.58	20.53	20.54	21.5	2		
5	16QAM	25	25	20.50	20.46	20.47				
5	16QAM	50	0	20.45	20.42	20.44				
5	16QAM	50	12	20.46	20.43	20.54				
5	16QAM	1	25	20.71	20.59	20.65	21.5	2		
5	64QAM	1	49	20.65	20.67	20.73				
5	64QAM	1	28	20.66	20.67	20.73				
5	64QAM	25	12	19.53	19.46	19.45	20.5	3		
5	256QAM	1	25	19.49	19.45	19.45				
5	256QAM	1	49	19.45	19.45	19.45				
5	256QAM	1	0	17.35	17.33	17.31				
5	256QAM	1	25	17.38	17.29	17.39	18.5	5		
5	256QAM	25	0	17.35	17.35	17.35				
5	256QAM	25	0	17.34	17.41	17.28				
5	256QAM	25	12	17.38	17.28	17.42	18.5	5		
5	256QAM	25	12	17.35	17.35	17.35				
5	256QAM	50	0	17.40	17.36	17.28				
Channel										
Frequency [MHz]				20775	21100	21425	Turn-up time [min]	MPE [dB]		
5	QPSK	1	0	22.46	22.38	22.27				
5	QPSK	1	12	22.41	22.55	22.46	23.5	0		
5	QPSK	1	24	22.49	22.58	22.42				
5	QPSK	12	0	21.54	21.51	21.52	22.5	1		
5	QPSK	12	7	21.60	21.61	21.56				
5	QPSK	12	15	21.55	21.44	21.69	22.5	1		
5	QPSK	12	15	21.50	21.49	21.43				
5	16QAM	1	0	21.91	21.83	21.79	22.5	1		
5	16QAM	1	12	21.91	21.83	21.89				
5	16QAM	1	24	21.73	21.69	21.87				
5	16QAM	12	0	20.55	20.40	20.42				
5	16QAM	12	7	20.56	20.45	20.50				
5	16QAM	12	15	20.48	20.45	20.50	21.5	2		
5	16QAM	25	0	20.54	20.43	20.45				
5	16QAM	25	7	20.54	20.43	20.45				
5	16QAM	1	12	20.63	20.72	20.75	21.5	2		
5	64QAM	1	24	20.76	20.67	20.64				
5	64QAM	1	12	20.76	20.67	20.64				
5	64QAM	12	0	19.54	19.46	19.49				
5	64QAM	12	13	19.59	19.47	19.45				
5	64QAM	12	24	19.43	19.43	19.44				
5	256QAM	1	0	17.21	17.42	17.28				
5	256QAM	1	12	17.43	17.39	17.37	18.5	5		
5	256QAM	1	24	17.38	17.32	17.28				
5	256QAM	12	0	17.32	17.48	17.28				
5	256QAM	12	7	17.26	17.33	17.42	18.5	5		
5	256QAM	12	15	17.28	17.52	17.28				
5	256QAM	25	0	17.25	17.34	17.17				



Band 13_Ant 13												
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
2320												
10	QPSK	1	0	22.87			24	0				
10	QPSK	1	25	23.08								
10	QPSK	1	49	22.78								
10	QPSK	25	0	21.89			23	1				
10	QPSK	25	12	21.84								
10	QPSK	25	25	21.84								
10	QPSK	50	0	21.85			23	1				
10	16QAM	1	0	22.26								
10	16QAM	1	25	21.89								
10	16QAM	1	49	22.54			22	2				
10	16QAM	25	0	20.96								
10	16QAM	25	12	20.96								
10	16QAM	25	25	20.95			22	2				
10	16QAM	50	0	20.82								
10	16QAM	1	0	21.27								
10	16QAM	1	25	21.25			22	2				
10	16QAM	1	49	21.17								
10	16QAM	25	0	19.97								
10	16QAM	25	12	19.87			21	3				
10	16QAM	25	25	19.87								
10	16QAM	50	0	19.90								
10	256QAM	1	0	17.88			19	5				
10	256QAM	1	25	18.02								
10	256QAM	1	49	17.96								
10	256QAM	25	0	17.98			19	5				
10	256QAM	25	12	17.94								
10	256QAM	25	25	17.99								
10	256QAM	50	0	17.92								
Channel												
Frequency (MHz)												
23205												
5	QPSK	1	0	22.88	22.87	22.73	24	0				
5	QPSK	1	12	22.89	22.91	22.86						
5	QPSK	1	24	22.78	22.81	22.87						
5	QPSK	12	0	21.88	21.90	21.82	23	1				
5	QPSK	12	7	21.89	21.93	21.87						
5	QPSK	12	13	21.98	21.98	21.99						
5	QPSK	25	0	21.92	21.94	21.85	23	1				
5	16QAM	1	0	22.31	22.08	22.11						
5	16QAM	1	12	22.48	21.95	22.11						
5	16QAM	1	24	22.14	22.00	22.19	22	2				
5	16QAM	12	0	20.88	21.64	21.00						
5	16QAM	12	7	20.94	21.01	20.93						
5	16QAM	12	13	21.07	20.89	20.81	22	2				
5	16QAM	25	0	20.91	20.86	20.76						
5	16QAM	1	0	20.94	21.15	21.08						
5	16QAM	1	12	20.87	21.05	20.92	22	2				
5	16QAM	1	24	21.14	21.07	21.12						
5	16QAM	12	0	19.80	19.87	19.93						
5	16QAM	12	7	19.90	19.94	19.78	21	3				
5	16QAM	12	13	19.89	19.93	19.96						
5	16QAM	25	0	19.90	19.95	19.78						
5	256QAM	1	0	17.79	17.80	17.67	19	5				
5	256QAM	1	12	17.87	18.02	17.85						
5	256QAM	1	24	17.88	17.91	17.88						
5	256QAM	12	0	17.87	17.83	17.77	19	5				
5	256QAM	12	7	17.94	17.83	17.86						
5	256QAM	12	13	17.85	17.88	17.73						
5	256QAM	25	0	17.89	17.91	17.87						

Band 13_Ant 31												
BW [MHz]	Modulation	RB Size	RE Config	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
2320												
10	QPSK	1	0	22.53			24	0				
10	QPSK	1	25	22.67								
10	QPSK	1	49	22.52								
10	QPSK	25	0	21.68			23	1				
10	QPSK	25	12	21.62								
10	QPSK	25	25	21.61								
10	QPSK	50	0	21.71			23	1				
10	16QAM	1	0	22.09								
10	16QAM	1	25	21.98								
10	16QAM	1	49	22.18			22	2				
10	16QAM	25	0	20.61								
10	16QAM	25	12	20.61								
10	16QAM	25	25	20.79			22	2				
10	16QAM	50	0	20.80								
10	16QAM	1	0	21.09								
10	16QAM	1	25	21.41			22	2				
10	16QAM	1	49	20.95								
10	16QAM	25	0	19.87								
10	16QAM	25	12	19.71			21	3				
10	16QAM	25	25	19.85								
10	16QAM	50	0	19.83								
10	256QAM	1	0	17.77			19	5				
10	256QAM	1	25	17.77								
10	256QAM	1	49	17.75								
Channel												
Frequency (MHz)												
23205												
5	QPSK	1	0	22.27	22.50	22.49	24	0				
5	QPSK	1	12	22.39	22.64	22.58						
5	QPSK	1	24	22.33	22.55	22.45						
5	QPSK	12	0	21.40	21.59	21.58	23	1				
5	QPSK	12	7	21.41	21.65	21.57						
5	QPSK	12	13	21.43	21.48	21.51						
5	QPSK	25	0	21.39	21.62	21.58	23	1				
5	16QAM	1	0	21.57	21.92	21.86						
5	16QAM	1	12	21.67	22.18	21.81						
5	16QAM	1	24	21.67	21.73	21.99	22	2				
5	16QAM	12	0	20.43	20.51	20.66						
5	16QAM	12	7	20.42	20.44	20.72						
5	16QAM	12	13	20.47	20.76	20.70	22	2				
5	16QAM	25	0	20.40	20.61	20.62						
5	16QAM	1	0	20.93	20.90	21.23						
5	16QAM	1	12	20.60	20.85	21.35	22	2				
5	16QAM	1	24	20.59	20.77	21.00						
5	16QAM	12	0	19.42	19.75	19.98						
5	16QAM	12	7	19.40	19.57	19.70	21	3				
5	16QAM	12	13	19.44	19.77	19.82						
5	16QAM	25	0	19.40	19.57	19.73						
5	256QAM	1	0	17.63	17.70	17.74	19	5				
5	256QAM	1	12	17.62	17.87	17.86						
5	256QAM	1	24	17.65	17.82	17.64						
5	256QAM	12	0	17.66	17.70	17.67	19	5				
5	256QAM	12	7	17.72	17.73	17.73						
5	256QAM	12	13	17.64	17.57	17.48						
5	256QAM	25	0	17.61	17.62	17.61						

Band 17_Ant 13												
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch [F, Ch]	Power Mid Ch [F, Ch]	Power High Ch [F, Ch]	Turnup time (dB)	MPE (dB)				
Channel				2370	2370	2380						
Frequency (MHz)												
10	QPSK	1	0	22.96	23.04	22.92	24.5	0				
10	QPSK	1	25	23.20	23.24	23.15						
10	QPSK	1	49	23.07	23.12	23.05						
10	QPSK	25	0	22.21	22.24	22.22	23.5	1				
10	QPSK	25	12	22.09	22.20	22.18						
10	QPSK	25	25	22.08	22.12	22.12						
10	QPSK	50	0	22.11	22.16	22.09	23.5	1				
10	16QAM	1	0	22.43	22.28	22.22						
10	16QAM	1	25	22.41	22.27	22.24						
10	16QAM	1	49	22.50	22.41	22.31	22.5	2				
10	16QAM	25	0	21.18	21.01	21.10						
10	16QAM	25	12	21.16	21.03	21.05						
10	16QAM	25	25	21.17	21.06	21.16	22.5	2				
10	16QAM	50	0	21.27	21.07	21.03						
10	16QAM	1	20	21.10	21.15	21.02						
10	16QAM	1	20	21.80	21.49	21.10	22.5	2				
10	16QAM	1	49	21.31	21.64	21.43						
10	16QAM	1	25	21.30	21.63	21.43						
10	16QAM	25	0	20.15	20.05	20.05	21.5	3				
10	16QAM	25	12	20.16	20.05	20.05						
10	16QAM	25	25	20.14	20.18	20.09						
10	256QAM	1	0	18.45	18.44	18.43	19.5	5				
10	256QAM	1	20	18.31	18.42	18.29						
10	256QAM	1	25	18.36	18.34	18.36						
10	256QAM	25	0	18.29	18.29	18.29	19.5	5				
10	256QAM	25	12	18.28	18.32	18.30						
10	256QAM	25	25	18.30	18.33	18.28						
10	256QAM	50	0	18.33	18.31	18.30	19.5	5				
Channel				2375	2375	2385						
Frequency (MHz)										Turn-up time (dB)	MPE (dB)	
5	QPSK	1	0	23.14	23.14	23.05	24.5	0				
5	QPSK	1	12	23.12	23.22	23.15						
5	QPSK	1	24	23.20	23.21	23.08						
5	QPSK	12	0	22.18	22.21	22.18	24.5	0				
5	QPSK	12	12	22.24	22.28	22.14						
5	QPSK	12	24	22.24	22.28	22.24						
5	QPSK	12	12	22.24	22.28	22.24	23.5	1				
5	16QAM	1	0	22.67	22.70	22.24						
5	16QAM	1	12	22.75	22.80	22.42						
5	16QAM	1	24	22.84	22.84	22.44	23.5	1				
5	16QAM	12	0	21.23	21.08	21.14						
5	16QAM	12	7	21.33	21.31	21.14						
5	16QAM	12	7	21.24	21.24	21.27	22.5	2				
5	16QAM	25	0	21.24	21.17	21.16						
5	16QAM	1	0	21.21	21.16	21.38						
5	16QAM	1	0	21.24	21.16	21.38	22.5	2				
5	16QAM	1	24	21.16	21.62	21.58						
5	16QAM	1	24	21.16	21.62	21.58						
5	256QAM	12	0	20.32	20.19	20.20	21.5	3				
5	256QAM	12	19	20.17	20.32	20.25						
5	256QAM	12	19	20.17	20.32	20.25						
5	256QAM	1	0	18.46	18.33	18.33	19.5	5				
5	256QAM	1	12	18.47	18.42	18.24						
5	256QAM	1	12	18.47	18.42	18.24						
5	256QAM	12	0	18.19	18.20	18.22	19.5	5				
5	256QAM	12	7	18.27	18.35	18.21						
5	256QAM	12	7	18.27	18.35	18.21						
5	256QAM	25	0	18.21	18.21	18.05	19.5	5				
5	256QAM	25	0	18.21	18.21	18.05						
5	256QAM	25	0	18.21	18.21	18.05						

Band 26_Ant 13																
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turn-up Incl (dB)	MPR (dB)								
Channel																
				26765	26765	26765										
				821.5	821.5	821.5										
16	QPSK	1	0	23.38	23.27	23.35	25	0								
15	QPSK	1	37	23.40	23.53	23.43										
14	QPSK	1	74	23.32	23.28	23.30										
15	QPSK	36	20	22.47	22.48	22.37										
15	QPSK	36	39	22.42	22.48	22.38										
15	QPSK	75	0	22.40	22.46	22.40	24	1								
15	16QAM	1	0	22.58	22.59	22.29										
15	16QAM	1	37	22.57	22.53	22.58										
15	16QAM	1	74	22.38	22.84	22.60										
15	16QAM	36	0	21.46	21.46	21.47										
15	16QAM	36	20	21.50	21.52	21.50	23	2								
15	16QAM	36	39	21.63	21.48	21.44										
15	16QAM	75	0	21.47	21.47	21.42										
15	64QAM	1	0	21.71	21.70	21.59										
15	64QAM	1	37	21.35	21.28	21.58										
15	64QAM	1	74	21.23	21.24	21.72	23	2								
15	64QAM	36	0	20.58	20.44	20.49										
15	64QAM	36	20	20.63	20.47	20.43										
15	64QAM	36	39	20.52	20.46	20.44										
15	64QAM	75	0	20.54	20.43	20.40										
15	256QAM	1	0	18.99	18.94	18.94	20	5								
15	256QAM	1	37	18.96	18.91	18.92										
15	256QAM	1	74	19.08	19.06	19.09										
15	256QAM	36	0	18.93	18.97	18.95										
15	256QAM	36	20	18.95	18.99	18.94										
15	256QAM	36	39	19.02	19.03	18.98	20	5								
15	256QAM	75	0	18.93	18.96	18.87										
Channel																
				26760	26760	26760										
				811.5	811.5	811.5										
16	QPSK	1	0	23.17	23.04	23.04	25		0							
15	QPSK	1	25	23.22	23.30	23.28										
15	QPSK	1	49	23.12	23.11	23.07										
15	QPSK	25	0	22.28	22.15	22.24										
15	QPSK	25	12	22.22	22.21	22.28										
15	QPSK	25	25	22.22	22.33	22.21	24	1								
15	QPSK	50	0	22.38	22.17	22.27										
15	16QAM	1	0	22.33	22.71	22.31										
15	16QAM	1	25	22.17	22.55	22.38										
15	16QAM	1	49	22.15	22.87	22.43										
15	16QAM	25	0	21.22	21.26	21.26	23	2								
15	16QAM	25	12	21.34	21.31	21.40										
15	16QAM	25	25	21.39	21.24	21.24										
15	16QAM	50	0	21.28	21.24	21.20										
15	16QAM	1	0	21.47	21.52	21.41										
15	64QAM	1	25	21.18	21.12	21.55	23	2								
15	64QAM	1	49	21.02	21.00	21.46										
15	64QAM	25	0	20.53	20.26	20.31										
15	64QAM	25	12	20.58	20.24	20.18										
15	64QAM	25	25	20.50	20.27	20.19										
15	64QAM	50	0	20.59	20.25	20.21	22	3								
15	256QAM	1	0	18.99	18.95	18.91										
15	256QAM	1	25	18.91	18.79	18.83										
15	256QAM	1	49	19.07	19.03	19.08										
15	256QAM	25	0	18.91	18.94	18.85										
15	256QAM	25	12	18.94	18.93	18.87	20	5								
15	256QAM	25	25	18.95	18.97	18.93										
15	256QAM	50	0	18.74	18.87	18.77										
Channel																
				26765	26765	26765										
				811.5	811.5	811.5										
5	QPSK	1	0	23.14	23.05	23.02	25	0								
5	QPSK	1	12	23.15	23.32	23.18										
5	QPSK	1	24	23.11	23.07	23.05										
5	QPSK	12	0	22.25	22.11	22.25										
5	QPSK	12	7	22.28	22.20	22.27										
5	QPSK	12	13	22.32	22.34	22.32	24	1								
5	QPSK	25	0	22.43	22.19	22.23										
5	16QAM	1	0	22.41	22.70	22.13										
5	16QAM	1	12	22.13	22.60	22.41										
5	16QAM	1	24	22.21	22.80	22.41										
5	16QAM	12	0	21.21	21.26	21.29	23	2								
5	16QAM	12	7	21.25	21.30	21.38										
5	16QAM	12	13	21.41	21.25	21.27										
5	16QAM	25	0	21.30	21.23	21.17										
5	16QAM	1	0	21.46	21.53	21.38										
5	64QAM	1	12	21.17	21.07	21.64	23	2								
5	64QAM	1	24	21.01	21.01	21.47										
5	64QAM	12	0	20.38	20.20	20.25										
5	64QAM	12	7	20.44	20.22	20.23										
5	64QAM	12	13	20.34	20.20	20.27										
5	64QAM	25	0	20.59	20.19	20.20	22	3								
5	256QAM	1	0	18.92	18.96	18.81										
5	256QAM	1	12	18.97	18.79	18.91										
5	256QAM	1	24	18.97	19.08	18.92										
5	256QAM	12	0	18.89	18.97	18.86										
5	256QAM	12	7	18.92	18.96	18.87	20	5								
5	256QAM	12	13	18.96	19.06	18.95										
5	256QAM	25	0	18.77	18.99	18.78										
Channel																
				26760	26760	26760										
				811.5	811.5	811.5										
3	QPSK	1	0	23.15	23.09	23.03	25	0								
3	QPSK	1	8	23.24	23.39	23.20										
3	QPSK	1	14	23.15	23.07	23.03										
3	QPSK	8	0	22.31	22.18	22.23										
3	QPSK	8	4	22.22	22.10	22.28										
3	QPSK	8	7	22.25	22.36	22.32	24	1								
3	QPSK	15	0	22.41	22.16	22.24										
3	16QAM	1	0	22.39	22.68	22.07										
3	16QAM	1	8	22.13	22.67	22.38										
3	16QAM	1	14	22.14	22.82	22.41										
3	16QAM	8	0	21.28	21.26	21.28	23	2								
3	16QAM	8	4	21.28	21.33	21.41										
3	16QAM	8	7	21.23	21.24	21.31										
3	16QAM	15	0	21.26	21.28	21.20										
3	16QAM	1	0	21.51	21.54	21.41										
3	64QAM	1	8	21.18	21.12	21.55	23	2								
3	64QAM	1	14	21.05	21.07	21.52										
3	64QAM	8	0	20.38	20.23	20.29										
3	64QAM	8	4	20.44	20.22	20.23										
3	64QAM	8	7	20.32	20.28	20.26										
3	64QAM	15	0	20.58	20.26	20.19	22	3								
3	256QAM	1	0	18.92	18.96	18.81										
3	256QAM	1	8	18.99	18.89	18.86										
3	256QAM	1	14	18.97	18.98	18.92										
3	256QAM	8	0	18.79	18.95	18.85										
3	256QAM	8	4	18.82	18.96	18.87	20	5								
3	256QAM	8	7	18.86	18.96	18.87										
3	256QAM	15	0	18.68	18.96	18.75										
Channel																
				26767	26767	26767										
				811.5	811.5	811.5										
14	QPSK	1	0	23.17	23.05	23.02	25	0								
14	QPSK	1	3	23.24	23.36	23.26										
14	QPSK	1	5	23.11	23.08	23.07										
14	QPSK	1	10	23.01	23.02	23.03										
14	QPSK	1	15	23.19	23.29	23.15										
14	QPSK	3	0	23.10	23.02	23.00	24	1								
14	QPSK	3	3	23.18	23.22	23.08										
14	16QAM	1	0	22.38	22.68	22.08										
14	16QAM	1	3	22.70	22.60	22.41										
14	16QAM	1	5	22.60	22.63	22.45										
14	16QAM	3	0	22.36	22.53	22.32	23	2								
14	16QAM	3	3	22.09	22.59	22.34										
14	16QAM	6	0	21.23	21.29	21.22										
14	16QAM	1	0	21.52	21.47	21.38										
14	16QAM	1	3	21.07	21.48	21.34										
14	16QAM	1	6	21.00	21.08	21.53	23	2								
14	16QAM	3	0	21.50	21.40	21.31										
14	16QAM	3	3	21.14	21.06	21.37										
14	16QAM	3	6	21.02	21.01	21.48										
14	16QAM	6	0	20.88	20.98	20.23										
14	16QAM	6	3	18.81	18.86	18.86	22	3								
14	256QAM	1	3	18.93	18.94	18.82										
14	256QAM	1	6	18.95	18.96	18.82										
14	256QAM	3	0	18.91	18.96	18.82										
14	256QAM	3	3	18.94	18.98	18.73										
14	256QAM	6	0	18.90	18.94	18.86	20	5								
14	256QAM	6	3	18.88	18.96	18.75										
Channel																
				26767	26767	26767										
				811.5	811.5	811.5										
14	QPSK	1	0	23.17	23.05	23.02	25		0							
14	QPSK	1	3	23.24	23.36	23.26										
14	QPSK	1	5	23.11	23.08	23.07										
14	QPSK	1	10	23.01	23.02	23.03										
14	QPSK	1	15	23.19	23.29	23.15										
14	QPSK	3	0	23.10	23.02	23.00	24	1								
14	QPSK	3	3	23.18	23.22	23.08										
14	16QAM	1	0	22.38	22.68	22.08										
14	16QAM	1	3	22.70	22.60	22.41										
14	16QAM	1	5	22.60	22.63	22.45										
14	16QAM	3	0	22.36	22.53	22.32	23	2								
14	16QAM	3	3	22.09	22.59	22.34										
14	16QAM	6	0	21.23	21.29	21.22										
14	16QAM	1	0	21.52	21.47	21.38										
14	16QAM	1	3	21.07	21.48	21.34										
14	16QAM	1	6	21.00	21.08	21.53	23	2								
14	16QAM	3	0	21.50	21.40	21.31										
14	16QAM	3	3	21.14	21.06	21.37										
14	16QAM	3	6	21.02	21.01	21.48										
14	16QAM	6	0	20.88	20.98	20.23										

Band 66_Ant 31														
(BW [MHz])	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-up (min)	MFR (dB)						
Channel														
				130272	132522	132672								
Frequency (MHz)				1720	1746	1762								
20	QPSK	1	0	20.79	20.79	20.80	22.5	0						
20	QPSK	1	49	20.84	21.05	20.89								
20	QPSK	1	49	20.83	20.85	20.87								
20	QPSK	50	0	20.87	20.92	20.95								
20	QPSK	50	24	20.84	20.82	20.81								
20	QPSK	50	0	20.81	20.82	20.83	22.5	0						
20	QPSK	100	0	20.76	20.80	20.84								
20	16QAM	1	0	20.87	20.80	20.79								
20	16QAM	1	49	20.75	20.73	20.77								
20	16QAM	50	0	20.72	20.95	20.86								
20	16QAM	50	24	20.88	20.86	20.81	22.5	0						
20	16QAM	50	50	20.79	20.84	20.88								
20	16QAM	100	0	20.90	20.89	20.77								
20	16QAM	1	0	20.73	20.87	20.79								
20	16QAM	1	49	20.79	20.87	20.85								
20	64QAM	1	0	19.99	20.92	20.90	21.5	1						
20	64QAM	50	0	19.98	20.92	20.90								
20	64QAM	50	24	20.01	20.01	20.01								
20	64QAM	100	0	19.98	20.92	19.96								
20	64QAM	1	0	17.68	17.79	17.77								
20	256QAM	1	49	17.85	17.82	17.74	19.5	3						
20	256QAM	1	99	17.87	17.82	17.73								
20	256QAM	50	0	17.74	17.77	17.72								
20	256QAM	50	24	17.67	17.78	17.79								
20	256QAM	50	50	17.72	17.83	17.83								
20	256QAM	100	0	17.74	17.85	17.79	22.5	0						
Channel														
				130407	132522	132672								
Frequency (MHz)				1717	1746	1775								
15	QPSK	1	0	20.73	20.67	20.77			22.5	0				
15	QPSK	1	37	20.86	20.81	20.83								
15	QPSK	1	14	20.79	20.74	20.74								
15	QPSK	36	0	20.81	20.80	20.78								
15	QPSK	36	20	20.79	20.73	20.74								
15	QPSK	36	0	20.71	20.61	20.81	22.5	0						
15	QPSK	75	0	20.73	20.63	20.82								
15	16QAM	1	0	20.66	20.75	20.72								
15	16QAM	1	37	20.64	20.65	20.68								
15	16QAM	1	74	20.63	20.65	20.61								
15	16QAM	36	0	20.67	20.60	20.71	22.5	0						
15	16QAM	36	20	20.71	20.78	20.76								
15	16QAM	36	39	20.74	20.75	20.84								
15	16QAM	75	0	20.77	20.60	20.69								
15	16QAM	1	0	20.68	20.62	20.77								
15	64QAM	1	37	20.59	20.79	20.85	22.5	0						
15	64QAM	1	74	20.74	20.66	20.61								
15	64QAM	36	0	19.83	19.85	19.89								
15	64QAM	36	20	19.81	19.85	19.84								
15	64QAM	36	59	19.79	19.86	19.89								
15	64QAM	75	0	19.82	19.76	19.84	21.5	1						
15	256QAM	1	0	17.64	17.77	17.77								
15	256QAM	1	0	17.88	17.76	17.72								
15	256QAM	1	4	17.72	17.73	17.74								
15	256QAM	36	0	17.62	17.72	17.69								
15	256QAM	36	20	17.67	17.62	17.76	19.5	3						
15	256QAM	36	59	17.65	17.77	17.76								
15	256QAM	75	0	17.69	17.83	17.73								
Channel														
				130522	132522	132622								
Frequency (MHz)				1715	1746	1775								
10	QPSK	1	0	20.72	20.70	20.83	22.5	0						
10	QPSK	1	25	20.74	20.69	20.88								
10	QPSK	1	48	20.62	20.69	20.74								
10	QPSK	25	0	20.83	20.74	20.74								
10	QPSK	25	12	20.68	20.76	20.66								
10	QPSK	25	0	20.79	20.72	20.75	22.5	0						
10	QPSK	50	0	20.67	20.71	20.75								
10	16QAM	1	0	20.68	20.67	20.72								
10	16QAM	1	49	20.81	20.75	20.87								
10	16QAM	25	0	20.56	20.50	20.84								
10	16QAM	25	12	20.72	20.91	20.72	22.5	0						
10	16QAM	25	26	20.68	20.69	20.71								
10	16QAM	50	0	20.60	20.67	20.81								
10	16QAM	1	0	20.64	20.73	20.58								
10	16QAM	1	26	20.59	20.71	20.71								
10	16QAM	1	49	20.81	20.74	20.80	22.5	0						
10	16QAM	25	0	19.91	19.96	19.90								
10	16QAM	25	12	20.68	19.94	20.19								
10	16QAM	25	26	20.01	19.97	20.01								
10	16QAM	50	0	19.99	19.94	19.91								
10	256QAM	1	0	17.61	17.71	17.62	19.5	3						
10	256QAM	1	26	17.76	17.65	17.72								
10	256QAM	25	0	17.78	17.69	17.62								
10	256QAM	25	12	17.55	17.73	17.70								
10	256QAM	25	26	17.69	17.61	17.66								
10	256QAM	25	0	17.71	17.80	17.69	19.5	3						
10	256QAM	50	0	17.63	17.79	17.66								
Channel														
				130997	132522	132622								
Frequency (MHz)				1725	1746	1775								
5	QPSK	1	0	20.64	20.74	20.74	22.5	0						
5	QPSK	1	12	20.67	20.61	20.82								
5	QPSK	1	24	20.77	20.76	20.85								
5	QPSK	12	0	20.84	20.81	20.72								
5	QPSK	12	7	20.81	20.61	20.69								
5	QPSK	12	11	20.64	20.77	20.74	22.5	0						
5	QPSK	25	0	20.69	20.81	20.66								
5	16QAM	1	0	20.83	20.75	20.59								
5	16QAM	1	12	20.70	20.71	20.69								
5	16QAM	1	24	20.83	20.74	20.88								
5	16QAM	12	0	20.68	20.63	20.71	22.5	0						
5	16QAM	12	7	20.68	20.78	20.65								
5	16QAM	12	13	20.61	20.68	20.71								
5	16QAM	25	0	20.69	20.75	20.59								
5	16QAM	1	0	20.70	20.66	20.61								
5	16QAM	1	12	20.68	20.62	20.76	22.5	0						
5	16QAM	1	24	20.83	20.69	20.79								
5	16QAM	12	0	19.91	19.83	19.91								
5	16QAM	12	7	19.94	19.99	20.11								
5	16QAM	12	13	19.85	19.89	19.94	21.5	1						
5	16QAM	25	0	20.02	19.97	20.06								
5	16QAM	1	0	17.65	17.77	17.69								
5	16QAM	1	12	17.74	17.74	17.73								
5	16QAM	1	24	17.76	17.69	17.68								
5	16QAM	12	0	17.55	17.73	17.70	19.5	3						
5	16QAM	12	7	17.66	17.67	17.78								
5	16QAM	12	13	17.60	17.85	17.68								
5	16QAM	25	0	17.67	17.83	17.73								
5	16QAM	1	0	17.62	17.79	17.67								
5	16QAM	1	12	17.74	17.73	17.71	19.5	3						
5	16QAM	1	24	17.77	17.69	17.68								
5	16QAM	12	0	17.55	17.73	17.70								
5	16QAM	12	7	17.67	17.68	17.78								
5	16QAM	12	13	17.60	17.85	17.68								
5	16QAM	25	0	17.67	17.83	17.73	19.5	3						
5	16QAM	1	0	17.62	17.79	17.67								
Channel														
				131697	132522	132622								
Frequency (MHz)				1717	1746	1775								
1.4	QPSK	1	0	20.73	20.67	20.77	22.5	0						
1.4	QPSK	1	37	20.86	20.81	20.83								
1.4	QPSK	1	14	20.79	20.74	20.74								
1.4	QPSK	36	0	20.81	20.80	20.78								
1.4	QPSK	36	7	20.79	20.73	20.76								
1.4	QPSK	36	0	20.71	20.61	20.81	22.5	0						
1.4	QPSK	75	0	20.73	20.63	20.82								
1.4	16QAM	1	0	20.69	20.80	20.85								
1.4	16QAM	1	8	20.69	20.67	20.85								
1.4	16QAM	1	16	20.72	20.73	20.82								
1.4	16QAM	8	0	20.51	20.84	20.87	22.5	0						
1.4	16QAM	8	4	20.84	20.75	20.69								
1.4	16QAM	8	16	20.80	20.85	20.83								
1.4	16QAM	16	0	20.71	20.87	20.63								
1.4	16QAM	1	0	20.61	20.67	20.63								
1.4	16QAM	1	16	20.71	20.77	20.75	22.5	0						
1.4	16QAM	1	32	20.84	20.71	20.82								
1.4	16QAM	8	0	20.67	20.69	20.78								
1.4	16QAM	8	16	20.77	20.89	20.77								
1.4	16QAM	8	32	20.73	20.97	20.63								
1.4	16QAM	16	0	20.79	20.77	20.63	21.5	1						
1.4	16QAM	16	8	20.80	20.82	20.81								
1.4	16QAM	16	16	20.80	20.82	20.81								
1.4	16QAM	32	0	20.77	20.87	20.73								
1.4	16QAM	1	0	17.63	17.83	17.68								
1.4	256QAM	1	14	17.75	17.71	17.71	19.5	3						
1.4	256QAM	1	32	17.77	17.73	17.73								
1.4	256QAM	8	4	17.61	17.73	17.78								
1.4	256QAM	7	7	17.67	17.70	17.81								
1.4	256QAM	16	0	17.64	17.73	17.81								
1.4	256QAM	1	0	17.67	17.74	17.77	19.5	3						
1.4	256QAM	1	32	17.77	17.78	17.78								
1.4	256QAM	8	4	17.61	17.78	17.78								
1.4	256QAM	7	7	17.67	17.78	17.78								
1.4	256QAM	16	0	17.64	17.73	17.78								



Band 38_Ant 13																			
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turnup test (dBm)	MTR (dB)											
Channel																			
Frequency (MHz)																			
20	QPSK	1	5	22.04	22.03	22.18			23	0									
20	QPSK	1	49	22.13	22.24	22.22													
20	QPSK	1	96	22.10	22.23	22.18													
20	QPSK	50	5	22.05	22.17	22.22													
20	QPSK	50	24	22.08	22.07	21.98													
20	QPSK	50	50	22.03	22.04	21.83			23	0									
20	QPSK	100	5	22.02	22.14	21.98													
20	16QAM	1	5	21.85	21.98	22.02					23	0							
20	16QAM	1	49	22.20	21.80	22.20													
20	16QAM	1	99	21.85	22.20	21.97													
20	16QAM	50	5	21.83	21.98	21.94													
20	16QAM	50	24	22.02	22.00	21.88													
20	16QAM	50	50	21.96	22.03	22.04			23	0									
20	16QAM	100	5	22.01	22.04	21.95													
20	16QAM	1	5	21.71	22.00	22.00													
20	64QAM	1	49	22.14	22.00	21.88					23	0							
20	64QAM	1	99	21.96	21.88	21.87													
20	64QAM	50	5	20.89	20.98	20.97													
20	64QAM	50	24	21.12	21.05	21.01					22	1							
20	64QAM	50	50	21.07	21.10	21.13													
20	256QAM	1	5	21.05	21.03	20.94													
20	256QAM	1	5	18.69	18.74	18.68													
20	256QAM	1	49	18.48	18.63	18.60			20	3									
20	256QAM	1	99	18.81	18.75	18.80													
20	256QAM	50	5	18.67	18.79	18.73													
20	256QAM	50	24	18.73	18.72	18.73													
20	256QAM	50	50	18.76	18.76	18.74													
20	256QAM	100	5	18.66	18.73	18.74													
Channel																			
Frequency (MHz)																			
18	QPSK	1	5	21.97	21.95	22.13			23	0									
18	QPSK	1	37	21.87	22.23	22.02													
18	QPSK	1	74	21.93	22.17	22.13													
18	QPSK	36	5	22.03	22.10	21.88													
18	QPSK	36	20	22.01	22.03	22.04					23	0							
18	QPSK	36	36	21.98	21.98	21.86													
18	QPSK	75	5	21.94	21.99	22.00													
18	16QAM	1	5	21.94	22.13	21.94					23	0							
18	16QAM	1	37	22.19	21.93	22.22													
18	16QAM	1	74	21.79	22.20	22.03													
18	16QAM	36	5	21.93	21.88	21.92					23	0							
18	16QAM	36	20	21.93	22.05	21.88													
18	16QAM	36	36	21.87	21.99	21.93													
18	16QAM	75	5	21.98	22.00	21.80													
18	64QAM	1	5	21.84	21.90	21.87			23	0									
18	64QAM	1	37	22.14	21.88	21.79													
18	64QAM	1	74	21.96	22.04	21.74													
18	64QAM	36	5	20.80	20.90	20.84					22	1							
18	64QAM	36	20	21.11	20.92	20.91													
18	64QAM	75	5	21.05	21.06	20.98													
18	256QAM	1	5	18.68	18.62	18.61					20	3							
18	256QAM	1	37	18.46	18.52	18.57													
18	256QAM	1	74	18.52	18.75	18.71													
18	256QAM	36	5	18.70	18.70	18.71													
18	256QAM	36	20	18.65	18.65	18.67													
18	256QAM	36	36	18.63	18.62	18.61			20	3									
18	256QAM	75	5	18.66	18.68	18.58													
Channel																			
Frequency (MHz)																			
10	QPSK	1	5	21.96	21.95	22.12			23	0									
10	QPSK	1	25	21.82	22.19	22.15													
10	QPSK	1	49	22.03	22.13	22.12													
10	QPSK	25	5	21.90	22.04	21.87					23	0							
10	QPSK	25	12	21.99	21.88	21.87													
10	QPSK	25	24	22.01	21.90	21.83													
10	QPSK	50	5	22.07	22.05	21.81													
10	16QAM	1	5	21.97	22.13	21.87			23	0									
10	16QAM	1	25	22.13	21.77	22.11													
10	16QAM	1	49	21.75	22.10	21.87													
10	16QAM	25	5	21.84	21.94	21.82					23	0							
10	16QAM	25	12	21.94	22.03	21.78													
10	16QAM	25	25	21.91	21.93	21.98													
10	16QAM	50	5	21.89	22.03	21.84													
10	64QAM	1	5	21.98	21.90	22.15			23	0									
10	64QAM	1	25	22.10	22.00	21.80													
10	64QAM	1	49	21.81	21.84	21.82													
10	64QAM	25	5	20.78	20.81	20.89					22	1							
10	64QAM	25	12	21.60	21.54	21.61													
10	64QAM	50	5	20.97	20.92	20.86													
10	256QAM	1	5	18.61	18.67	18.60					20	3							
10	256QAM	1	25	18.36	18.53	18.51													
10	256QAM	1	49	18.50	18.74	18.71													
10	256QAM	25	5	18.53	18.72	18.71													
10	256QAM	25	12	18.71	18.62	18.72													
10	256QAM	25	25	18.53	18.67	18.60			20	3									
10	256QAM	50	5	18.68	18.68	18.72													
Channel																			
Frequency (MHz)																			
5	QPSK	1	5	22.01	22.05	22.02			23	0									
5	QPSK	1	12	21.89	22.15	22.18													
5	QPSK	1	24	22.00	22.00	22			23	0									
5	QPSK	1	48	22.09	22.09	22													
5	QPSK	1	96	22.01	22.01	22													
5	QPSK	12	7	22.07	22.08	22.08													
5	QPSK	12	13	21.91	21.92	22.00													
5	QPSK	12	19	21.91	21.92	22.00			23	0									
5	QPSK	12	25	21.91	21.92	22.00													
5	16QAM	1	5	21.78	22.09	22.09					23	0							
5	16QAM	1	12	22.06	21.86	22.09													
5	16QAM	1	24	22.22	21.82	22.01													
5	16QAM	12	7	21.88	21.88	21.80													
5	16QAM	12	13	21.90	22.02	21.73													
5	16QAM	12	19	21.92	22.04	21.73			23	0									
5	16QAM	25	5	21.95	21.95	21.82													
5	16QAM	25	12	21.83	21.85	22.17													
5	64QAM	1	5	21.63	21.85	22.17			23	0									
5	64QAM	1	12	21.49	21.99	22.01													
5	64QAM	1	24	21.90	21.58	21.81													
5	64QAM	12	5	20.89	20.84	20.86													
5	64QAM	12	12	20.95	20.97	21.03			22	1									
5	64QAM	12	19	20.93	20.99	21.03													
5	64QAM	25	5	21.03	20.97	21.08													
5	256QAM	1	5	18.51	18.71	18.70			20	3									
5	256QAM	1	12	18.39	18.59	18.54													
5	256QAM	1	24	18.54	18.74	18.70													
5	256QAM	12	7	18.57	18.77	18.76													
5	256QAM	12	7	18.59	18.59	18.60													
5	256QAM	12	13	18.54	18.66	18.70			20				3						
5	256QAM	12	19	18.56	18.66	18.67													
5	256QAM	25	5	18.68	18.68	18.72													
5	256QAM	25	12	18.64	18.66	18.70													

Band 41_Ant 31															
BW (MHz)	Modulation	RB Sub	RB Offset	Power Low Ch./Freq.	Power Low Mode Ch./Freq.	Power Mode Ch./Freq.	Power High Mode Ch./Freq.	Power High Ch./Freq.	Turn-on Int. (dBm)	MPT (dB)					
Channel				39750	40185	40620	41065	41460							
Frequency (MHz)				2568.5	2568.5	2568.5	2568.5	2568.5							
20	QPSK	1	0	23.02	23.07	23.46	23.23	23.22	25	0					
20	QPSK	1	48	23.46	23.37	23.51	23.47	23.38							
20	QPSK	1	96	23.20	23.26	23.32	23.32	23.17							
20	QPSK	50	0	22.53	22.43	22.60	22.41	22.37							
20	QPSK	50	24	22.52	22.53	22.56	22.40	22.24							
20	16QAM	1	0	22.21	22.18	22.36	22.36	22.20	24	1					
20	16QAM	1	48	22.22	22.35	22.41	22.04	22.32							
20	16QAM	1	96	22.46	22.31	22.55	22.43	22.41							
20	16QAM	50	0	21.30	21.42	21.57	21.47	21.23							
20	16QAM	50	24	21.29	21.37	21.61	21.47	21.37							
20	16QAM	50	50	21.26	21.29	21.63	21.41	21.25	23	2					
20	16QAM	100	0	21.34	21.39	21.49	21.51	21.33							
20	16QAM	100	0	21.23	21.20	21.48	21.37	21.26							
20	64QAM	1	48	21.40	21.27	21.65	21.18	21.10							
20	64QAM	1	96	21.36	21.29	21.38	21.30	21.24							
20	64QAM	50	0	20.28	20.36	20.44	20.39	20.28	23	3					
20	64QAM	50	24	20.43	20.36	20.59	20.49	20.41							
20	64QAM	50	50	20.39	20.19	20.58	20.49	20.30							
20	256QAM	1	0	20.36	20.39	20.57	20.47	20.35							
20	256QAM	1	0	18.39	18.53	18.53	18.53	18.44							
20	256QAM	1	48	18.45	18.48	18.60	18.46	18.54	20	5					
20	256QAM	1	96	18.42	18.39	18.54	18.43	18.37							
20	256QAM	50	0	18.47	18.42	18.57	18.44	18.57							
20	256QAM	50	24	18.51	18.48	18.58	18.49	18.48							
20	256QAM	50	50	18.48	18.43	18.61	18.51	18.48							
20	256QAM	100	0	18.54	18.42	18.52	18.41	18.51							
Channel				39725	40190	40620	41060	41455	Turn-on Int. (dBm)	MPT (dB)					
Frequency (MHz)				2563.5	2563.5	2563.5	2563.5	2563.5							
15	QPSK	1	0	23.07	23.05	23.27	23.14	23.08	25	0					
15	QPSK	1	37	23.18	23.12	23.28	23.35	23.08							
15	QPSK	1	74	23.13	23.22	23.18	23.32	23.18							
15	QPSK	36	0	22.19	22.18	22.34	22.22	22.15							
15	QPSK	36	20	22.13	22.15	22.38	22.24	22.18							
15	QPSK	36	36	22.12	22.07	22.23	22.23	22.13	24	1					
15	QPSK	75	0	22.09	22.22	22.34	22.29	22.12							
15	16QAM	1	0	22.08	22.08	22.73	22.07	22.12							
15	16QAM	1	37	22.22	22.19	22.52	22.02	22.28							
15	16QAM	1	74	22.05	22.04	22.15	22.18	22.02							
15	16QAM	36	0	21.05	21.33	21.30	21.33	21.09	23	2					
15	16QAM	36	20	21.08	21.23	21.35	21.35	21.08							
15	16QAM	36	36	21.05	21.04	21.28	21.15	21.04							
15	16QAM	75	0	21.05	21.17	21.32	21.32	21.13							
15	16QAM	1	0	21.08	21.13	21.03	21.09	21.28							
15	64QAM	1	37	21.12	21.23	21.18	21.29	21.14	23	2					
15	64QAM	1	74	21.27	21.17	21.14	21.26	21.07							
15	64QAM	36	0	20.23	20.20	20.43	20.36	20.11							
15	64QAM	36	20	20.24	20.13	20.28	20.27	20.11							
15	64QAM	36	36	20.10	20.18	20.32	20.15	20.00							
15	64QAM	75	0	20.10	20.31	20.25	20.28	20.24	22	3					
15	64QAM	1	0	18.10	18.39	18.27	18.20	18.31							
15	256QAM	1	0	18.25	18.24	18.47	18.17	18.24							
15	256QAM	1	74	18.14	18.18	18.37	18.17	18.23							
15	256QAM	36	0	18.28	18.12	18.45	18.21	18.42							
15	256QAM	36	20	18.23	18.22	18.33	18.25	18.40	20	5					
15	256QAM	36	36	18.35	18.21	18.48	18.39	18.24							
15	256QAM	75	0	18.38	18.27	18.37	18.18	18.22							
Channel				39775	40160	40620	41060	41450	Turn-on Int. (dBm)				MPT (dB)		
Frequency (MHz)				2568 <th>2567<th>2568<th>2567<th>2568<th></th><th></th><th></th><th></th></th></th></th></th>	2567 <th>2568<th>2567<th>2568<th></th><th></th><th></th><th></th></th></th></th>	2568 <th>2567<th>2568<th></th><th></th><th></th><th></th></th></th>	2567 <th>2568<th></th><th></th><th></th><th></th></th>	2568 <th></th> <th></th> <th></th> <th></th>							
10	QPSK	1	0	23.07	23.19	23.49	23.18	23.06	25	0					
10	QPSK	1	25	23.21	23.18	23.43	23.31	23.39							
10	QPSK	1	48	23.05	23.18	23.43	23.19	23.23							
10	QPSK	26	0	22.57	22.38	22.57	22.41	22.33							
10	QPSK	25	12	22.55	22.25	22.72	22.55	22.32							
10	QPSK	26	12	22.53	22.27	22.35	22.34	22.18	24	1					
10	QPSK	50	0	22.23	22.29	22.67	22.45	22.35							
10	16QAM	1	0	22.25	22.18	22.37	22.51	22.11							
10	16QAM	1	25	22.41	22.39	22.58	22.50	22.08							
10	16QAM	1	48	22.48	22.61	22.48	22.28	22.20							
10	16QAM	25	0	21.33	21.43	21.57	21.38	21.32	23	2					
10	16QAM	25	12	21.31	21.21	21.61	21.45	21.42							
10	16QAM	25	25	21.34	21.24	21.43	21.31	21.31							
10	16QAM	50	0	21.22	21.35	21.59	21.40	21.25							
10	64QAM	1	0	21.11	21.07	21.07	21.08	21.10							
10	64QAM	1	25	21.37	21.18	21.23	21.12	21.31	23	2					
10	64QAM	1	48	21.24	21.25	21.23	21.41	21.76							
10	64QAM	25	0	20.25	20.38	20.51	20.52	20.18							
10	64QAM	25	12	20.33	20.31	20.53	20.54	20.18							
10	64QAM	50	0	20.31	20.29	20.42	20.45	20.38							
10	256QAM	1	0	20.28	20.29	20.57	20.39	20.35	22	3					
10	256QAM	1	0	18.25	18.34	18.35	18.20	18.31							
10	256QAM	1	25	18.29	18.43	18.46	18.24	18.26							
10	256QAM	1	48	18.27	18.09	18.29	18.20	18.22							
10	256QAM	25	0	18.25	18.18	18.28	18.19	18.41							
10	256QAM	25	12	18.28	18.32	18.39	18.24	18.36	20	5					
10	256QAM	25	25	18.34	18.19	18.41	18.24	18.29							
10	256QAM	50	0	18.39	18.13	18.34	18.22	18.31							
Channel				39675	40148	40620	41063	41466	Turn-on Int. (dBm)				MPT (dB)		
Frequency (MHz)				2568.5	2568.5	2568.5	2568.5	2568.5							
5	QPSK	1	0	23.07	23.04	23.44	23.18	23.05	25	0					
5	QPSK	1	12	23.25	23.18	23.43	23.39	23.25							
5	QPSK	1	24	23.18	23.01	23.31	23.05	23.15							
5	QPSK	12	0	22.25	22.32	22.51	22.37	22.32							
5	QPSK	12	7	22.35	22.34	22.49	22.42	22.39							
5	QPSK	12	13	22.23	22.26	22.44	22.39	22.34	24	1					
5	QPSK	26	0	22.22	22.28	22.60	22.41	22.36							
5	16QAM	1	0	22.09	22.07	22.53	22.23	22.25							
5	16QAM	1	12	22.24	22.35	22.35	22.07	22.36							
5	16QAM	1	24	22.03	22.22	22.47	22.31	22.32							
5	16QAM	12	0	21.34	21.28	21.53	21.47	21.26	23	2					
5	16QAM	12	7	21.46	21.36	21.49	21.32	21.27							
5	16QAM	12	13	21.37	21.24	21.43	21.31	21.32							
5	16QAM	25	0	21.38	21.36	21.51	21.38	21.44							
5	64QAM	1	0	21.06	21.18	21.34	21.03	21.07							
5	64QAM	1	12	21.12	21.26	21.26	21.12	21.19	22	3					
5	64QAM	1	24	21.01	21.28	21.03	21.02	21.03							
5	64QAM	12	0	20.32	20.34	20.87	20.42	20.31							
5	64QAM	12	7	20.32	20.25	20.87	20.42	20.48							
5	64QAM	12	13	20.31	20.22	20.57	20.43	20.22							
5	64QAM	25	0	20.30	20.16	20.39	20.42	20.31	20	5					
5	64QAM	25	0	18.29	18.38	18.41	18.25	18.36							
5	256QAM	1	0	18.18	18.30	18.39	18.16	18.34							
5	256QAM	1	24	18.29	18.18	18.42	18.20	18.16							
5	256QAM	1	48	18.34	18.28	18.38	18.16	18.40							
5	256QAM	12	7	18.23	18.21	18.38	18.21	18.31	20	5					
5	256QAM	12	13	18.33	18.33	18.32	18.35	18.22							
5	256QAM	25	0	18.24	18.24	18.32	18.21	18.28							



Reduced Power Mode for DSIS

GSM850_Ant 13		Burst Average Power (dBm)			Tx Channel		Frame Average Power (dBm)			Tx Channel					
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)			Rx Channel					
Frequency (MHz)		856.2	856.4	856.6	Frequency (MHz)		856.2	856.4	856.6	Frequency (MHz)					
GSM 1 Tx ant		32.74	32.84	32.88	34.00	23.74	23.84	23.88	25.00	23.74	23.84	23.88	25.00		
GPRS 1 Tx ant		32.87	33.08	33.00	34.00	23.87	23.97	23.97	33.50	23.87	23.97	23.97	33.50		
GPRS 2 Tx ant		30.38	30.58	30.52	32.00	24.40	24.48	24.56	24.82	25.00	24.40	24.48	24.56	24.82	25.00
GPRS 3 Tx ant		28.60	28.81	28.75	30.00	24.40	24.48	24.56	24.82	25.00	24.40	24.48	24.56	24.82	25.00
GPRS 4 Tx ant		27.18	27.29	27.31	28.50	24.40	24.48	24.56	24.82	25.00	24.40	24.48	24.56	24.82	25.00
EDGE(GSM) 1 Tx ant		32.70	32.82	32.87	34.00	24.16	24.20	24.32	24.87	25.00	24.16	24.20	24.32	24.87	25.00
EDGE(GSM) 2 Tx ant		30.29	30.47	30.41	32.00	24.16	24.20	24.32	24.87	25.00	24.16	24.20	24.32	24.87	25.00
EDGE(GSM) 3 Tx ant		28.43	28.60	28.58	30.00	24.16	24.20	24.32	24.87	25.00	24.16	24.20	24.32	24.87	25.00
EDGE(GSM) 4 Tx ant		27.04	27.20	27.21	28.50	24.16	24.20	24.32	24.87	25.00	24.16	24.20	24.32	24.87	25.00
EDGE(UMTS) 1 Tx ant		26.47	26.71	26.56	27.00	17.15	17.17	17.31	17.28	18.00	17.15	17.17	17.31	17.28	18.00
EDGE(UMTS) 2 Tx ant		24.35	24.54	24.47	26.00	18.30	18.34	18.47	18.47	20.00	18.30	18.34	18.47	18.47	20.00
EDGE(UMTS) 3 Tx ant		22.48	22.69	22.62	24.00	18.30	18.34	18.47	18.47	20.00	18.30	18.34	18.47	18.47	20.00
EDGE(UMTS) 4 Tx ant		21.04	21.23	21.16	22.00	18.06	18.23	18.16	18.05	19.00	18.06	18.23	18.16	18.05	19.00

GSM1900_Ant 13		Burst Average Power (dBm)				Turn-on	Frame Average Power (dBm)				Turn-off
Tx Channel		512	561	810	800	512	561	810	800	Turn-off	
Rx Channel		1850.2	1850.2	1850.6	1850.6	1850.2	1850.2	1850.6	1850.6	1850.2	
Frequency (MHz)		1850.2	1850.2	1850.6	1850.6	1850.2	1850.2	1850.6	1850.6	1850.2	
GSM 1 Tx ant		30.02	30.38	30.24	31.00	21.00	21.38	21.24	22.04	22.00	
GPRS 1 Tx ant		30.03	30.38	30.25	31.00	21.00	21.38	21.24	22.04	22.00	
GPRS 2 Tx ant		27.83	28.19	28.07	29.00	21.00	21.38	21.24	22.04	22.00	
GPRS 3 Tx ant		26.90	26.94	26.10	27.00	21.00	21.38	21.24	22.04	22.00	
GPRS 4 Tx ant		24.42	24.71	24.62	25.00	21.00	21.38	21.24	22.04	22.00	
EDGE(GSM) 1 Tx ant		28.82	30.29	30.11	31.00	20.00	21.29	21.11	22.14	22.00	
EDGE(GSM) 2 Tx ant		27.75	28.11	27.87	29.00	21.00	21.38	21.24	22.04	22.00	
EDGE(GSM) 3 Tx ant		26.85	26.23	26.07	27.00	21.00	21.38	21.24	22.04	22.00	
EDGE(GSM) 4 Tx ant		24.38	24.73	24.55	25.00	20.00	21.38	21.23	22.15	22.00	
EDGE(UMTS) 1 Tx ant		25.53	25.90	25.75	26.00	21.00	21.38	21.24	22.04	22.00	
EDGE(UMTS) 2 Tx ant		24.03	24.38	24.27	25.00	18.00	18.36	18.27	19.00	19.00	
EDGE(UMTS) 3 Tx ant		21.97	22.21	22.17	23.00	17.00	17.16	17.01	17.81	17.81	
EDGE(UMTS) 4 Tx ant		20.46	20.81	20.67	21.00	16.00	16.48	16.31	16.81	16.81	

Band					Band				
TX Channel		5902	5900	5908	TX Channel		5902	5900	5908
RX Channel		5902	5900	5908	RX Channel		5902	5900	5908
Frequency (MHz)		5912	5908	5916.6	Frequency (MHz)		5912	5908	5916.6
SCPP Rel 0	AMR 12.2kps	18.38	19.11	19.04	20.50	19.54	19.68	19.63	21.50
SCPP Rel 0	RMC 12.2kps	19.03	19.17	19.08	20.50	19.51	19.75	19.65	21.80
SCPP Rel 0	HEPFA Subant-1	18.03	18.27	18.11	18.50	18.53	18.36	18.30	20.50
SCPP Rel 0	HEPFA Subant-2	17.85	18.10	18.04	18.50	18.89	18.67	18.00	20.50
SCPP Rel 0	HEPFA Subant-3	17.19	17.55	17.56	19.00	18.42	18.47	18.48	20.50
SCPP Rel 0	HEPFA Subant-4	17.84	17.91	17.63	18.50	18.34	18.51	18.47	20.50
SCPP Rel 0	DC-HSPFA Subant-1	17.88	17.88	18.00	18.50	18.73	18.04	18.82	20.50
SCPP Rel 0	DC-HSPFA Subant-2	17.85	18.07	18.09	18.50	18.73	18.06	18.55	20.50
SCPP Rel 0	DC-HSPFA Subant-3	17.15	17.58	17.44	18.50	18.27	18.49	18.39	20.50
SCPP Rel 0	DC-HSPFA Subant-4	17.49	17.43	17.81	18.00	18.32	18.50	18.44	20.50
SCPP Rel 0	HELPA Subant-1	18.50	18.14	18.10	18.50	18.84	18.10	18.57	20.50
SCPP Rel 0	HELPA Subant-2	18.01	18.02	18.11	17.50	18.05	18.05	18.05	18.60
SCPP Rel 0	HELPA Subant-3	17.21	17.14	17.13	18.50	17.85	18.08	18.04	18.50
SCPP Rel 0	HELPA Subant-4	18.03	18.08	18.17	17.50	18.85	17.08	17.02	18.50
SCPP Rel 0	HELPA Subant-5	18.11	18.08	18.18	18.50	18.91	18.18	18.05	20.50
SCPP Rel 7	HEPFA (1500W) Subant-1	18.50	18.63	18.58	18.00	17.39	17.50	17.49	18.00

Band					Band				
TX Channel		4152	4152	4203	Tx Channel		4152	4152	4203
Rx Channel		4057	4407	4408	Rx Channel		4057	4407	4408
Frequency (MHz)		806.4	806.4	806.6	Frequency (MHz)		806.4	806.4	806.6
SCPP Rel 0	AMR 12.2kps	24.04	24.03	24.04	23.00	23.71	23.74	23.87	25.00
SCPP Rel 0	AMR 12.2kps	24.05	24.08	24.01	23.00	23.87	23.90	23.75	25.00
SCPP Rel 0	HEPFA Subant-1	23.07	23.07	23.01	24.00	23.02	22.87	23.94	24.00
SCPP Rel 0	HEPFA Subant-2	23.07	23.04	23.04	24.00	23.02	23.00	23.90	24.00
SCPP Rel 0	HEPFA Subant-3	22.58	22.58	22.53	23.50	22.51	22.49	22.44	23.50
SCPP Rel 0	HEPFA Subant-4	22.83	22.85	22.32	23.50	22.52	22.49	22.44	23.50
SCPP Rel 0	DC-HSPFA Subant-1	23.03	23.05	23.00	24.00	22.52	22.52	22.48	24.00
SCPP Rel 0	DC-HSPFA Subant-2	23.04	23.02	23.01	24.00	22.48	22.57	22.86	24.00
SCPP Rel 0	DC-HSPFA Subant-3	22.58	22.52	22.43	23.50	22.41	22.45	22.39	23.50
SCPP Rel 0	DC-HSPFA Subant-4	20.98	22.45	22.24	23.50	22.44	22.45	22.37	23.50
SCPP Rel 0	HELPA Subant-1	22.97	23.04	22.97	24.00	22.36	22.97	22.89	24.00
SCPP Rel 0	HELPA Subant-2	21.03	21.10	20.83	22.00	20.97	20.94	20.97	22.00
SCPP Rel 0	HELPA Subant-3	21.00	22.03	21.85	23.50	21.91	21.98	21.91	23.50
SCPP Rel 0	HELPA Subant-4	20.98	20.39	20.38	22.00	20.88	20.97	20.88	22.00
SCPP Rel 0	HELPA Subant-5	21.00	21.00	21.00	24.00	20.90	21.00	21.00	24.00
SCPP Rel 7	HEPFA (1500W) Subant-1	21.02	21.05	20.91	22.00	20.91	20.90	20.98	22.00

GSM850_Ant 31					GSM1900_Ant 31					
Tx Channel		Burst Average Power (dBm)			Tx Channel		Burst Average Power (dBm)			
Rx Channel		Frame Average Power (dBm)			Rx Channel		Frame Average Power (dBm)			
Frequency (MHz)		856.2	856.4	856.6	Frequency (MHz)		1850.2	1850.4	1850.6	
GSM 1 Tx ant		32.19	32.24	32.13	33.80	GSM 1 Tx ant		29.49	29.83	29.71
GPRS 1 Tx ant		32.13	32.17	32.17	33.50	GPRS 1 Tx ant		29.54	29.87	29.75
GPRS 2 Tx ant		29.84	29.88	29.83	31.80	GPRS 2 Tx ant		27.12	27.46	27.14
GPRS 3 Tx ant		27.97	28.08	28.12	29.80	GPRS 3 Tx ant		25.26	25.57	25.36
GPRS 4 Tx ant		26.51	26.64	26.69	28.20	GPRS 4 Tx ant		23.83	24.07	23.92
EDGE(GSM) 1 Tx ant		32.02	32.08	32.12	33.50	EDGE(GSM) 1 Tx ant		29.49	29.83	29.71
EDGE(GSM) 2 Tx ant		29.84	29.88	29.83	31.80	EDGE(GSM) 2 Tx ant		27.12	27.46	27.14
EDGE(GSM) 3 Tx ant		27.97	27.93	28.03	29.80	EDGE(GSM) 3 Tx ant		25.26	25.37	25.79
EDGE(GSM) 4 Tx ant		26.51	26.64	26.69	28.20	EDGE(GSM) 4 Tx ant		23.83	23.97	24.24
EDGE(GSM) 1 Tx ant		29.84	29.88	29.83	31.80	EDGE(GSM) 1 Tx ant		27.12	27.46	27.14
EDGE(GSM) 2 Tx ant		27.97	28.03	28.08	29.80	EDGE(GSM) 2 Tx ant		25.26	25.37	25.79
EDGE(GSM) 3 Tx ant		26.51	26.63	26.68	27.80	EDGE(GSM) 3 Tx ant		23.83	23.87	23.88
EDGE(GSM) 4 Tx ant		24.51	24.53	24.61	26.00	EDGE(GSM) 4 Tx ant		21.56	21.63	21.66
EDGE(GSM) 1 Tx ant		23.83	23.87	23.88	25.80	EDGE(GSM) 1 Tx ant		21.56	21.63	21.66
EDGE(GSM) 2 Tx ant		20.57	20.49	20.61	22.00	EDGE(GSM) 2 Tx ant		17.57	17.47	17.61



Band 2_Ant 13												
RF [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq.	Power Mode Ch / Freq.	Power High Ch / Freq.	Turn-on Time (min)	MFR (dB)				
Channel									18700	19000	19100	
Frequency (MHz)									18700	18850	19000	19100
20	QPSK	1	0	19.48	19.54	19.48						
20	QPSK	1	48	19.68	19.76	19.68	21	0				
20	QPSK	1	96	19.88	19.94	19.88						
20	QPSK	50	0	19.60	19.69	19.60						
20	QPSK	50	24	19.45	19.59	19.49	21	0				
20	QPSK	50	48	19.51	19.59	19.44						
20	QPSK	100	0	19.46	19.61	19.50						
20	HQAM	1	0	19.42	19.51	19.44	21	0				
20	HQAM	1	48	19.51	19.51	19.52						
20	HQAM	1	96	19.48	19.51	19.36						
20	HQAM	50	0	19.55	19.56	19.56						
20	HQAM	50	24	19.42	19.56	19.48	21	0				
20	HQAM	50	48	19.52	19.65	19.54						
20	HQAM	100	0	19.41	19.63	19.59						
20	HQAM	100	0	19.59	19.59	19.47						
20	HQAM	1	49	19.59	19.58	19.63	21	0				
20	HQAM	1	99	19.52	19.56	19.51						
20	HQAM	50	0	19.53	19.59	19.61						
20	HQAM	50	24	19.59	19.52	19.49	21	0				
20	HQAM	50	48	19.49	19.56	19.53						
20	HQAM	100	0	19.42	19.63	19.48						
20	25GSM	1	49	17.90	17.92	17.94						
20	25GSM	1	99	18.05	18.15	18.15	19	2				
20	25GSM	1	149	18.00	18.00	18.02						
20	25GSM	50	0	17.87	17.93	17.90						
20	25GSM	50	24	17.77	17.87	17.88	19	2				
20	25GSM	50	48	17.88	17.85	17.88						
20	25GSM	100	0	17.85	17.94	17.97						
Channel									19875	19900	19925	
Frequency (MHz)									19875	19900	19925	19950
15	QPSK	1	0	19.25	19.47	19.28						
15	QPSK	1	37	19.42	19.60	19.62	21	0				
15	QPSK	1	74	19.41	19.41	19.36						
15	QPSK	36	0	19.39	19.50	19.42						
15	QPSK	36	20	19.38	19.45	19.26	21	0				
15	QPSK	36	40	19.27	19.47	19.38						
15	QPSK	75	0	19.28	19.44	19.43						
15	HQAM	1	0	19.26	19.31	19.46						
15	HQAM	1	36	19.30	19.34	19.43	21	0				
15	HQAM	1	74	19.22	19.29	19.43						
15	HQAM	36	0	19.34	19.40	19.46						
15	HQAM	36	20	19.41	19.43	19.29	21	0				
15	HQAM	36	40	19.31	19.44	19.41						
15	HQAM	75	0	19.34	19.31	19.39						
15	HQAM	75	0	19.41	19.41	19.29						
15	HQAM	1	37	19.34	19.42	19.48	21	0				
15	HQAM	1	74	19.30	19.32	19.37						
15	HQAM	36	20	19.32	19.46	19.38						
15	HQAM	36	40	19.36	19.39	19.29						
15	HQAM	75	0	19.36	19.32	19.34						
15	HQAM	75	0	19.31	19.41	19.36						
15	25GSM	1	49	17.80	17.86	17.85	19	2				
15	25GSM	1	97	17.97	18.12	18.14						
15	25GSM	1	145	17.86	17.82	17.85						
15	25GSM	36	0	17.83	17.85	17.87						
15	25GSM	36	20	17.75	17.81	17.79	19	2				
15	25GSM	75	0	17.86	17.87	17.94						
Channel									19950	19960	19975	
Frequency (MHz)									19950	19960	19975	20000
10	QPSK	1	0	19.42	19.44	19.39						
10	QPSK	1	25	19.51	19.51	19.62	21	0				
10	QPSK	1	50	19.58	19.57	19.65						
10	QPSK	25	0	19.51	19.48	19.46						
10	QPSK	25	12	19.31	19.37	19.43	21	0				
10	QPSK	25	25	19.45	19.46	19.37						
10	QPSK	50	0	19.25	19.41	19.40						
10	HQAM	1	0	19.20	19.42	19.34	21	0				
10	HQAM	1	49	19.38	19.29	19.36						
10	HQAM	25	0	19.42	19.44	19.49						
10	HQAM	25	12	19.43	19.34	19.41	21	0				
10	HQAM	25	25	19.39	19.42	19.45						
10	HQAM	50	0	19.33	19.49	19.50						
10	HQAM	50	0	19.40	19.48	19.52						
10	HQAM	1	25	19.35	19.36	19.40	21	0				
10	HQAM	1	49	19.44	19.36	19.31						
10	HQAM	25	0	19.30	19.46	19.46						
10	HQAM	25	12	19.35	19.50	19.39						
10	HQAM	25	25	19.42	19.34	19.45						
10	HQAM	50	0	19.22	19.39	19.40						
10	25GSM	1	49	17.80	17.82	17.85	19	2				
10	25GSM	1	97	18.03	18.15	18.16						
10	25GSM	1	145	17.85	17.82	17.84						
10	25GSM	25	0	17.85	17.89	17.90						
10	25GSM	25	12	17.74	17.85	17.86	19	2				
10	25GSM	50	0	17.86	17.87	17.89						
Channel									19975	19990	19975	
Frequency (MHz)									19975	19990	19975	20000
5	QPSK	1	0	19.25	19.47	19.28						
5	QPSK	1	12	19.45	19.63	19.46	21	0				
5	QPSK	1	24	19.48	19.47	19.36						
5	QPSK	12	0	19.44	19.44	19.36						
5	QPSK	12	7	19.37	19.39	19.32	21	0				
5	QPSK	12	14	19.36	19.46	19.37						
5	QPSK	25	0	19.31	19.44	19.47						
5	HQAM	1	0	19.18	19.45	19.39	21	0				
5	HQAM	1	12	19.35	19.45	19.36						
5	HQAM	1	24	19.40	19.43	19.43						
5	HQAM	12	0	19.35	19.39	19.43						
5	HQAM	12	7	19.36	19.34	19.43	21	0				
5	HQAM	12	14	19.38	19.40	19.41						
5	HQAM	25	0	19.32	19.50	19.42						
5	HQAM	25	0	19.35	19.52	19.39						
5	HQAM	1	12	19.41	19.41	19.48	21	0				
5	HQAM	1	24	19.27	19.50	19.38						
5	HQAM	12	0	19.42	19.46	19.47						
5	HQAM	12	7	19.43	19.49	19.34	21	1				
5	HQAM	12	14	19.36	19.48	19.40						
5	HQAM	25	0	19.30	19.40	19.34						
5	25GSM	1	49	17.80	17.85	17.94						
5	25GSM	1	97	17.97	18.02	18.03	19	2				
5	25GSM	1	145	17.87	17.94	17.89						
5	25GSM	12	0	17.85	17.89	17.90						
5	25GSM	12	7	17.74	17.85	17.86	19	2				
5	25GSM	12	14	17.89	17.85	17.77						
5	25GSM	25	0	17.94	17.87	17.92						
Channel									19990	19990	19975	
Frequency (MHz)									19990	19990	19975	20000
3	QPSK	1	0	19.30	19.35	19.34						
3	QPSK	1	8	19.53	19.67	19.49	21	0				
3	QPSK	1	16	19.38	19.55	19.36						
3	QPSK	8	0	19.47	19.62	19.53						
3	QPSK	8	4	19.23	19.53	19.34	21	0				
3	QPSK	8	8	19.38	19.52	19.36						
3	QPSK	16	0	19.19	19.47	19.35						
3	HQAM	1	0	19.19	19.37	19.36	21	0				
3	HQAM	1	16	19.28	19.30	19.38						
3	HQAM	1	32	19.38	19.41	19.38						
3	HQAM	8	0	19.37	19.45	19.29	21	0				
3	HQAM	8	8	19.31	19.41	19.30						
3	HQAM	16	0	19.21	19.40	19.40	21	0				
3	HQAM	16	8	19.36	19.45	19.34						
3	HQAM	32	0	19.41	19.41	19.30						
3	HQAM	32	8	19.41	19							



Band 4_Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Timeuse (int./dec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.17	20.24	20.33				
20	QPSK	1	48	20.25	20.27	20.30	22	0		
20	QPSK	1	96	20.33	20.33	20.33				
20	QPSK	50	24	20.12	20.21	20.33				
20	QPSK	50	50	20.12	20.22	20.33	22	0		
20	QPSK	100	0	20.20	20.21	20.20				
20	HQAM	1	0	20.10	20.20	20.35				
20	HQAM	1	48	20.10	20.20	20.21	22	0		
20	HQAM	1	96	20.17	20.24	20.08				
20	HQAM	50	0	20.15	20.20	20.36				
20	HQAM	50	24	20.11	20.20	20.33	22	0		
20	HQAM	50	50	20.18	20.23	20.30				
20	HQAM	100	0	20.18	20.20	20.17				
20	HQAM	1	0	20.10	20.20	20.35				
20	HQAM	1	48	20.17	20.23	20.16	22	0		
20	HQAM	1	96	20.18	20.21	20.20				
20	HQAM	50	0	20.16	20.22	20.32				
20	HQAM	50	24	20.24	20.26	20.16	21	1		
20	HQAM	50	50	20.24	20.24	20.27				
20	HQAM	100	0	20.20	20.20	20.20				
20	SSBDM	1	0	17.18	17.28	17.25				
20	SSBDM	1	48	17.27	17.26	17.29	19	3		
20	SSBDM	1	96	17.27	17.48	17.44				
20	SSBDM	50	0	17.50	17.38	17.32				
20	SSBDM	50	24	17.50	17.38	17.29	19	3		
20	SSBDM	50	50	17.38	17.39	17.33				
20	SSBDM	100	0	17.28	17.33	17.25				
Channel										
Frequency (MHz)										
15										
15	QPSK	1	0	20.09	20.18	20.05				
15	QPSK	1	37	20.17	20.24	20.10	22	0		
15	QPSK	1	74	20.24	20.17	20.14				
15	QPSK	36	0	20.09	20.14	20.13				
15	QPSK	36	20	20.09	20.15	20.03	22	0		
15	QPSK	36	40	20.17	20.17	20.18				
15	QPSK	75	0	20.20	20.16	20.06				
15	HQAM	1	0	20.08	20.24	20.14	22	0		
15	HQAM	1	37	20.09	20.21	20.16				
15	HQAM	1	74	20.10	20.16	20.10				
15	HQAM	36	0	20.10	20.18	20.05				
15	HQAM	36	20	20.08	20.15	20.10	22	0		
15	HQAM	36	36	20.08	20.20	20.06				
15	HQAM	75	0	20.22	20.18	20.13				
15	HQAM	75	0	20.20	20.09	20.18				
15	HQAM	1	37	20.11	20.18	20.15	22	0		
15	HQAM	1	74	20.10	20.16	20.15				
15	HQAM	36	0	20.08	20.20	20.02				
15	HQAM	36	20	20.22	20.23	20.15	21	1		
15	HQAM	36	36	20.16	20.27	20.15				
15	HQAM	75	0	20.18	20.27	20.21				
15	HQAM	75	0	20.18	20.20	20.18				
15	SSBDM	1	0	17.11	17.23	17.22				
15	SSBDM	1	37	17.21	17.26	17.22	19	3		
15	SSBDM	1	74	17.21	17.39	17.42				
15	SSBDM	36	0	17.28	17.37	17.23				
15	SSBDM	36	20	17.27	17.39	17.36	19	3		
15	SSBDM	36	36	17.33	17.34	17.27				
15	SSBDM	75	0	17.22	17.26	17.24				
Channel										
Frequency (MHz)										
10										
10	QPSK	1	0	20.18	20.24	20.30				
10	QPSK	1	25	20.17	20.24	20.30	22	0		
10	QPSK	1	50	20.12	20.16	20.30				
10	QPSK	25	0	20.12	20.20	20.06				
10	QPSK	25	12	20.08	20.17	20.05	22	0		
10	QPSK	25	12	20.18	20.12	20.06				
10	QPSK	50	0	20.12	20.17	20.06				
10	HQAM	1	0	20.11	20.24	20.09	22	0		
10	HQAM	1	25	20.12	20.12	20.17				
10	HQAM	1	48	20.13	20.21	20.11				
10	HQAM	25	0	20.14	20.18	20.08				
10	HQAM	25	12	20.07	20.16	20.01	22	0		
10	HQAM	25	25	20.10	20.18	20.04				
10	HQAM	50	0	20.08	20.19	20.14				
10	HQAM	50	12	20.08	20.11	20.12				
10	HQAM	1	25	20.07	20.12	20.11	22	0		
10	HQAM	1	48	20.13	20.21	20.20				
10	HQAM	25	0	20.10	20.20	20.02				
10	HQAM	25	12	19.22	19.23	19.15	21	1		
10	HQAM	25	25	19.18	19.27	19.21				
10	HQAM	50	0	19.18	19.20	19.18				
10	HQAM	50	12	19.22	19.23	19.15				
10	HQAM	1	0	17.11	17.23	17.22				
10	SSBDM	1	37	17.21	17.26	17.22	19	3		
10	SSBDM	1	74	17.21	17.39	17.42				
10	SSBDM	36	0	17.28	17.37	17.23				
10	SSBDM	36	20	17.27	17.39	17.36	19	3		
10	SSBDM	36	36	17.33	17.34	17.27				
10	SSBDM	75	0	17.22	17.26	17.24				
Channel										
Frequency (MHz)										
3										
3	QPSK	1	0	20.18	20.24	20.30				
3	QPSK	1	8	20.18	20.22	20.19	22	0		
3	QPSK	14	0	20.12	20.23	20.15				
3	QPSK	8	0	20.14	20.23	20.13				
3	QPSK	8	4	20.11	20.09	20.13	22	0		
3	QPSK	14	0	20.04	20.14	20.08				
3	QPSK	16	0	20.10	20.02	20.11				
3	HQAM	1	0	20.00	20.24	20.06				
3	HQAM	8	0	20.07	20.22	20.18	22	0		
3	HQAM	1	14	20.10	20.22	20.03				
3	HQAM	8	0	20.12	20.18	20.12				
3	HQAM	8	4	20.08	20.14	20.06				
3	HQAM	8	7	20.10	20.22	20.08				
3	HQAM	16	0	20.18	20.17	20.11				
3	HQAM	1	8	20.06	20.14	20.13	22	0		
3	HQAM	1	8	20.11	20.18	20.14				
3	HQAM	1	14	20.08	20.12	20.18				
3	HQAM	8	0	19.09	19.20	19.02				
3	HQAM	8	4	19.22	19.23	19.15	21	1		
3	HQAM	8	7	19.18	19.27	19.21				
3	HQAM	16	0	19.18	19.20	19.18				
3	SSBDM	1	0	17.11	17.23	17.22				
3	SSBDM	1	37	17.21	17.26	17.22	19	3		
3	SSBDM	1	74	17.21	17.39	17.42				
3	SSBDM	36	0	17.28	17.37	17.23				
3	SSBDM	36	20	17.27	17.39	17.36				
3	SSBDM	36	36	17.33	17.34	17.27				
3	SSBDM	75	0	17.22	17.26	17.24				
Channel										
Frequency (MHz)										
14										
14	QPSK	1	0	20.18	20.24	20.30				
14	QPSK	1	3	20.13	20.19	20.19	22	0		
14	QPSK	1	6	20.16	20.16	20.16				
14	QPSK	3	0	20.18	20.16	20.14				
14	QPSK	3	3	20.04	20.12	20.07				
14	QPSK	14	0	20.02	20.19	20.10				
14	QPSK	6	0	20.14	20.16	20.02	22	0		
14	HQAM	1	0	20.02	20.22	20.13				
14	HQAM	3	0	20.08	20.24	20.14				
14	HQAM	1	5	20.08	20.19	20.00	22	0		
14	HQAM	1	3	20.06	20.11	20.14				
14	HQAM	3	0	20.10	20.14	20.07				
14	HQAM	3	3	20.10	20.17	20.12				
14	HQAM	6	0	20.14	20.21	20.13	22	0		
14	HQAM	1	0	20.09	20.14	20.12				
14	HQAM	1	3	20.05	20.16	20.18				
14	HQAM	1	5	20.11	20.21	20.11	22	0		
14	HQAM	1	3	20.08	20.08	20.06				
14	HQAM	3	1	20.18	20.16	20.13				
14	HQAM	3	3	20.14	20.12	20.09	21	1		
14	HQAM	6	0	19.18	19.20	19.18				
14	HQAM	6	3	19.22	19.23	19.15				
14	SSBDM	1	0	17.21	17.26	17.22				
14	SSBDM	1	3	17.21	17.39	17.42	19	3		
14	SSBDM	1	7	17.21	17.37	17.39				
14	SSBDM	3	0	17.27	17.32	17.24				
14	SSBDM	3	3	17.17	17.19	17.24				
14	SSBDM	3	7	17.21	17.29	17.28				



Band 7_Ant 31																
BW [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Tune-up (mHz)	MPE (dB)								
Channel																
Frequency (MHz)																
				2585	2100	2130										
30	QPSK	1	0	21.31	21.48	21.13	23	0								
30	QPSK	1	40	21.35	21.56	21.21										
30	QPSK	1	80	21.39	21.60	21.14										
30	QPSK	50	0	21.31	21.42	21.18										
30	QPSK	50	24	21.27	21.43	21.14										
30	QPSK	50	50	21.29	21.43	21.12	23	0								
30	QPSK	100	0	21.30	21.49	21.15										
30	16QAM	1	0	21.31	21.49	21.18										
30	16QAM	1	40	21.27	21.42	21.18										
30	16QAM	1	99	21.27	21.45	21.13										
30	16QAM	50	0	20.50	20.59	20.36	22	1								
30	16QAM	50	24	20.40	20.59	20.36										
30	16QAM	50	50	20.45	20.59	20.36										
30	16QAM	100	0	20.43	20.56	20.36										
30	16QAM	1	0	20.53	20.59	20.33										
30	16QAM	1	40	20.71	20.75	20.52	22	1								
30	16QAM	1	99	20.67	20.56	20.45										
30	16QAM	50	0	19.50	19.53	19.32										
30	16QAM	50	24	19.48	19.52	19.45										
30	16QAM	50	50	19.49	19.48	19.32										
30	16QAM	100	0	19.44	19.58	19.39	21	2								
30	256QAM	1	0	17.04	17.13	17.01										
30	256QAM	1	49	17.19	17.21	17.08										
30	256QAM	1	99	17.11	17.08	17.11										
30	256QAM	50	0	17.19	17.19	17.07										
30	256QAM	50	24	17.19	17.23	17.25	19	4								
30	256QAM	50	50	17.19	17.19	17.25										
30	256QAM	100	0	17.16	17.19	17.10										
30	256QAM	1	0	17.17	17.21	17.23										
30	256QAM	1	99	17.17	17.21	17.23										
Channel																
Frequency (MHz)																
				2585	2100	2130	Tune-Up (mHz)	MPE (dB)								
15	QPSK	1	0	21.29	21.42	21.14	23	0								
15	QPSK	1	37	21.34	21.55	21.17										
15	QPSK	1	74	21.38	21.56	21.14										
15	QPSK	36	0	21.26	21.45	21.21										
15	QPSK	36	20	21.19	21.37	21.09										
15	QPSK	36	50	21.24	21.36	21.13	23	0								
15	QPSK	75	0	21.20	21.41	21.07										
15	16QAM	1	0	21.24	21.46	21.17										
15	16QAM	1	74	21.17	21.41	21.12										
15	16QAM	1	74	21.20	21.36	21.10										
15	16QAM	36	0	20.42	20.55	20.19	22	1								
15	16QAM	36	20	20.35	20.59	20.24										
15	16QAM	36	50	20.35	20.55	20.12										
15	16QAM	75	0	20.34	20.58	20.19										
15	16QAM	1	37	20.45	20.54	20.34										
15	16QAM	1	74	20.49	20.59	20.30	22	1								
15	16QAM	1	74	20.49	20.59	20.30										
15	16QAM	36	0	19.38	19.35	19.19										
15	16QAM	36	20	19.32	19.27	19.22										
15	16QAM	36	50	19.34	19.25	19.12										
15	16QAM	75	0	19.34	19.38	19.19	21	2								
15	256QAM	1	0	17.03	17.15	17.07										
15	256QAM	1	37	17.19	17.19	17.07										
15	256QAM	1	74	17.05	17.21	17.02										
15	256QAM	36	0	17.04	17.09	17.04										
15	256QAM	36	20	17.12	17.19	17.12	19	4								
15	256QAM	36	50	17.12	17.19	17.12										
15	256QAM	75	0	17.08	17.22	17.23										
15	256QAM	1	99	17.08	17.22	17.23										
15	256QAM	1	99	17.08	17.22	17.23										
Channel																
Frequency (MHz)																
				2585	2100	2130	Tune-Up (mHz)	MPE (dB)								
10	QPSK	1	0	21.20	21.42	21.07	23	0								
10	QPSK	1	25	21.31	21.51	21.15										
10	QPSK	1	50	21.29	21.45	21.10										
10	QPSK	25	0	21.26	21.46	21.15										
10	QPSK	25	12	21.30	21.36	21.09										
10	QPSK	50	0	21.25	21.40	21.11	23	0								
10	16QAM	1	0	21.25	21.40	21.12										
10	16QAM	1	49	21.20	21.42	21.13										
10	16QAM	25	0	20.59	20.42	20.25										
10	16QAM	25	12	20.49	20.39	20.28										
10	16QAM	50	0	20.45	20.39	20.28	22	1								
10	16QAM	50	0	20.45	20.39	20.24										
10	16QAM	1	0	20.60	20.46	20.21										
10	16QAM	1	25	20.59	20.55	20.57										
10	16QAM	1	49	20.67	20.57	20.59										
10	16QAM	25	0	19.51	19.47	19.24	21	2								
10	16QAM	25	12	19.45	19.39	19.24										
10	16QAM	50	0	19.41	19.37	19.24										
10	256QAM	1	0	17.09	17.19	17.06										
10	256QAM	1	25	17.19	17.14	17.09										
10	256QAM	1	49	17.11	17.29	17.07	19	4								
10	256QAM	25	0	17.06	17.19	17.02										
10	256QAM	25	12	17.09	17.19	17.23										
10	256QAM	25	12	17.10	17.17	17.01										
10	256QAM	50	0	17.04	17.08	17.15										
Channel																
Frequency (MHz)																
				2585	2100	2130	Tune-Up (mHz)	MPE (dB)								
5	QPSK	1	0	21.21	21.47	21.08	23	0								
5	QPSK	1	12	21.34	21.52	21.15										
5	QPSK	1	24	21.26	21.45	21.14										
5	QPSK	12	0	21.28	21.47	21.15										
5	QPSK	12	7	21.25	21.37	21.09										
5	QPSK	12	13	21.22	21.35	21.06	23	0								
5	QPSK	25	0	21.19	21.48	21.08										
5	16QAM	1	0	21.26	21.44	21.14										
5	16QAM	1	12	21.20	21.40	21.16										
5	16QAM	1	24	21.22	21.40	21.13										
5	16QAM	12	0	20.47	20.40	20.13	22	1								
5	16QAM	12	7	20.52	20.42	20.21										
5	16QAM	12	13	20.53	20.43	20.20										
5	16QAM	25	0	20.48	20.31	20.19										
5	16QAM	25	0	20.61	20.54	20.25										
5	16QAM	25	12	20.48	20.31	20.21	22	1								
5	16QAM	25	12	20.48	20.31	20.21										
5	16QAM	1	24	20.54	20.61	20.38										
5	16QAM	12	0	19.47	19.38	19.18										
5	16QAM	12	7	19.47	19.38	19.18										
5	16QAM	12	13	19.50	19.38	19.21	21	2								
5	16QAM	25	0	19.44	19.37	19.19										
5	16QAM	25	12	19.44	19.37	19.19										
5	256QAM	1	12	17.06	17.17	17.03										
5	256QAM	1	24	17.10	17.18	17.02										
5	256QAM	1	49	17.10	17.18	17.02	19	4								
5	256QAM	12	7	17.16	17.15	17.01										
5	256QAM	12	13	17.01	17.02	17.04										
5	256QAM	12	13	17.01	17.02	17.04										
5	256QAM	12	13	17.01	17.02	17.04										
Channel																
Frequency (MHz)																
				2585	2100	2130	Tune-Up (mHz)	MPE (dB)								



Band 13_Ant 13									
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)	
Channel							2330		
Frequency (MHz)									
10	QPSK	1	0	22.87			24	0	
10	QPSK	1	25	23.08					
10	QPSK	1	49	22.78					
10	QPSK	25	0	21.89			23	1	
10	QPSK	25	12	21.84					
10	QPSK	25	25	21.84					
10	QPSK	50	0	21.85			23	1	
10	16QAM	1	0	22.26					
10	16QAM	1	25	21.89					
10	16QAM	1	49	22.54			22	2	
10	16QAM	25	0	20.96					
10	16QAM	25	12	20.96					
10	16QAM	25	25	20.95			22	2	
10	16QAM	50	0	20.82					
10	16QAM	1	0	21.27					
10	16QAM	1	25	21.25			22	2	
10	16QAM	1	49	21.17					
10	16QAM	25	0	19.97					
10	16QAM	25	12	19.87			21	3	
10	16QAM	25	25	19.87					
10	16QAM	50	0	19.90					
10	256QAM	1	0	17.88			19	5	
10	256QAM	1	25	18.02					
10	256QAM	1	49	17.98					
10	256QAM	25	0	17.98			19	5	
10	256QAM	25	12	17.84					
10	256QAM	25	25	17.99					
10	256QAM	50	0	17.92			19	5	
Channel									
Frequency (MHz)									
2350									
2350									
2350									
5	QPSK	1	0	22.88	22.87	22.73	24	0	
5	QPSK	1	12	22.89	22.91	22.86			
5	QPSK	1	24	22.78	22.81	22.87			
5	QPSK	12	0	21.88	21.90	21.82	23	1	
5	QPSK	12	7	21.89	21.93	21.87			
5	QPSK	12	13	21.98	21.98	21.99			
5	QPSK	25	0	21.92	21.94	21.85	23	1	
5	16QAM	1	0	22.31	22.08	22.11			
5	16QAM	1	12	22.48	21.95	22.11			
5	16QAM	1	24	22.14	22.00	22.19	22	2	
5	16QAM	12	0	20.88	21.64	21.00			
5	16QAM	12	7	20.94	21.01	20.93			
5	16QAM	12	13	21.07	20.89	20.81	22	2	
5	16QAM	25	0	20.91	20.86	20.76			
5	16QAM	1	24	21.14	21.07	21.12			
5	16QAM	1	12	20.87	21.05	20.92	22	2	
5	16QAM	1	24	21.14	21.07	21.12			
5	16QAM	12	0	19.80	19.87	19.78			
5	16QAM	12	7	19.90	19.94	19.79	21	3	
5	16QAM	12	13	19.89	19.93	19.96			
5	16QAM	25	0	19.90	19.96	19.78			
5	256QAM	1	0	17.79	17.80	17.67	19	5	
5	256QAM	1	12	17.87	18.02	17.85			
5	256QAM	1	24	17.88	17.91	17.88			
5	256QAM	12	0	17.87	17.83	17.77	19	5	
5	256QAM	12	7	17.94	17.83	17.86			
5	256QAM	12	13	17.85	17.88	17.73			
5	256QAM	25	0	17.89	17.91	17.87			

Band 13_Ant 31												
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)				
Channel				2320								
Frequency (MHz)												
10	QPSK	1	0	22.53			24	0				
10	QPSK	1	25	22.67								
10	QPSK	1	49	22.52								
10	QPSK	25	0	21.68			23	1				
10	QPSK	25	12	21.62								
10	QPSK	25	25	21.61								
10	QPSK	50	0	21.71			23	1				
10	16QAM	1	0	22.09								
10	16QAM	1	25	21.98								
10	16QAM	1	49	22.18			22	2				
10	16QAM	25	0	20.61								
10	16QAM	25	12	20.61								
10	16QAM	25	25	20.79			22	2				
10	16QAM	50	0	20.80								
10	16QAM	1	0	21.09								
10	16QAM	1	25	21.41			22	2				
10	16QAM	1	49	20.95								
10	16QAM	25	0	19.87								
10	16QAM	25	12	19.71			21	3				
10	16QAM	25	25	19.85								
10	16QAM	50	0	19.83								
10	256QAM	1	0	17.77			19	5				
10	256QAM	1	25	17.72								
10	256QAM	1	49	17.75								
Channel				23205	23210	23215						
Frequency (MHz)										Turn-up time (dB)		MPE (dB)
5	QPSK	1	0	22.27	22.50	22.49				24	0	
5	QPSK	1	12	22.39	22.64	22.58						
5	QPSK	1	24	22.33	22.55	22.45						
5	QPSK	12	0	21.40	21.59	21.58	23	1				
5	QPSK	12	7	21.41	21.65	21.57						
5	QPSK	12	13	21.43	21.49	21.51						
5	QPSK	25	0	21.39	21.62	21.58	23	1				
5	16QAM	1	0	21.57	21.92	21.86						
5	16QAM	1	12	21.67	22.18	21.81						
5	16QAM	1	24	21.67	21.73	21.99	22	2				
5	16QAM	12	0	20.43	20.51	20.66						
5	16QAM	12	7	20.42	20.44	20.72						
5	16QAM	12	13	20.47	20.76	20.70	22	2				
5	16QAM	25	0	20.40	20.61	20.62						
5	16QAM	1	0	20.93	20.90	21.23						
5	16QAM	1	12	20.60	20.65	21.35	22	2				
5	16QAM	1	24	20.59	20.77	21.00						
5	16QAM	12	0	19.42	19.75	19.98						
5	16QAM	12	7	19.40	19.57	19.70	21	3				
5	16QAM	12	13	19.44	19.77	19.82						
5	16QAM	25	0	19.40	19.57	19.73						
5	256QAM	1	0	17.63	17.70	17.74	19	5				
5	256QAM	1	12	17.62	17.67	17.86						
5	256QAM	1	24	17.65	17.62	17.64						
5	256QAM	12	0	17.66	17.70	17.67	19	5				
5	256QAM	12	7	17.72	17.73	17.73						
5	256QAM	12	13	17.64	17.57	17.48						
5	256QAM	25	0	17.61	17.62	17.61						

Band 17_Ant 13											
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch [F, Ch]	Power Mid Ch [F, Ch]	Power High Ch [F, Ch]	Turnup time (dBm)	MPE (dB)			
Channel				23700	23750	23800					
Frequency (MHz)											
10	QPSK	1	0	22.96	23.04	22.92	24.5	0			
10	QPSK	1	25	23.20	23.24	23.15					
10	QPSK	1	49	23.07	23.15	23.05					
10	QPSK	25	0	22.21	22.24	22.22	23.5	1			
10	QPSK	25	12	22.09	22.20	22.18					
10	QPSK	25	25	22.08	22.12	22.12					
10	QPSK	50	0	22.11	22.16	22.09	23.5	1			
10	16QAM	1	0	22.43	22.28	22.22					
10	16QAM	1	25	22.41	22.27	22.24					
10	16QAM	1	49	22.50	22.41	22.31	22.5	2			
10	16QAM	25	0	21.18	21.01	21.10					
10	16QAM	25	12	21.17	21.06	21.15					
10	16QAM	25	25	21.17	21.06	21.15	22.5	2			
10	16QAM	50	0	21.07	21.07	21.03					
10	16QAM	50	12	21.06	21.05	21.03					
10	16QAM	1	0	21.81	21.49	21.10	22.5	2			
10	16QAM	1	25	21.87	21.49	21.10					
10	16QAM	1	49	21.31	21.64	21.43					
10	16QAM	25	0	20.15	20.15	20.09	21.5	3			
10	16QAM	25	12	20.16	20.05	20.05					
10	16QAM	25	25	20.14	20.18	20.09					
10	256QAM	1	0	18.45	18.44	18.37	19.5	5			
10	256QAM	1	25	18.31	18.42	18.29					
10	256QAM	1	49	18.36	18.34	18.36					
10	256QAM	25	0	18.29	18.29	18.29	19.5	5			
10	256QAM	25	12	18.28	18.32	18.30					
10	256QAM	25	25	18.30	18.33	18.30					
10	256QAM	50	0	18.33	18.31	18.43	19.5	5			
Channel				23765	23790	23825					
Frequency (MHz)										Turn-up time (dBm)	MPE (dB)
5	QPSK	1	0	23.14	23.14	23.09	24.5	0			
5	QPSK	1	12	23.12	23.22	23.15					
5	QPSK	1	24	23.20	23.21	23.08					
5	QPSK	12	0	22.18	22.21	22.18	24.5	0			
5	QPSK	12	12	22.24	22.28	22.14					
5	QPSK	12	24	22.24	22.28	22.14					
5	QPSK	12	36	22.24	22.28	22.21	23.5	1			
5	16QAM	1	0	22.67	22.70	22.24					
5	16QAM	1	12	22.75	22.80	22.42					
5	16QAM	1	24	22.84	22.84	22.44	23.5	1			
5	16QAM	12	0	21.23	21.08	21.14					
5	16QAM	12	7	21.33	21.01	21.14					
5	16QAM	12	7	21.34	21.04	21.27	22.5	2			
5	16QAM	25	0	21.24	21.17	21.15					
5	16QAM	25	1	21.24	21.16	21.38					
5	16QAM	1	0	21.24	21.17	21.38	22.5	2			
5	16QAM	1	12	21.24	21.16	21.38					
5	16QAM	1	24	21.16	21.62	21.59					
5	16QAM	12	0	20.16	20.16	20.09	21.5	3			
5	16QAM	12	7	20.16	20.16	20.09					
5	16QAM	12	25	20.32	20.19	20.20					
5	16QAM	12	19	20.17	20.32	20.25	19.5	5			
5	256QAM	1	0	18.33	18.33	18.27					
5	256QAM	1	0	18.46	18.33	18.33					
5	256QAM	1	12	18.37	18.42	18.24	19.5	5			
5	256QAM	1	12	18.37	18.42	18.23					
5	256QAM	12	0	18.19	18.20	18.22					
5	256QAM	12	7	18.27	18.35	18.21	19.5	5			
5	256QAM	12	7	18.33	18.33	18.33					
5	256QAM	25	0	18.21	18.21	18.05					



Band 26_Ant 13																		
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Incl (dB)	MPR (dB)										
Channel																		
Frequency (MHz)				26765	26765	26765	Turnup Incl (dB)	MPR (dB)										
				811.5	811.5	811.5												
15	QPSK	1	0	23.38	23.27	23.35	25	0										
15	QPSK	1	37	23.40	23.53	23.43												
15	QPSK	1	74	23.34	23.28	23.29												
15	QPSK	36	0	22.51	22.56	22.53												
15	QPSK	36	20	22.47	22.49	22.37												
15	QPSK	36	39	22.47	22.48	22.38	24	1										
15	QPSK	75	0	22.40	22.46	22.40												
15	16QAM	1	0	22.58	22.59	22.29												
15	16QAM	1	37	22.57	22.53	22.58												
15	16QAM	1	74	23.38	23.84	22.60												
15	16QAM	36	0	21.46	21.46	21.47	23	2										
15	16QAM	36	20	21.50	21.52	21.50												
15	16QAM	36	39	21.63	21.48	21.44												
15	16QAM	75	0	21.47	21.47	21.42												
15	64QAM	1	0	21.71	21.70	21.59												
15	64QAM	1	37	21.35	21.28	21.85	23	2										
15	64QAM	1	74	21.23	21.24	21.72												
15	64QAM	36	0	20.56	20.44	20.49												
15	64QAM	36	20	20.63	20.47	20.43												
15	64QAM	36	39	20.52	20.46	20.44												
15	64QAM	75	0	20.54	20.43	20.40	22	3										
15	256QAM	1	0	18.99	18.94	18.94												
15	256QAM	1	37	18.90	18.91	18.92												
15	256QAM	1	74	19.06	19.06	19.09												
15	256QAM	36	0	18.93	18.97	18.95												
15	256QAM	36	20	18.95	18.99	18.94	20	5										
15	256QAM	36	39	19.02	19.03	18.98												
15	256QAM	75	0	18.93	18.96	18.97												
Channel																		
Frequency (MHz)				26765	26765	26765	Turnup Incl (dB)						MPR (dB)					
				811.5	811.5	811.5												
5	QPSK	1	0	23.17	23.04	23.04	25	0										
5	QPSK	1	25	23.22	23.30	23.28												
5	QPSK	1	49	23.12	23.11	23.07												
5	QPSK	25	0	22.28	22.15	22.24												
5	QPSK	25	12	22.22	22.21	22.28												
5	QPSK	25	25	22.29	22.33	22.21	24	1										
5	QPSK	50	0	22.38	22.17	22.27												
5	16QAM	1	0	22.33	22.71	22.31												
5	16QAM	1	37	22.17	22.55	22.38												
5	16QAM	1	49	22.15	22.87	22.43												
5	16QAM	25	0	21.22	21.26	21.26	23	2										
5	16QAM	25	12	21.34	21.31	21.40												
5	16QAM	25	25	21.39	21.24	21.24												
5	16QAM	50	0	21.28	21.24	21.20												
5	64QAM	1	0	21.47	21.52	21.41												
5	64QAM	1	25	21.18	21.12	21.55	23	2										
5	64QAM	1	49	21.02	21.00	21.46												
5	64QAM	25	0	20.53	20.26	20.31												
5	64QAM	25	12	20.58	20.24	20.18												
5	64QAM	25	25	20.50	20.27	20.19												
5	64QAM	50	0	20.59	20.25	20.21	22	3										
5	256QAM	1	0	18.99	18.95	18.95												
5	256QAM	1	25	18.91	18.79	18.83												
5	256QAM	1	49	19.07	19.03	19.08												
5	256QAM	25	0	18.91	18.94	18.85												
5	256QAM	25	12	18.94	18.93	18.91	20	5										
5	256QAM	25	25	18.99	18.97	18.95												
5	256QAM	50	0	18.74	18.87	18.77												
Channel																		
Frequency (MHz)				26765	26765	26765	Turnup Incl (dB)						MPR (dB)					
				811.5	811.5	811.5												
5	QPSK	1	0	23.14	23.05	23.02	25	0										
5	QPSK	1	12	23.15	23.32	23.18												
5	QPSK	1	24	23.11	23.07	23.05												
5	QPSK	12	0	22.25	22.11	22.25												
5	QPSK	12	7	22.28	22.20	22.27												
5	QPSK	12	13	22.32	22.34	22.32	24	1										
5	QPSK	25	0	22.43	22.19	22.23												
5	16QAM	1	0	22.41	22.70	22.33												
5	16QAM	1	12	22.13	22.60	22.41												
5	16QAM	1	24	22.21	22.60	22.41												
5	16QAM	12	0	21.21	21.26	21.29	23	2										
5	16QAM	12	7	21.25	21.30	21.38												
5	16QAM	12	13	21.41	21.25	21.27												
5	16QAM	25	0	21.30	21.23	21.17												
5	64QAM	1	0	21.46	21.53	21.38												
5	64QAM	1	12	21.17	21.07	21.64	23	2										
5	64QAM	1	24	21.01	21.01	21.47												
5	64QAM	12	0	20.38	20.20	20.25												
5	64QAM	12	7	20.44	20.22	20.23												
5	64QAM	12	13	20.34	20.24	20.27												
5	64QAM	25	0	20.39	20.19	20.20	22	3										
5	256QAM	1	0	18.92	18.96	18.81												
5	256QAM	1	12	18.97	18.79	18.81												
5	256QAM	1	24	18.97	18.98	18.92												
5	256QAM	12	7	18.92	18.95	18.87												
5	256QAM	12	13	18.96	18.96	18.95	20	5										
5	256QAM	25	0	18.77	18.99	18.78												
Channel																		
Frequency (MHz)				26765	26765	26765							Turnup Incl (dB)	MPR (dB)				
				811.5	811.5	811.5												
3	QPSK	1	0	23.15	23.09	23.03	25		0									
3	QPSK	1	8	23.24	23.39	23.20												
3	QPSK	1	14	23.15	23.07	23.03												
3	QPSK	8	0	22.31	22.18	22.28												
3	QPSK	8	7	22.28	22.38	22.32	24	1										
3	QPSK	8	14	22.31	22.41	22.35												
3	QPSK	8	21	22.22	22.12	22.28												
3	QPSK	8	28	22.22	22.12	22.28												
3	QPSK	8	35	22.28	22.38	22.32	23	2										
3	QPSK	16	0	21.28	21.28	21.20												
3	QPSK	16	8	21.28	21.28	21.20												
3	QPSK	16	16	21.28	21.28	21.20												
3	QPSK	16	24	21.28	21.28	21.20	22	3										
3	QPSK	16	32	21.28	21.28	21.20												
3	QPSK	16	40	21.28	21.28	21.20												
3	QPSK	16	48	21.28	21.28	21.20												
3	QPSK	16	56	21.28	21.28	21.20	21	4										
3	QPSK	16	64	21.28	21.28	21.20												
3	QPSK	16	72	21.28	21.28	21.20												
3	QPSK	16	80	21.28	21.28	21.20												
3	QPSK	16	88	21.28	21.28	21.20	20	5										
3	QPSK	16	96	21.28	21.28	21.20												
3	QPSK	16	104	21.28	21.28	21.20												
3	QPSK	16	112	21.28	21.28	21.20												
3	QPSK	16	120	21.28	21.28	21.20	19	6										
3	QPSK	16	128	21.28	21.28	21.20												
3	QPSK	16	136	21.28	21.28	21.20												
3	QPSK	16	144	21.28	21.28	21.20												
3	QPSK	16	152	21.28	21.28	21.20	18	7										
3	QPSK	16	160	21.28	21.28	21.20												
3	QPSK	16	168	21.28	21.28	21.20												
3	QPSK	16	176	21.28	21.28	21.20												
3	QPSK	16	184	21.28	21.28	21.20	17	8										
3	QPSK	16	192	21.28	21.28	21.20												
3	QPSK	16	200	21.28	21.28	21.20												
3	QPSK	16	208	21.28	21.28	21.20												
3	QPSK	16	216	21.28	21.28	21.20	16	9										
3	QPSK	16	224	21.28	21.28	21.20												
3	QPSK	16	232	21.28	21.28	21.20												
3	QPSK	16	240	21.28	21.28	21.20												
3	QPSK	16	248	21.28	21.28	21.20	15	10										
3	QPSK	16	256	21.28	21.28	21.20												
3	QPSK	16	264	21.28	21.28	21.20												
3	QPSK	16	272	21.28	21.28	21.20												
3	QPSK	16	280	21.28	21.28	21.20	14	11										
3	QPSK	16	288	21.28	21.28	21.20												
3	QPSK	16	296	21.28	21.28	21.20												
3	QPSK	16	304	21.28	21.28	21.20												
3	QPSK	16	312	21.28	21.28	21.20	13	12										
3	QPSK	16	320	21.28	21.28	21.20												
3	QPSK	16	328	21.28	21.28	21.20												
3	QPSK	16	336	21.28	21.28	21.20												
3	QPSK	16	344	21.28	21.28	21.20	12	13										
3	QPSK	16	352	21.28	21.28	21.20												
3	QPSK	16	360	21.28	21.28	21.20												
3	QPSK	16	368	21.28	21.28	21.20												
3	QPSK	16	376	21.28	21.28	21.20	11	14										
3	QPSK	16	384	21.28	21.28	21.20												
3	QPSK	16	392	21.28	21.28	21.20												
3	QPSK	16	400	21.28	21.28	21.20												
3	QPSK	16	408	21.28	21.28	21.20	10	15										
3	QPSK	16	416	21.28	21.28	21.20												
3	QPSK	16	424	21.28	21.28	21.20												
3	QPSK	16	432	21.28	21.28	21.20												
3	QPSK	16	440	21.28	21.28	21.20	9	16										
3	QPSK	16	448	21.28	21.28	21.20												
3	QPSK	16	456	21.28	21.28	21.20												
3	QPSK	16	464	21.28	21.28	21.20												
3	QPSK	16	472	21.28	21.28	21.20	8	17										
3	QPSK	16	480	21.28	21.28	21.20												
3	QPSK	16	488	21.28	21.28	21.20												
3	QPSK	16	496	21.28	21.28	21.20												
3	QPSK	16	504	21.28	21.28	21.20	7	18										
3	QPSK	16	512	21.28	21.28	21.20												
3	QPSK	16	520	21.28	21.28	21.20												
3	QPSK	16	528	21.28</														

Band 66_Ant 31														
(BW [MHz])	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-on (ms)	MFR (dB)						
Channel														
Channel				130072	130322	130572								
20	QPSK	1	0	20.79	20.79	20.50	22.5	0						
20	QPSK	1	48	20.64	21.05	20.99								
20	QPSK	1	99	20.83	20.85	20.77								
20	QPSK	50	0	20.87	20.82	20.83								
20	QPSK	50	24	20.84	20.82	20.81								
20	QPSK	50	50	20.81	20.82	20.83	22.5	0						
20	16QAM	1	0	20.87	20.85	20.79								
20	16QAM	1	48	20.75	20.78	20.77								
20	16QAM	1	99	20.91	20.89	20.77								
20	16QAM	50	0	20.72	20.65	20.86								
20	16QAM	50	24	20.85	20.85	20.81	22.5	0						
20	16QAM	50	50	20.79	20.84	20.88								
20	16QAM	100	0	20.90	20.89	20.77								
20	16QAM	1	0	20.73	20.87	20.79								
20	16QAM	1	48	20.79	20.87	20.85								
20	64QAM	1	99	20.88	20.85	20.81	22.5	0						
20	64QAM	50	0	19.99	20.92	20.90								
20	64QAM	50	24	20.91	20.97	20.90								
20	64QAM	50	50	20.91	20.91	20.90								
20	256QAM	1	0	17.68	17.79	17.77								
20	256QAM	1	48	17.85	17.87	17.74	19.5	3						
20	256QAM	1	99	17.85	17.82	17.74								
20	256QAM	50	0	17.63	17.77	17.72								
20	256QAM	50	24	17.67	17.79	17.78								
20	256QAM	50	50	17.73	17.83	17.83								
20	256QAM	100	0	17.74	17.85	17.79	19.5	3						
Channel														
130047 130322 130582														
15	QPSK	1	0	20.73	20.67	20.77			22.5	0				
15	QPSK	1	37	20.86	20.91	20.83								
15	QPSK	1	74	20.79	20.74	20.74								
15	QPSK	36	0	20.81	20.80	20.78								
15	QPSK	36	20	20.78	20.73	20.74								
15	QPSK	36	50	20.71	20.61	20.81	22.5	0						
15	QPSK	75	0	20.73	20.83	20.82								
15	16QAM	1	0	20.66	20.75	20.72								
15	16QAM	1	37	20.64	20.65	20.68								
15	16QAM	1	74	20.83	20.85	20.81								
15	16QAM	36	0	20.57	20.50	20.71	22.5	0						
15	16QAM	36	20	20.71	20.78	20.78								
15	16QAM	36	36	20.74	20.75	20.84								
15	16QAM	75	0	20.77	20.80	20.80								
15	16QAM	1	0	20.68	20.82	20.77								
15	64QAM	1	37	20.59	20.79	20.85	22.5	0						
15	64QAM	1	74	20.66	20.86	20.81								
15	64QAM	36	0	19.83	19.85	19.89								
15	64QAM	36	20	19.81	19.85	19.84								
15	64QAM	36	59	19.78	19.86	19.89								
15	256QAM	1	0	17.64	17.77	17.70	19.5	3						
15	256QAM	1	37	17.88	17.76	17.72								
15	256QAM	1	74	17.72	17.73	17.74								
15	256QAM	36	0	17.62	17.72	17.69								
15	256QAM	36	20	17.59	17.62	17.70								
15	256QAM	36	59	17.65	17.77	17.76	19.5	3						
15	256QAM	75	0	17.69	17.83	17.73								
Channel														
130022 130322 130622														
10	QPSK	1	0	20.72	20.70	20.83	22.5	0						
10	QPSK	1	25	20.74	20.93	20.88								
10	QPSK	1	48	20.62	20.69	20.70								
10	QPSK	25	0	20.83	20.74	20.74								
10	QPSK	25	12	20.68	20.76	20.66								
10	QPSK	25	26	20.78	20.72	20.75	22.5	0						
10	QPSK	50	0	20.67	20.71	20.75								
10	16QAM	1	0	20.68	20.67	20.72								
10	16QAM	1	49	20.81	20.75	20.87								
10	16QAM	25	0	20.56	20.50	20.84								
10	16QAM	25	12	20.72	20.91	20.72	22.5	0						
10	16QAM	25	25	20.68	20.69	20.71								
10	16QAM	50	0	20.80	20.87	20.81								
10	16QAM	50	0	20.64	20.73	20.58								
10	64QAM	1	25	20.59	20.71	20.71								
10	64QAM	1	49	20.81	20.74	20.80	22.5	0						
10	64QAM	25	0	19.91	19.96	19.90								
10	64QAM	25	12	20.68	19.94	20.59								
10	64QAM	25	25	20.07	19.97	20.01								
10	64QAM	50	0	19.99	19.94	19.91								
10	256QAM	1	0	17.61	17.71	17.62	19.5	3						
10	256QAM	1	25	17.76	17.85	17.75								
10	256QAM	1	49	17.78	17.69	17.62								
10	256QAM	25	0	17.55	17.73	17.70								
10	256QAM	25	12	17.69	17.61	17.64								
10	256QAM	25	25	17.71	17.80	17.69	19.5	3						
10	256QAM	50	0	17.63	17.79	17.66								
Channel														
130097 130322 130647														
5	QPSK	1	0	20.64	20.74	20.74	22.5	0						
5	QPSK	1	12	20.67	20.93	20.89								
5	QPSK	1	24	20.77	20.76	20.65								
5	QPSK	12	0	20.84	20.81	20.72								
5	QPSK	12	7	20.81	20.61	20.69								
5	QPSK	12	11	20.64	20.77	20.74	22.5	0						
5	QPSK	25	0	20.69	20.81	20.66								
5	16QAM	1	0	20.83	20.75	20.59								
5	16QAM	1	12	20.70	20.71	20.69								
5	16QAM	1	24	20.83	20.74	20.88								
5	16QAM	12	0	20.68	20.63	20.71	22.5	0						
5	16QAM	12	7	20.68	20.78	20.65								
5	16QAM	12	13	20.81	20.88	20.71								
5	16QAM	25	0	20.69	20.75	20.94								
5	16QAM	1	0	20.70	20.66	20.61								
5	64QAM	1	12	20.68	20.82	20.76	22.5	0						
5	64QAM	1	24	20.83	20.69	20.79								
5	64QAM	12	0	19.91	19.93	19.91								
5	64QAM	12	7	19.94	19.99	20.11								
5	64QAM	12	13	19.89	19.99	20.04								
5	256QAM	1	0	17.62	17.79	17.74	19.5	3						
5	256QAM	1	12	17.78	17.77	17.73								
5	256QAM	1	24	17.78	17.69	17.59								
5	256QAM	12	0	17.55	17.73	17.70								
5	256QAM	12	7	17.66	17.73	17.67								
5	256QAM	12	13	17.60	17.85	17.86	19.5	3						
5	256QAM	25	0	17.63	17.79	17.66								
Channel														
130167 130322 130657														
5	QPSK	1	0	20.64	20.74	20.74	22.5	0						
5	QPSK	1	8	20.73	20.85	20.82								
5	QPSK	1	14	20.73	20.79	20.66								
5	QPSK	8	0	20.84	20.81	20.72								
5	QPSK	8	7	20.79	20.70	20.78								
5	QPSK	8	14	20.64	20.77	20.74	22.5	0						
5	QPSK	16	0	20.69	20.80	20.65								
5	16QAM	1	0	20.83	20.75	20.59								
5	16QAM	1	8	20.69	20.67	20.65								
5	16QAM	1	14	20.83	20.72	20.87								
5	16QAM	8	0	20.51	20.64	20.81	22.5	0						
5	16QAM	8	4	20.84	20.75	20.69								
5	16QAM	8	14	20.80	20.80	20.80								
5	16QAM	16	0	20.71	20.67	20.65								
5	16QAM	1	0	20.61	20.67	20.63								
5	64QAM	1	8	20.69	20.71	20.79	22.5	0						
5	64QAM	1	14	20.78	20.62	20.73								
5	64QAM	8	0	20.67	20.69	20.78								
5	64QAM	8	4	20.77	20.68	20.78								
5	64QAM	8	7	20.73	20.67	20.63								
5	64QAM	16	0	20.78	20.77	20.65	21.5	1						
5	64QAM	16	4	20.77	20.78	20.77								
5	64QAM	8	8	17.73	17.63	17.68								
5	256QAM	1	14	17.74	17.71	17.71								
5	256QAM	1	24	17.74	17.63	17.63								
5	256QAM	8	4	17.61	17.70	17.78	19.5	3						
5	256QAM	8	7	17.67	17.70	17.78								
5	256QAM	8	14	17.67	17.78	17.78								
5	256QAM	16	0	17.64	17.74	17.79								
5	256QAM	16	4	17.67	17.74	17.78								
5	256QAM	16	8	17.67	17.88	17.78	19.5	3						
5	256QAM	32	0	17.67	17.88	17.78								
Channel														
130172 1746 1770														
1.4	QPSK	1	0	20.74	20.94	20.74	22.5	0						
1.4	QPSK	1	48	20.76	20.67	20.66								
1.4	QPSK	1	96	20.76	20.78	20.78								
1.4	QPSK	31	0	20.70	20.70	20.62								
1.4	QPSK	31	3	20.63	20.69	20.75								
1.4	16QAM	1	0	20.84	20.60	20.60	22.5	0						
1.4	16QAM	1	3	20.67	20.70	20.66								
1.4	16QAM	31	0	20.68	20.68	20.68								
1.4	16QAM	31	3	20.59	20.75	20.84								
1.4	16QAM	1	0	20.70	20.68	20.78								
1.4	16QAM	1	3	20.71	20.78	20.68	22.5	0						
1.4	16QAM	31	0	20.68	20.77	20.70								
1.4	16QAM	31	3	20.67	20.70	20.63								
1.4	16QAM	1	0	20.80	20.78	20.61								
1.4	16QAM	1	3	20.65	20.67	20.65								
1.4	64QAM	1	3	19.94	19.96	20.02	21.5	1						
1.4	64QAM	1	6	20.67	20.68	20.67								
1.4	64QAM	1	9	17.82	17.74	17.98								
1.4	64QAM	1	12	17.78	17.78	17.78								
1.4	64QAM	1	15	17.67	17.74	17.78								



Band 38_Ant 13										
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turnup Init. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	5	20.89	20.80	20.72			22	
20	QPSK	1	49	20.72	20.68	20.65				
20	QPSK	1	96	20.67	20.63	20.62				
20	QPSK	50	5	20.60	20.50	20.51				
20	QPSK	50	24	20.56	20.52	20.78				
20	QPSK	50	50	20.50	20.47	20.75			22	
20	QPSK	100	5	20.52	20.52	20.65				
20	16QAM	1	5	20.51	20.49	20.78				
20	16QAM	1	49	20.50	20.47	20.63				
20	16QAM	1	99	20.84	20.94	20.78				
20	16QAM	50	5	20.54	20.78	20.65			22	
20	16QAM	50	24	20.54	20.70	20.67				
20	16QAM	50	50	20.51	20.86	20.72				
20	16QAM	100	5	20.49	20.77	20.65				
20	64QAM	1	49	20.57	20.53	20.87				
20	64QAM	1	99	20.57	20.94	20.83			22	
20	64QAM	50	5	20.52	20.87	20.69				
20	64QAM	50	24	20.57	20.88	20.74				
20	64QAM	50	50	20.59	20.77	20.75				
20	256QAM	1	5	18.69	18.74	18.68				
20	256QAM	1	49	18.48	18.63	18.69			20	
20	256QAM	1	99	18.81	18.75	18.79				
20	256QAM	50	5	18.67	18.79	18.73				
20	256QAM	50	24	18.73	18.72	18.73				
20	256QAM	50	50	18.66	18.73	18.74				
Channel										
Frequency (MHz)										
15	QPSK	1	5	20.82	20.82	20.64			22	
15	QPSK	1	37	20.70	20.81	20.78				
15	QPSK	1	74	20.75	20.80	20.73				
15	QPSK	36	5	20.66	20.78	20.64				
15	QPSK	36	20	20.56	20.78	20.73				
15	QPSK	36	36	20.53	20.83	20.69			22	
15	QPSK	75	5	20.82	20.90	20.62				
15	16QAM	1	5	20.69	20.83	20.65				
15	16QAM	1	37	20.52	20.85	20.73				
15	16QAM	1	74	20.61	20.80	20.70				
15	16QAM	36	5	20.87	20.78	20.73			22	
15	16QAM	36	20	20.82	20.83	20.81				
15	16QAM	36	36	20.82	20.76	20.64				
15	16QAM	75	5	20.53	20.85	20.65				
15	64QAM	1	37	20.80	20.80	20.69				
15	64QAM	1	74	20.80	20.83	20.68			22	
15	64QAM	36	5	20.79	20.85	20.81				
15	64QAM	36	20	20.81	20.77	20.74				
15	64QAM	36	36	20.54	20.84	20.71				
15	64QAM	75	5	20.85	20.83	20.81				
15	256QAM	1	5	18.65	18.72	18.69			20	
15	256QAM	1	37	18.34	18.61	18.66				
15	256QAM	1	74	18.61	18.63	18.65				
15	256QAM	36	5	18.53	18.78	18.75				
15	256QAM	36	20	18.52	18.71	18.68				
15	256QAM	75	5	18.66	18.68	18.68			20	
15	256QAM	75	36	18.52	18.75	18.65				
Channel										
Frequency (MHz)										
10	QPSK	1	5	20.55	20.88	20.55			22	
10	QPSK	1	25	20.58	20.75	20.71				
10	QPSK	1	49	20.52	20.83	20.63				
10	QPSK	25	5	20.55	20.87	20.62				
10	QPSK	25	12	20.60	20.92	20.64				
10	QPSK	50	5	20.57	20.89	20.61			22	
10	QPSK	50	5	20.52	20.83	20.63				
10	16QAM	1	5	20.59	20.83	20.64				
10	16QAM	1	25	20.52	20.86	20.71				
10	16QAM	1	49	20.81	20.93	20.69				
10	16QAM	25	5	20.55	20.94	20.67			22	
10	16QAM	25	12	20.68	20.90	20.80				
10	16QAM	25	25	20.84	20.84	20.71				
10	16QAM	50	5	20.66	20.89	20.81				
10	16QAM	50	5	20.60	20.88	20.69				
10	64QAM	1	25	20.52	20.86	20.65			22	
10	64QAM	1	49	20.83	20.89	20.71				
10	64QAM	25	5	20.65	20.91	20.73				
10	64QAM	25	12	20.58	20.83	20.69				
10	64QAM	25	25	20.59	20.75	20.70				
10	64QAM	50	5	20.54	20.77	20.65			22	
10	256QAM	1	5	18.69	18.72	18.67				
10	256QAM	1	25	18.42	18.61	18.61				
10	256QAM	1	49	18.47	18.68	18.62				
10	256QAM	25	5	18.53	18.68	18.69				
10	256QAM	25	12	18.63	18.57	18.71			20	
10	256QAM	25	25	18.54	18.70	18.65				
10	256QAM	50	5	18.55	18.63	18.72				
Channel										
Frequency (MHz)										
5	QPSK	1	5	20.70	20.80	20.72			22	
5	QPSK	1	12	20.68	20.82	20.81				
5	QPSK	1	24	20.66	20.84	20.81				
5	QPSK	12	5	20.66	20.77	20.68				
5	QPSK	12	7	20.62	20.88	20.88				
5	QPSK	12	13	20.62	20.75	20.73			22	
5	QPSK	25	5	20.67	20.85	20.82				
5	16QAM	1	5	20.58	20.77	20.75				
5	16QAM	1	12	20.56	20.88	20.72				
5	16QAM	1	24	20.82	20.91	20.70			22	
5	16QAM	12	5	20.55	20.89	20.78				
5	16QAM	12	13	20.69	20.87	20.80				
5	16QAM	12	19	20.69	20.80	20.64				
5	16QAM	25	5	20.55	20.90	20.78				
5	64QAM	1	12	20.60	20.74	20.60			22	
5	64QAM	1	24	20.62	20.78	20.60				
5	64QAM	12	7	20.64	20.84	20.72				
5	64QAM	12	13	20.51	20.86	20.71				
5	64QAM	25	5	20.63	20.83	20.69				
5	256QAM	1	5	18.52	18.72	18.62			20	
5	256QAM	1	12	18.49	18.57	18.63				
5	256QAM	1	24	18.62	18.68	18.64				
5	256QAM	12	5	18.68	18.74	18.74				
5	256QAM	12	7	18.73	18.68	18.64				
5	256QAM	25	5	18.52	18.71	18.66			20	
5	256QAM	25	12	18.75	18.68	18.64				
5	256QAM	25	24	18.68	18.74	18.69				
5	256QAM	25	48	18.68	18.74	18.69				

Band 41_Ant 31												
BW (MHz)	Modulation	RB Sub	RB Offset	Power Low Ch./Freq.	Power Low Mode Ch./Freq.	Power Mode Ch./Freq.	Power High Ch./Freq.	Power High Mode Ch./Freq.	Turn-on time (ms)	MPE (dB)		
Channel												
Frequency (MHz)				39750	40105	40620	41065	41460				
20	QPSK	1	0	23.92	23.27	23.46	23.23	23.22	25	0		
20	QPSK	1	49	23.46	23.37	23.51	23.47	23.39				
20	QPSK	1	99	23.20	22.26	22.35	23.37	23.17				
20	QPSK	50	0	22.59	22.43	22.60	22.41	22.37				
20	QPSK	50	24	22.53	22.53	22.56	22.40	22.24				
20	16QAM	1	0	22.21	22.18	22.36	22.35	22.20	24	1		
20	16QAM	1	49	22.22	22.35	22.41	22.04	22.32				
20	16QAM	1	99	22.46	22.31	22.55	22.43	22.41				
20	16QAM	50	0	21.30	21.42	21.57	21.47	21.23				
20	16QAM	50	24	21.29	21.37	21.61	21.47	21.37	23	2		
20	16QAM	50	50	21.26	21.29	21.63	21.41	21.25				
20	16QAM	100	0	21.34	21.39	21.49	21.51	21.33				
20	64QAM	1	0	21.23	21.20	21.48	21.37	21.26				
20	64QAM	1	49	21.40	21.27	21.65	21.18	21.10	23	2		
20	64QAM	1	99	21.36	21.29	21.35	21.30	21.24				
20	64QAM	50	0	20.28	20.35	20.44	20.39	20.28				
20	64QAM	50	24	20.43	20.35	20.59	20.49	20.41				
20	256QAM	1	0	18.39	18.53	18.53	18.39	18.44	20	5		
20	256QAM	1	49	18.45	18.48	18.60	18.46	18.54				
20	256QAM	1	99	18.42	18.39	18.54	18.44	18.57				
20	256QAM	50	0	18.47	18.48	18.58	18.49	18.48				
20	256QAM	50	24	18.51	18.48	18.58	18.49	18.48	20	5		
20	256QAM	50	50	18.54	18.42	18.52	18.41	18.51				
Channel												
Frequency (MHz)				39755	40105	40620	41065	41515	Turn-on time (ms)	MPE (dB)		
15	QPSK	1	0	23.07	23.05	23.27	23.14	23.08	25	0		
15	QPSK	1	37	23.18	23.12	23.28	23.35	23.08				
15	QPSK	1	74	23.13	23.22	23.18	23.32	23.18				
15	QPSK	36	0	22.19	22.18	22.34	22.22	22.15				
15	QPSK	36	20	22.13	22.15	22.38	22.24	22.18				
15	QPSK	36	36	22.12	22.07	22.18	22.23	22.13				
15	16QAM	1	0	22.09	22.22	22.34	22.29	22.12	24	1		
15	16QAM	1	0	22.08	22.08	22.73	22.07	22.12				
15	16QAM	1	37	22.22	22.19	22.52	22.52	22.34				
15	16QAM	1	74	22.05	22.04	22.15	22.18	22.02				
15	16QAM	36	0	21.05	21.33	21.30	21.33	21.09	23	2		
15	16QAM	36	20	21.08	21.23	21.35	21.35	21.08				
15	16QAM	36	36	21.05	21.04	21.28	21.15	21.04				
15	16QAM	75	0	21.05	21.17	21.32	21.32	21.13	23	2		
15	64QAM	1	0	21.08	21.13	21.03	21.09	21.28				
15	64QAM	1	37	21.12	21.23	21.18	21.29	21.14				
15	64QAM	1	74	21.27	21.17	21.14	21.26	21.07	22	3		
15	64QAM	36	0	20.23	20.13	20.28	20.27	20.11				
15	64QAM	36	20	20.24	20.19	20.32	20.15	20.10				
15	64QAM	36	36	20.10	20.19	20.32	20.15	20.10	20	5		
15	256QAM	1	0	18.10	18.39	18.27	18.20	18.31				
15	256QAM	1	37	18.25	18.24	18.47	18.17	18.24				
15	256QAM	1	74	18.14	18.18	18.37	18.17	18.23				
15	256QAM	36	0	18.28	18.12	18.45	18.21	18.42				
15	256QAM	36	20	18.23	18.22	18.33	18.25	18.40	20	5		
15	256QAM	36	36	18.35	18.21	18.48	18.29	18.24				
15	256QAM	75	0	18.38	18.27	18.37	18.18	18.22				
Channel												
Frequency (MHz)				39750	40160	40620	41065	41460	Turn-on time (ms)	MPE (dB)		
10	QPSK	1	0	23.07	23.19	23.49	23.18	23.06	25	0		
10	QPSK	1	25	23.21	23.16	23.43	23.31	23.39				
10	QPSK	1	49	23.05	23.18	23.43	23.19	23.23				
10	QPSK	25	0	22.57	22.38	22.57	22.41	22.33				
10	QPSK	25	12	22.55	22.29	22.72	22.55	22.32				
10	QPSK	25	25	22.35	22.27	22.35	22.34					
10	16QAM	1	0	22.23	22.29	22.67	22.45	22.35	24	1		
10	16QAM	1	0	22.25	22.18	22.37	22.51	22.11				
10	16QAM	1	25	22.41	22.39	22.66	22.50	22.28				
10	16QAM	1	49	22.49	22.61	22.48	22.28	22.20				
10	16QAM	25	0	21.33	21.43	21.57	21.38	21.32	23	2		
10	16QAM	25	12	21.31	21.21	21.61	21.45	21.42				
10	16QAM	25	25	21.34	21.24	21.43	21.31	21.31				
10	16QAM	50	0	21.22	21.35	21.59	21.40	21.25	23	2		
10	64QAM	1	0	21.11	21.07	21.07	21.08	21.10				
10	64QAM	1	25	21.37	21.16	21.23	21.12	21.31				
10	64QAM	1	49	21.24	21.25	21.23	21.41	21.76	22	3		
10	64QAM	25	0	20.25	20.38	20.51	20.52	20.16				
10	64QAM	25	12	20.33	20.31	20.53	20.54	20.18				
10	64QAM	25	25	20.31	20.29	20.42	20.45	20.38	20	5		
10	64QAM	50	0	20.25	20.29	20.57	20.39	20.35				
10	256QAM	1	0	18.25	18.34	18.35	18.20	18.31				
10	256QAM	1	25	18.29	18.43	18.46	18.24	18.26				
10	256QAM	1	49	18.27	18.09	18.29	18.20	18.22	20	5		
10	256QAM	25	0	18.25	18.18	18.28	18.19	18.41				
10	256QAM	25	12	18.29	18.32	18.39	18.24	18.36				
10	256QAM	25	25	18.34	18.19	18.41	18.24	18.29				
10	256QAM	50	0	18.39	18.13	18.34	18.22	18.31				
Channel												
Frequency (MHz)				39755	40148	40620	41063	41565	Turn-on time (ms)	MPE (dB)		
5	QPSK	1	0	23.07	23.04	23.44	23.18	23.05	25	0		
5	QPSK	1	12	23.25	23.16	23.43	23.39	23.25				
5	QPSK	1	24	23.18	23.01	23.31	23.05	23.15				
5	QPSK	12	0	22.25	22.32	22.51	22.37	22.32				
5	QPSK	12	7	22.35	22.34	22.49	22.42	22.39				
5	QPSK	12	13	22.23	22.26	22.44	22.39	22.33				
5	16QAM	1	0	22.28	22.28	22.60	22.39	22.20	24	1		
5	16QAM	1	0	22.29	22.07	22.53	22.23	22.35				
5	16QAM	1	12	22.24	22.35	22.35	22.07	22.36				
5	16QAM	1	24	22.03	22.22	22.47	22.31	22.32				
5	16QAM	12	0	21.34	21.28	21.53	21.47	21.26	23	2		
5	16QAM	12	7	21.40	21.36	21.49	21.32	21.27				
5	16QAM	12	13	21.37	21.24	21.43	21.31	21.32				
5	16QAM	25	0	21.33	21.36	21.51	21.35	21.44	23	2		
5	64QAM	1	0	21.08	21.18	21.34	21.03	21.07				
5	64QAM	1	12	21.12	21.26	21.26	21.03	21.19				
5	64QAM	1	24	21.61	21.28	21.03	21.62	21.03	22	3		
5	64QAM	12	0	20.32	20.34	20.87	20.42	20.31				
5	64QAM	12	7	20.32	20.25	20.57	20.47	20.48				
5	64QAM	12	13	20.31	20.22	20.57	20.43	20.22	20	5		
5	64QAM	25	0	20.30	20.16	20.39	20.42	20.31				
5	256QAM	1	0	18.25	18.38	18.38	18.20	18.31				
5	256QAM	1	12	18.18	18.30	18.39	18.16	18.34				
5	256QAM	1	24	18.29	18.18	18.42	18.20	18.16	20	5		
5	256QAM	1	25	18.34	18.28	18.38	18.16	18.40				
5	256QAM	12	7	18.23	18.21	18.38	18.21	18.31				
5	256QAM	12	13	18.33	18.33	18.32	18.35	18.22				



Reduced Power Mode for DSI8&9&10

GSM850_Ant 13							GSM850_Ant 13						
Tx Channel		Base Average Power (dBm)		Tune-up Limit		Power-Average Power (dBm)	Tx Channel		Base Average Power (dBm)		Tune-up Limit		Power-Average Power (dBm)
Frequency (MHz)		824	836.4	848.6	860.8	873.0	Frequency (MHz)		824	836.4	848.6	860.8	873.0
GSM 1 Tx slot		32.58	32.82	32.76	34.00	23.58	GSM 1 Tx slot		32.19	32.24	32.13	32.89	23.19
GPRS 1 Tx slot		32.48	32.80	33.83	34.00	23.68	GPRS 1 Tx slot		32.13	32.21	32.17	33.00	23.13
GPRS 2 Tx slot		29.32	29.54	29.37	31.00	23.32	GPRS 2 Tx slot		29.84	29.88	29.83	31.88	23.84
GPRS 3 Tx slot		27.51	27.82	27.71	29.20	23.50	GPRS 3 Tx slot		27.07	28.08	28.12	29.59	23.71
GPRS 4 Tx slot		26.81	26.68	26.83	28.00	23.81	GPRS 4 Tx slot		26.51	26.84	26.89	28.20	23.57
EDGE(GSM850) 1 Tx slot		32.33	32.50	32.35	34.00	23.33	EDGE(GSM850) 1 Tx slot		32.02	32.08	32.12	33.88	23.02
EDGE(GSM850) 2 Tx slot		29.15	29.35	29.23	31.00	23.15	EDGE(GSM850) 2 Tx slot		29.09	29.81	29.70	31.50	23.09
EDGE(GSM850) 3 Tx slot		27.32	27.51	27.38	29.20	23.48	EDGE(GSM850) 3 Tx slot		27.91	27.93	28.05	29.80	23.85
EDGE(GSM850) 4 Tx slot		26.43	26.53	26.40	28.00	23.43	EDGE(GSM850) 4 Tx slot		26.38	26.52	26.54	28.20	23.38
EDGE(GPRS) 1 Tx slot		29.12	28.31	28.28	27.00	17.12	EDGE(GPRS) 1 Tx slot		29.81	29.83	29.86	27.50	18.81
EDGE(GPRS) 2 Tx slot		24.35	24.54	24.47	24.00	18.35	EDGE(GPRS) 2 Tx slot		24.81	24.95	24.93	26.50	18.91
EDGE(GPRS) 3 Tx slot		22.48	22.88	22.62	24.00	18.22	EDGE(GPRS) 3 Tx slot		21.91	21.89	21.94	23.99	17.85
EDGE(GPRS) 4 Tx slot		21.94	21.23	21.16	22.00	18.04	EDGE(GPRS) 4 Tx slot		20.57	20.46	20.81	22.00	17.87

GSM850_Ant 12							GSM850_Ant 12						
Tx Channel		Base Average Power (dBm)		Tune-up Limit		Power-Average Power (dBm)	Tx Channel		Base Average Power (dBm)		Tune-up Limit		Power-Average Power (dBm)
Frequency (MHz)		852	864	876	888	900.0	Frequency (MHz)		852	864	876	888	900.0
GSM 1 Tx slot		32.52	32.78	32.76	33.00	26.52	GSM 1 Tx slot		32.56	32.65	32.52	33.00	23.56
GPRS 1 Tx slot		29.28	29.17	29.15	30.00	20.28	GPRS 1 Tx slot		29.64	29.71	29.65	31.00	20.71
GPRS 2 Tx slot		25.95	26.18	26.01	27.00	19.95	GPRS 2 Tx slot		26.39	26.45	26.39	28.00	20.39
GPRS 3 Tx slot		24.34	24.51	24.38	25.20	19.08	GPRS 3 Tx slot		24.86	24.75	24.71	26.20	19.46
GPRS 4 Tx slot		23.03	23.24	23.08	24.00	20.03	GPRS 4 Tx slot		23.29	23.38	23.34	25.00	20.09
EDGE(GSM850) 1 Tx slot		28.98	29.17	29.05	30.00	18.98	EDGE(GSM850) 1 Tx slot		29.81	29.88	29.83	31.00	20.81
EDGE(GSM850) 2 Tx slot		25.94	26.12	26.00	27.00	19.94	EDGE(GSM850) 2 Tx slot		26.35	26.47	26.38	28.00	20.35
EDGE(GSM850) 3 Tx slot		24.26	24.45	24.30	25.20	20.00	EDGE(GSM850) 3 Tx slot		24.82	24.69	24.60	26.20	20.36
EDGE(GSM850) 4 Tx slot		22.86	23.15	23.02	24.00	18.86	EDGE(GSM850) 4 Tx slot		23.23	23.28	23.20	25.00	20.53
EDGE(GPRS) 1 Tx slot		25.53	25.80	25.75	26.00	18.53	EDGE(GPRS) 1 Tx slot		25.81	25.98	25.96	26.00	18.81
EDGE(GPRS) 2 Tx slot		24.03	24.38	24.27	24.00	18.03	EDGE(GPRS) 2 Tx slot		23.47	23.44	23.88	25.00	17.47
EDGE(GPRS) 3 Tx slot		21.87	22.31	22.17	23.00	17.71	EDGE(GPRS) 3 Tx slot		21.46	21.43	21.87	23.99	17.17
EDGE(GPRS) 4 Tx slot		20.48	20.81	20.67	21.00	17.46	EDGE(GPRS) 4 Tx slot		19.91	19.85	20.22	21.00	16.91

WCDMA V_Ant 13							WCDMA V_Ant 13						
Tx Channel		Base		Tune-up Limit		Power-Average Power (dBm)	Tx Channel		Base		Tune-up Limit		Power-Average Power (dBm)
Frequency (MHz)		940.2	940.8	940.8	940.8	940.8	Frequency (MHz)		940.2	940.8	940.8	940.8	940.8
SCPP Rel 8		17.67	17.76	17.71	18.00	18.54	SCPP Rel 8		17.67	17.76	17.71	18.00	18.54
SCPP Rel 9		17.72	17.73	17.76	18.00	18.58	SCPP Rel 9		17.72	17.73	17.76	18.00	18.58
SCPP Rel 10		18.84	18.75	18.76	19.00	17.85	SCPP Rel 10		18.84	18.75	18.76	19.00	17.85
SCPP Rel 11		18.67	18.73	18.73	18.00	17.88	SCPP Rel 11		18.67	18.73	18.73	18.00	17.88
SCPP Rel 12		15.86	16.29	16.19	17.00	17.36	SCPP Rel 12		15.84	16.42	16.38	18.40	15.84
SCPP Rel 13		18.27	18.23	18.28	17.50	17.33	SCPP Rel 13		18.07	18.00	18.38	18.80	18.37
SCPP Rel 14		18.60	18.58	18.58	18.00	17.73	SCPP Rel 14		18.54	18.40	18.45	19.80	18.44
SCPP Rel 15		18.57	18.78	18.74	18.00	17.42	SCPP Rel 15		18.48	18.61	18.45	19.48	18.48
SCPP Rel 16		18.81	18.13	18.16	17.00	17.28	SCPP Rel 16		18.80	18.91	18.88	18.80	18.87
SCPP Rel 17		18.57	18.76	18.74	18.00	17.73	SCPP Rel 17		18.59	18.81	18.81	18.80	18.82
SCPP Rel 18		18.71	18.13	18.16	17.00	17.28	SCPP Rel 18		18.74	18.42	18.38	18.40	18.41
SCPP Rel 19		18.14	18.14	18.25	17.00	17.27	SCPP Rel 19		18.48	18.40	18.45	19.80	18.41
SCPP Rel 20		18.60	18.72	18.77	18.00	17.85	SCPP Rel 20		18.60	18.91	18.85	18.80	18.87
SCPP Rel 21		14.73	14.72	14.88	16.00	15.87	SCPP Rel 21		14.84	14.82	14.85	16.00	15.89
SCPP Rel 22		15.88	15.74	15.87	17.00	16.81	SCPP Rel 22		15.84	15.82	15.84	16.00	15.89
SCPP Rel 23		14.88	14.80	14.82	16.00	15.85	SCPP Rel 23		14.88	14.85	14.88	16.00	15.83
SCPP Rel 24		18.77	18.74	18.88	18.00	17.86	SCPP Rel 24		18.76	18.72	18.80	18.00	18.82
SCPP Rel 25		18.18	18.29	18.26	16.00	16.32	SCPP Rel 25		18.18	18.20	18.20	16.00	16.32

WCDMA V_Ant 12							WCDMA V_Ant 12						
Tx Channel		Base		Tune-up Limit		Power-Average Power (dBm)	Tx Channel		Base		Tune-up Limit		Power-Average Power (dBm)
Frequency (MHz)		940.2	940.8	940.8	940.8	940.8	Frequency (MHz)		940.2	940.8	940.8	940.8	940.8
SCPP Rel 8		17.67	17.76	17.71	18.00	18.54	SCPP Rel 8		17.67	17.76	17.71	18.00	18.54
SCPP Rel 9		17.72	17.73	17.76	18.00	18.58	SCPP Rel 9		17.72	17.73	17.76	18.00	18.58
SCPP Rel 10		18.84	18.75	18.76	19.00	17.85	SCPP Rel 10		18.84	18.75	18.76	19.00	17.85
SCPP Rel 11		18.67	18.73	18.73	18.00	17.88	SCPP Rel 11		18.67	18.73	18.73	18.00	17.88
SCPP Rel 12		15.86	16.29	16.19	17.00	17.36	SCPP Rel 12		15.86	16.29	16.19	17.00	17.36
SCPP Rel 13		18.27	18.23	18.28	17.50	17.33	SCPP Rel 13		18.27	18.23	18.28	17.50	17.33
SCPP Rel 14		18.60	18.58	18.58	18.00	17.73	SCPP Rel 14		18.60	18.58	18.58	18.00	17.73
SCPP Rel 15		18.57	18.78	18.74	18.00	17.42	SCPP Rel 15		18.57	18.78	18.74	18.00	17.42
SCPP Rel 16		18.81	18.13	18.16	17.00	17.28	SCPP Rel 16		18.81	18.13	18.16	17.00	17.28
SCPP Rel 17		18.14	18.14	18.25	17.00	17.27	SCPP Rel 17		18.14	18.14	18.25	17.00	17.27
SCPP Rel 18		18.60	18.72	18.77	18.00	17.85	SCPP Rel 18		18.60	18.72	18.77	18.00	17.85
SCPP Rel 19		14.73	14.72	14.88	16.00	15.87	SCPP Rel 19		14.73	14.72	14.88	16.00	15.87
SCPP Rel 20		15.88	15.74	15.87	17.00	16.81	SCPP Rel 20		15.88	15.74	15.87	17.00	16.81
SCPP Rel 21		14.88	14.80	14.82	16.00	15.85	SCPP Rel 21		14.88	14.80	14.82	16.00	15.85
SCPP Rel 22		18.77	18.74	18.88	18.00	17.86	SCPP Rel 22		18.77	18.74	18.88	18.00	17.86
SCPP Rel 23		18.18	18.29	18.26	16.00	16.32	SCPP Rel 23		18.18	18.29	18.26	16.00	16.32

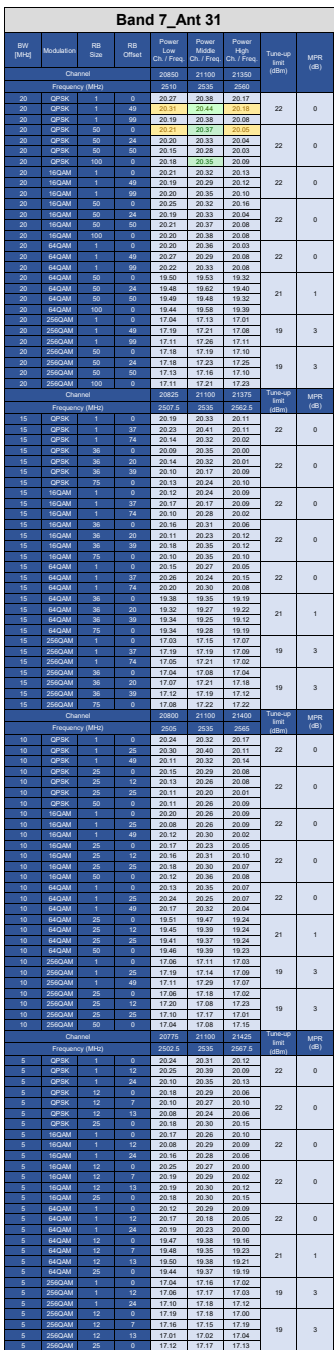
WCDMA V_Ant 11							WCDMA V_Ant 11						
Tx Channel		Base		Tune-up Limit		Power-Average Power (dBm)	Tx Channel		Base		Tune-up Limit		Power-Average Power (dBm)
Frequency (MHz)		940.2	940.8	940.8	940.8	940.8	Frequency (MHz)		940.2	940.8	940.8	940.8	940.8
SCPP Rel 8		17.67	17.76	17.71	18.00	18.54	SCPP Rel 8		17.67	17.76	17.71	18.00	18.54
SCPP Rel 9		17.72	17.73	17.76	18.00	18.58	SCPP Rel 9		17.72	17.73	17.76	18.00	18.58
SCPP Rel 10		18.84	18.75	18.76	19.00	17.85	SCPP Rel 10		18.84	18.75	18.76	19.00	17.85
SCPP Rel 11		18.67	18.73	18.73	18.00	17.88	SCPP Rel 11		18.67	18.73	18.73	18.00	17.88
SCPP Rel 12		15.86	16.29	16.19	17.00	17.36	SCPP Rel 12		15.86	16.29	16.19	17.00	17.36
SCPP Rel 13		18.27	18.23	18.28	17.50	17.33	SCPP Rel 13		18.27	18.23	18.28	17.50	17.33
SCPP Rel 14		18.60	18.58	18.58	18.00	17.73	SCPP Rel 14		18.60	18.58	18.58	18.00	17.73
SCPP Rel 15		18.57	18.78	18.74	18.00	17.42	SCPP Rel 15		18.57	18.78	18.74	18.00	17.42
SCPP Rel 16		18.81	18.13	18.16	17.00	17.28	SCPP Rel 16		18.81	18.13	18.16	17.00	17.28
SCPP Rel 17		18.14	18.14	18.25	17.00	17.27	SCPP Rel 17		18.14	18.14	18.25	17.00	17.27
SCPP Rel 18		18.60	18.72	18.77	18.00	17.85	SCPP Rel 18		18.60	18.72	18.77	18.00	17.85
SCPP Rel 19		14.73	14.72	14.88	16.00	15.87	SCPP Rel 19		14.73	14.72	14.88	16.00	15.87
SCPP Rel 20		15.88	15.74	15.87	17.00	16.81	SCPP Rel 20		15.88	15.74	15.87	17.00	16.81
SCPP Rel 21		14.88	14.80	14.82	16.00	15.85	SCPP Rel 21		14.88	14.80	14.82	16.00	15.85
SCPP Rel 22		18.77	18.74	18.88	18.00	17.86	SCPP Rel 22		18.77	18.74	18.88	18.00	17.86
SCPP Rel 23		18.18	18.29	18.26	16.00	16.32	SCPP Rel 23		18.18	18.29	18.26	16.00	16.32



Band 2_Ant 13														
RF [MHz]	Modulation	RB Sub	RB Offset	Power Low Ch / Freq	Power Mode Ch / Freq	Power High Ch / Freq	Turn-on Time (s)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.14	18.28	18.17			19.5	0				
20	QPSK	1	48	18.07	18.41	18.31								
20	QPSK	5	0	18.14	18.28	18.15								
20	QPSK	50	0	18.20	18.32	18.20								
20	QPSK	50	24	18.07	18.20	18.10								
20	QPSK	50	24	18.02	18.22	18.16			19.5	0				
20	QPSK	100	0	18.18	18.30	18.20								
20	HQAM	1	0	18.15	18.21	18.17								
20	HQAM	1	49	18.04	18.28	18.24								
20	HQAM	1	99	18.14	18.23	18.06								
20	HQAM	50	0	18.15	18.32	18.06			19.5	0				
20	HQAM	50	24	18.15	18.24	18.07								
20	HQAM	50	50	18.17	18.20	18.11								
20	HQAM	100	0	18.17	18.20	18.09								
20	HQAM	100	0	18.08	18.24	18.11								
20	HQAM	1	49	18.21	18.27	18.24			19.5	0				
20	HQAM	1	99	18.12	18.26	18.11								
20	HQAM	50	24	18.04	18.30	18.13								
20	HQAM	50	50	18.20	18.21	18.11								
20	HQAM	100	0	18.21	18.22	18.13								
20	256QAM	1	0	17.90	17.92	17.94			19	0.5				
20	256QAM	1	49	18.05	18.15	18.15								
20	256QAM	50	0	17.80	18.00	18.02								
20	256QAM	50	0	17.87	17.93	17.90								
20	256QAM	50	24	17.77	17.87	17.88								
20	256QAM	50	50	17.80	17.85	17.86			19	0.5				
20	256QAM	100	0	17.85	17.87	17.87								
20	256QAM	100	0	17.85	17.89	17.87								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.18	18.24	18.20			19.5	0				
15	QPSK	1	37	18.18	18.26	18.16								
15	QPSK	1	74	18.12	18.18	18.12								
15	QPSK	36	0	18.13	18.18	18.05								
15	QPSK	36	20	18.05	18.32	18.12								
15	QPSK	36	20	18.08	18.24	18.14			19.5	0				
15	QPSK	75	0	18.02	18.27	18.19								
15	HQAM	1	0	18.03	18.31	18.09								
15	HQAM	1	37	18.09	18.15	18.02								
15	HQAM	1	74	18.18	18.21	18.17								
15	HQAM	36	0	18.21	18.18	18.19			19.5	0				
15	HQAM	36	20	18.10	18.19	18.06								
15	HQAM	36	20	18.21	18.31	18.09								
15	HQAM	75	0	18.08	18.20	18.19								
15	HQAM	75	0	18.12	18.23	18.22								
15	HQAM	1	37	18.17	18.17	18.17			19.5	0				
15	HQAM	1	74	18.20	18.20	18.16								
15	HQAM	36	0	18.08	18.23	18.11								
15	HQAM	36	20	18.18	18.26	18.14								
15	HQAM	36	20	18.09	18.30	18.12								
15	256QAM	1	0	17.80	17.86	17.86			19	0.5				
15	256QAM	1	37	17.97	18.12	18.14								
15	256QAM	1	74	17.80	18.02	18.05								
15	256QAM	36	0	17.83	17.85	17.87								
15	256QAM	36	20	17.87	17.85	17.83								
15	256QAM	75	0	17.85	17.87	17.89			19	0.5				
15	256QAM	75	0	17.85	17.89	17.86								
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.18	18.32	18.10			19.5	0				
10	QPSK	1	25	18.21	18.24	18.25								
10	QPSK	1	12	18.21	18.32	18.18								
10	QPSK	26	0	18.18	18.22	18.22								
10	QPSK	26	12	18.19	18.27	18.21								
10	QPSK	26	12	18.12	18.28	18.12			19.5	0				
10	QPSK	50	0	18.04	18.24	18.10								
10	HQAM	1	0	18.02	18.18	18.08								
10	HQAM	1	49	18.07	18.19	18.21								
10	HQAM	1	49	18.10	18.27	18.11								
10	HQAM	26	0	18.21	18.33	18.24			19.5	0				
10	HQAM	26	12	18.14	18.17	18.04								
10	HQAM	26	26	18.21	18.30	18.12								
10	HQAM	50	0	18.12	18.21	18.06								
10	HQAM	50	0	18.18	18.26	18.07								
10	HQAM	1	25	18.07	18.19	18.21			19.5	0				
10	HQAM	1	49	18.17	18.26	18.12								
10	HQAM	26	0	18.08	18.32	18.21								
10	HQAM	26	12	18.15	18.17	18.23								
10	HQAM	26	12	18.18	18.17	18.23								
10	256QAM	1	0	17.83	17.82	17.84			19	0.5				
10	256QAM	1	25	18.03	18.13	18.16								
10	256QAM	1	49	17.80	17.82	17.84								
10	256QAM	26	0	17.85	17.89	17.90								
10	256QAM	26	12	17.82	17.85	17.86								
10	256QAM	50	0	17.85	17.87	17.89			19	0.5				
10	256QAM	50	0	17.85	17.89	17.86								
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.17	18.29	18.13			19.5	0				
5	QPSK	1	12	18.07	18.24	18.09								
5	QPSK	1	12	18.07	18.25	18.14								
5	QPSK	12	0	18.02	18.20	18.22								
5	QPSK	12	7	18.03	18.29	18.17								
5	QPSK	12	7	18.08	18.32	18.20			19.5	0				
5	QPSK	26	0	18.10	18.26	18.24								
5	HQAM	1	0	18.04	18.30	18.06								
5	HQAM	1	12	18.04	18.16	18.06								
5	HQAM	1	24	18.05	18.22	18.23								
5	HQAM	12	0	18.17	18.28	18.11			19.5	0				
5	HQAM	12	7	18.03	18.23	18.08								
5	HQAM	12	13	18.12	18.17	18.21								
5	HQAM	26	0	18.13	18.26	18.12								
5	HQAM	26	0	18.17	18.27	18.18								
5	HQAM	1	12	18.07	18.19	18.21			19.5	0				
5	HQAM	1	24	18.14	18.25	18.07								
5	HQAM	12	0	18.02	18.20	18.20								
5	HQAM	12	7	18.05	18.27	18.08								
5	HQAM	12	13	18.21	18.28	18.23								
5	HQAM	26	0	18.16	18.16	18.16			19.5	0				
5	HQAM	26	7	17.86	17.86	17.84								
5	256QAM	1	12	17.86	17.87	17.86								
5	256QAM	1	24	17.87	18.02	18.03								
5	256QAM	12	0	17.84	17.89	17.84								
5	256QAM	12	7	17.71	17.77	17.86			19	0.5				
5	256QAM	12	13	17.80	17.85	17.87								
5	256QAM	26	0	17.84	17.87	17.86								
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.15	18.30	18.08			19.5	0				
3	QPSK	1	8	18.19	18.30	18.20								
3	QPSK	1	14	18.05	18.20	18.20								
3	QPSK	8	0	18.07	18.24	18.24								
3	QPSK	8	4	18.17	18.27	18.15								
3	QPSK	8	7	18.16	18.19	18.09			19.5	0				
3	QPSK	8	14	18.15	18.23	18.23								
3	HQAM	1	0	18.08	18.38	18.15								
3	HQAM	1	8	18.11	18.35	18.13								
3	HQAM	1	14	18.02	18.30	18.08								
3	HQAM	8	0	18.19	18.28	18.08			19.5	0				
3	HQAM	8	4	18.17	18.26	18.25								
3	HQAM	8	7	18.18	18.19	18.23								
3	HQAM	16	0	18.07	18.32	18.22								
3	HQAM	16	0	18.06	18.22	18.09								
3	HQAM	1	0	18.03	18.38	18.18			19.5	0				
3	HQAM	1	14	18.03	18.20	18.15								
3	HQAM	8	0	18.17	18.29	18.21								
3	HQAM	8	7	18.10	18.19	18.08								
3	HQAM	8	7	18.10	18.19	18.08								
3	256QAM	1	8	18.03	18.15	18.17			19	0.5				
3	256QAM	1	14	17.93	17.93	18.01								
3	256QAM	8	0	18.07	18.24	18.24								
3	256QAM	8	4	17.73	17.87	17.81								
3	256QAM	8	7	17.91	17.87	17.77								
3	256QAM	16	0	17.88	17.88	17.80			19	0.5				
3	256QAM	16	0	17.88	17.91	17.86								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	18.18	18.22	18.18			19.5	0				
1.4	QPSK	1	0	18.11	18.32	18.23								
1.4	QPSK	1	3	18.06	18.29	18.21								
1.4	QPSK	3	0	18.08	18.33	18.25								
1.4	QPSK	3	3	18.11	18.24	18.17								
1.4	HQAM	1	0	18.15	18.35	18.13			19.5	0				
1.4	HQAM	1	3	18.16	18.20	18.21								
1.4	HQAM	3	0	18.17	18.27	18.07								
1.4	HQAM	3	1	18.18	18.23	18.19								
1.4	HQAM	3	1	18.19	18.23	18.23								
1.4	HQAM	6	0	18.06	18.32	18.13			19.5	0				
1.4	HQAM	1	0	18.14	18.17	18.04								

Band 5_Ant13										
RF (MHz)	Modulation	RB Size	RB Offset	Power Lb Ch / Freq	Power Lb Ch / Freq	Power Lb Ch / Freq	Turn-on time (s)	MPE (dB)		
Channel										
				26450	26525	26585				
10	QPSK	1	0	8.97	8.98	9.04				
10	QPSK	1	25	23.71	23.75	23.81			25	0
10	QPSK	1	49	23.52	23.58	23.67				
10	QPSK	25	0	23.68	23.70	23.75				
10	QPSK	25	12	22.69	22.72	22.65			24	1
10	QPSK	25	25	22.48	22.50	22.49				
10	HQAM	1	0	22.70	22.72	22.78				
10	HQAM	1	0	22.84	22.88	22.89				
10	HQAM	1	25	22.96	22.98	22.76			24	1
10	HQAM	1	0	22.70	22.72	22.78				
10	HQAM	25	0	21.74	21.77	21.71				
10	HQAM	25	12	21.85	21.88	21.87			23	2
10	HQAM	25	0	21.64	21.70	21.75				
10	HQAM	50	0	21.77	21.83	21.75				
10	HQAM	1	0	22.06	22.03	22.18				
10	HQAM	1	0	21.68	21.67	21.64			23	2
10	HQAM	1	49	22.02	22.00	21.93				
10	HQAM	25	0	20.68	20.73	20.75				
10	HQAM	25	12	20.68	20.67	20.65			22	3
10	HQAM	25	25	20.87	20.78	20.76				
10	HQAM	50	0	20.71	20.70	20.65				
10	HQAM	50	0	21.09	21.07	21.09			19	0
10	256QAM	1	25	19.19	19.17	19.19			20	
10	256QAM	1	49	19.04	19.14	19.04				
10	256QAM	1	0	21.47	21.50	21.53				
10	256QAM	25	12	19.15	19.13	19.15			20	
10	256QAM	25	25	19.10	19.05	19.10				
10	256QAM	50	0	19.07	19.07	19.07				
Channel										
				26425	26525	26585	Turn-on time (s)	MPE (dB)		
10	QPSK	1	0	8.95	8.98	9.05				
10	QPSK	1	25	23.67	23.68	23.69			25	0
10	QPSK	1	24	23.44	23.48	23.49				
10	QPSK	12	0	22.68	22.70	22.71				
10	QPSK	12	7	22.76	22.77	22.72			24	1
10	QPSK	12	13	22.69	22.68	22.71				
10	HQAM	1	0	22.82	22.83	22.83				
10	HQAM	1	0	22.81	22.83	22.83				
10	HQAM	1	12	22.88	22.90	22.73			24	1
10	HQAM	1	0	22.82	22.83	22.83				
10	HQAM	12	0	21.70	21.71	21.63				
10	HQAM	12	7	21.76	21.70	21.64			23	2
10	HQAM	12	13	21.68	21.67	21.67				
10	HQAM	25	0	21.68	21.61	21.67				
10	HQAM	1	0	21.97	21.81	21.81			23	2
10	HQAM	1	0	21.68	21.68	21.68				
10	HQAM	1	24	22.08	21.94	21.68				
10	HQAM	12	0	20.62	20.68	20.68				
10	HQAM	12	7	20.62	20.62	20.62				
10	HQAM	12	13	20.82	20.76	20.75			22	3
10	HQAM	25	0	20.84		20.84				
10	HQAM	25	12	20.82		20.82				
10	HQAM	25	25	20.87		20.87				
10	HQAM	50	0	20.71		20.71				
10	HQAM	50	0	21.09		21.09				
10	256QAM	1	12	19.06	19.08	19.04			20	5
10	256QAM	1	24	19.06	19.06	19.06				
10	256QAM	1	0	21.47	21.50	21.53				
10	256QAM	25	12	19.15	19.13	19.15			20	5
10	256QAM	25	25	19.10	19.10	19.10				
10	256QAM	50	0	19.07	19.07	19.07				
Channel										
				26419	26525	26585	Turn-on time (s)	MPE (dB)		
10	QPSK	1	0	8.95	8.98	9.05				
10	QPSK	1	8	23.68	23.69	23.69			25	0
10	QPSK	1	14	23.43	23.48	23.52				
10	QPSK	12	0	22.67	22.69	22.70				
10	QPSK	8	4	22.77	22.72	22.72			24	1
10	HQAM	1	7	22.68	22.67	22.72				
10	HQAM	1	14	22.80	22.80	22.80				
10	HQAM	1	8	22.88	22.93	22.71			24	1
10	HQAM	1	14	22.84	22.84	22.84				
10	HQAM	8	0	21.60	21.70	21.62				
10	HQAM	8	4	21.76	21.70	21.81			23	2
10	HQAM	12	8	21.62	21.69	21.68				
10	HQAM	15	0	21.74	21.62	21.70				
10	HQAM	1	0	20.62	21.73	22.12			23	2
10	HQAM	12	8	21.63	21.67	21.65				
10	HQAM	1	14	22.09	21.63	21.73				
10	HQAM	8	0	20.62	20.68	20.68				
10	HQAM	8	4	20.80	20.82	20.82				
10	HQAM	8	7	20.79	20.72	20.78			22	3
10	HQAM	15	0	20.81	20.81	20.78				
10	HQAM	1	0	19.98	19.97	19.94				
10	256QAM	1	8	19.13	19.14	19.20			20	
10	256QAM	1	14	19.07	19.06	19.06				
10	256QAM	1	0	21.47	21.50	21.53				
10	256QAM	8	4	19.18	19.08	19.11			20	5
10	256QAM	8	0	19.09	19.05	19.05				
10	256QAM	15	0	19.09	19.07	19.04				
Channel										
				26407	26525	26585	Turn-on time (s)	MPE (dB)		
1.4	QPSK	1	0	8.95	8.98	9.05				
1.4	QPSK	1	0	23.59	23.72	23.58			25	0
1.4	QPSK	1	3	23.63	23.68	23.58				
1.4	QPSK	1	5	23.45	23.50	23.58				
1.4	QPSK	1	23	23.55	23.58	23.54				
1.4	QPSK	3	1	23.56	23.63	23.57				
1.4	QPSK	3	3	23.35	23.47	23.52				
1.4	QPSK	3	0	22.68	22.61	22.58			24	1
1.4	HQAM	1	0	22.82	22.84	22.87				
1.4	HQAM	1	3	22.95	22.96	22.97				
1.4	HQAM	1	5	23.30	22.88	23.03				
1.4	HQAM	3	1	22.74	22.84	22.86			24	1
1.4	HQAM	3	1	22.85	22.87	22.89				
1.4	HQAM	3	0	23.34	22.78	22.90				
1.4	HQAM	6	0	21.76	21.60	21.70			23	2
1.4	HQAM	1	0	20.62	21.82	22.10				
1.4	HQAM	1	0	21.63	21.67	21.65				
1.4	HQAM	1	6	22.08	21.62	21.62			23	2
1.4	HQAM	3	0	21.93	21.73	22.01				
1.4	HQAM	3	1	21.97	21.90	21.98				
1.4	HQAM	6	0	20.69	20.81	20.75			22	3
1.4	HQAM	6	0	20.83	20.87	20.83				
1.4	256QAM	1	3	19.15	19.08	19.20				
1.4	256QAM	1	5	19.09	19.02	19.08			20	5
1.4	256QAM	1	0	21.47	21.50	21.53				
1.4	256QAM	3	1	19.09	19.18	19.04				
1.4	256QAM	3	1	19.09	19.09	19.05				
1.4	256QAM	3	0	19.08	19.11	19.06			20	5
1.4	256QAM	3	0	19.11	19.06	19.09				

Band 7_Ant 13											
BW [MHz]	Modulation	RB Size	RB Offset	Power [Ch / Power]	Power [Ch / Power]	Power [Ch / Power]	Turnup [dB]	MA [dB]	MA [dB]	MA [dB]	MA [dB]
Channel				20650	21100	21550					
Frequency (MHz)				20650	21100	21550					
10	QPSK	1	0	14.41	14.41	14.41					
10	QPSK	1	49	14.53	14.57	14.55					
10	QPSK	1	99	14.38	14.48	14.41		16			
10	QPSK	50	0	14.40	14.40	14.40					
10	QPSK	50	24	14.41	14.47	14.45					
10	QPSK	50	50	14.38	14.37	14.34		16			
10	16QAM	1	0	14.37	14.44	14.37					
10	16QAM	1	49	14.37	14.42	14.32					
10	16QAM	50	0	14.45	14.48	14.37					
10	16QAM	50	24	14.35	14.29	14.44					
10	16QAM	50	50	14.44	14.43	14.39					
10	16QAM	100	0	14.36	14.40	14.40					
10	16QAM	1	0	14.41	14.46	14.36					
10	16QAM	1	49	14.43	14.39	14.41		16			
10	16QAM	1	99	14.36	14.41	14.44					
10	16QAM	50	0	14.39	14.41	14.41					
10	16QAM	50	24	14.43	14.43	14.41					
10	16QAM	50	50	14.44	14.41	14.42					
10	16QAM	100	0	14.40	14.38	14.41					
10	16QAM	1	0	14.38	14.44	14.38					
10	256QAM	1	49	14.38	14.46	14.37					
10	256QAM	1	99	14.38	14.41	14.43					
10	256QAM	50	0	14.40	14.40	14.40					
10	256QAM	50	24	14.37	14.44	14.42					
10	256QAM	50	50	14.37	14.42	14.38					
10	256QAM	100	0	14.40	14.44	14.38					
Channel				20675	21100	21575	Turnup [dB]	MA [dB]	MA [dB]	MA [dB]	
Frequency (MHz)				20675	21100	21575					
16	QPSK	1	0	14.37	14.43	14.38					
16	QPSK	1	37	14.48	14.05	14.43					
16	QPSK	1	74	14.32	14.36	14.38					
16	QPSK	36	0	14.43	14.40	14.41					
16	QPSK	36	20	14.34	14.40	14.32					
16	QPSK	36	36	14.39	14.29	14.40					
16	QPSK	1	0	14.33	14.31	14.40					
16	16QAM	1	0	14.33	14.38	14.28					
16	16QAM	1	37	14.35	14.28	14.37					
16	16QAM	1	74	14.43	14.38	14.40					
16	16QAM	36	0	14.35	14.47	14.30					
16	16QAM	36	20	14.28	14.24	14.44					
16	16QAM	36	36	14.39	14.30	14.40					
16	16QAM	75	0	14.33	14.40	14.41					
16	16QAM	1	0	14.33	14.40	14.27					
16	16QAM	1	37	14.32	14.31	14.37					
16	16QAM	1	74	14.33	14.34	14.40					
16	16QAM	36	0	14.32	14.37	14.40					
16	16QAM	36	20	14.36	14.35	14.34					
16	16QAM	36	36	14.36	14.29	14.34					
16	16QAM	75	0	14.37	14.27	14.32					
16	16QAM	1	0	14.38	14.44	14.38					
16	256QAM	1	37	14.38	14.46	14.37					
16	256QAM	1	74	14.38	14.41	14.43					
16	256QAM	50	0	14.40	14.40	14.40					
16	256QAM	50	24	14.37	14.44	14.42					
16	256QAM	50	50	14.37	14.42	14.38					
16	256QAM	100	0	14.40	14.44	14.38					
Channel				20690	21100	21600	Turnup [dB]	MA [dB]	MA [dB]	MA [dB]	
Frequency (MHz)				20690	21100	21600					
10	QPSK	1	0	14.31	14.43	14.36					
10	QPSK	1	20	14.49	14.05	14.45					
10	QPSK	1	49	14.29	14.43	14.38					
10	QPSK	36	0	14.43	14.40	14.41					
10	QPSK	36	12	14.38	14.45	14.41					
10	QPSK	25	20	14.38	14.20	14.32					
10	QPSK	50	0	14.38	14.38	14.38					
10	16QAM	1	0	14.38	14.36	14.29					
10	16QAM	1	20	14.38	14.30	14.37					
10	16QAM	1	49	14.31	14.31	14.31					
10	16QAM	25	12	14.31	14.33	14.39					
10	16QAM	50	0	14.31	14.42	14.38					
10	16QAM	1	0	14.42	14.39	14.26					
10	16QAM	1	20	14.36	14.34	14.39					
10	16QAM	1	49	14.31	14.35	14.34					
10	16QAM	25	0	14.32	14.37	14.34					
10	16QAM	25	12	14.30	14.27	14.35					
10	16QAM	25	20	14.39	14.31	14.35					
10	16QAM	50	0	14.36	14.32	14.33					
10	16QAM	1	0	14.34	14.38	14.40					
10	256QAM	1	20	14.38	14.46	14.37					
10	256QAM	1	49	14.38	14.41	14.43					
10	256QAM	25	0	14.34	14.41	14.40					
10	256QAM	25	12	14.37	14.44	14.42					
10	256QAM	25	20	14.37	14.42	14.38					
10	256QAM	50	0	14.40	14.44	14.38					
Channel				20775	21100	21625	Turnup [dB]	MA [dB]	MA [dB]	MA [dB]	
Frequency (MHz)				20775	21100	21625					
8	QPSK	1	0	14.37	14.43	14.41					
8	QPSK	1	12	14.48	14.08	14.44					
8	QPSK	1	24	14.29	14.41	14.38					
8	QPSK	12	0	14.36	14.42	14.37					
8	QPSK	12	12	14.39	14.39	14.38					
8	QPSK	12	18	14.29	14.39	14.28					
8	16QAM	1	0	14.31	14.37	14.28					
8	16QAM	1	12	14.31	14.36	14.37		16			
8	16QAM	1	24	14.33	14.31	14.38					
8	16QAM	12	0	14.40	14.42	14.27					
8	16QAM	12	7	14.31	14.36	14.35					
8	16QAM	12	14	14.38	14.40	14.35					
8	16QAM	25	0	14.30	14.35	14.35					
8	16QAM	1	0	14.42	14.31	14.27					
8	16QAM	1	14	14.38	14.34	14.33					
8	16QAM	1	24	14.29	14.36	14.35					
8	16QAM	12	5	14.29	14.31	14.31					
8	16QAM	12	7	14.33	14.27	14.36					
8	16QAM	12	13	14.37	14.33	14.38					
8	16QAM	25	0	14.38	14.30	14.32					
8	256QAM	1	12	14.38	14.38	14.40					
8	256QAM	1	12	14.38	14.48	14.37					
8	256QAM	25	0	14.38	14.41	14.43					
8	256QAM	12	0	14.34	14.41	14.40					
8	256QAM	12	7	14.37	14.44	14.42					
8	256QAM	12	13	14.37	14.42	14.38					
8	256QAM	25	0	14.40	14.44	14.38					



Band 7_Ant 11										
RF [MHz]	Modulation	RB Size	RF Offset	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Turn-up time [min]	MFR [dB]	
Channel				20850	21000	21150	21300			
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	16.98	17.11	16.99		18.5	0	
20	QPSK	1	20	17.02	17.15	16.99				
20	QPSK	1	90	17.02	17.14	16.98				
20	QPSK	50	0	16.98	17.02	16.98		18.5	0	
20	QPSK	50	20	16.98	17.01	16.98				
20	QPSK	50	90	16.98	17.00	16.98				
20	HQAM	1	0	17.03	17.09	16.92				
20	HQAM	1	40	17.00	17.10	16.99		18.5	0	
20	HQAM	1	200	17.00	17.12	16.98				
20	HQAM	50	0	17.03	17.08	16.92		18.5	0	
20	HQAM	50	20	17.02	17.09	16.92				
20	HQAM	500	0	17.07	17.10	16.96		18.5	0	
20	HQAM	1	0	17.04	17.11	16.98				
20	HQAM	1	20	17.04	17.13	16.98		18.5	0	
20	HQAM	1	90	17.07	17.10	17.00				
20	HQAM	50	0	17.06	17.12	16.99		18.5	0	
20	HQAM	50	20	17.06	17.13	16.99				
20	HQAM	50	90	17.08	17.07	17.01		18.5	0	
20	HQAM	1000	0	17.03	17.14	16.97		18.5	0	
20	HQAM	1	0	17.06	17.07	16.93				
20	HQAM	1	40	17.08	17.14	16.97		18.5	0	
20	HQAM	1	90	17.05	17.12	16.94				
20	HQAM	50	0	17.06	17.13	16.99		18.5	0	
20	HQAM	50	20	17.06	17.16	17.01		18.5	0	
20	HQAM	50	90	17.09	17.16	17.01		18.5	0	
20	HQAM	1000	0	17.03	17.16	17.01		18.5	0	
Channel				20825	21000	21175	21350	Turn-up time [min]	MFR [dB]	
Frequency (MHz)				2517.5	2535	2562.5				
15	QPSK	1	0	16.98	17.03	16.98		18.5	0	
15	QPSK	1	30	17.07	17.13	16.91				
15	QPSK	1	74	16.96	17.05	16.89				
15	QPSK	36	0	16.96	17.03	16.89		18.5	0	
15	QPSK	36	20	16.95	17.04	16.88				
15	QPSK	36	30	17.01	17.16	16.93				
15	QPSK	36	74	16.99	17.09	16.87				
15	HQAM	1	0	17.02	17.10	16.93				
15	HQAM	1	37	16.98	17.04	16.97		18.5	0	
15	HQAM	1	74	16.97	17.04	16.93				
15	HQAM	36	0	17.02	17.09	16.93		18.5	0	
15	HQAM	36	0	17.02	16.98	16.93				
15	HQAM	36	20	16.97	17.05	16.86				
15	HQAM	36	30	16.97	17.03	16.93		18.5	0	
15	HQAM	36	74	16.97	17.03	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15	HQAM	75	0	17.00	17.04	16.92				
15	HQAM	1	0	17.01	17.02	16.85		18.5	0	
15	HQAM	1	20	17.01	17.03	16.85				
15	HQAM	1	74	17.03	17.08	16.90		18.5	0	
15	HQAM	36	0	16.99	17.06	16.92				
15	HQAM	36	20	16.99	17.03	16.92		18.5	0	
15	HQAM	36	30	16.93	17.07	16.85				
15	HQAM	36	74	17.05	17.03	16.99		18.5	0	
15	HQAM	36	90	16.97	17.01	16.93				
15										

Band 12_Ant 13										
RF [MHz]	Modulation	RB Size	RF Offset	Power [dBm] Ch. 1 (F)	Power [dBm] Ch. 2 (F)	Power [dBm] Ch. 3 (F)	Turn-on time (dBm)	MFR (dB)		
Channel										
	Frequency (MHz)			23605	23605	23710				
10	OFDM	1	0	23.02	23.17	23.05		24.5	0	
10	OFDM	1	49	23.03	23.20	23.07				
10	OFDM	25	0	22.25	22.40	22.25		23.5	1	
10	OFDM	25	49	22.13	22.27	22.13				
10	OFDM	25	25	22.05	22.24	22.05				
10	OFDM	25	75	22.17	22.31	22.17				
10	OFDM	1	0	22.48	22.35	22.48				
10	OFDM	1	25	22.62	22.63	22.68		23.5	1	
10	OFDM	1	49	22.62	22.63	22.68				
10	OFDM	25	0	21.90	21.98	21.93		22.5	2	
10	OFDM	25	49	21.10	21.06	21.13				
10	OFDM	50	0	21.23	21.17	21.31				
10	OFDM	1	0	21.96	21.87	21.47		22.5	2	
10	OFDM	1	49	21.96	21.87	21.47				
10	OFDM	1	49	21.16	21.01	21.64				
10	OFDM	25	0	20.93	20.14	20.11		21.5	3	
10	OFDM	25	49	20.93	20.14	20.11				
10	OFDM	25	25	20.15	20.14	20.16				
10	OFDM	50	0	20.16	20.24	20.18				
10	256QAM	1	0	19.78	18.87	18.66		19.5	5	
10	256QAM	1	25	18.82	18.84	18.85				
10	256QAM	1	49	18.52	18.66	18.63				
10	256QAM	1	75	18.52	18.66	18.63				
10	256QAM	25	0	18.56	18.58	18.60		19.5	5	
10	256QAM	25	25	18.51	18.58	18.61				
10	256QAM	25	75	18.51	18.58	18.61				
Channel										
	Frequency (MHz)			23635	23635	23710	Turn-on time (dBm)	MFR (dB)		
5	OFDM	1	0	20.15	20.75	20.15		24.5	0	
5	OFDM	1	49	20.07	20.08	20.09				
5	OFDM	1	24	23.15	23.08	23.08				
5	OFDM	12	0	22.29	22.29	22.29		23.5	1	
5	OFDM	12	24	22.29	22.29	22.29				
5	OFDM	12	13	22.18	22.18	22.18				
5	OFDM	12	37	22.18	22.18	22.18				
5	OFDM	1	0	22.31	22.40	22.41		23.5	1	
5	OFDM	1	12	22.65	22.62	22.61				
5	OFDM	1	24	22.65	22.68	22.68		22.5	2	
5	OFDM	12	0	20.96	21.02	21.01				
5	OFDM	12	37	21.16	21.10	21.05		22.5	2	
5	OFDM	25	0	21.12	21.14	21.21				
5	OFDM	25	0	21.27	21.21	21.44		22.5	2	
5	OFDM	25	49	21.32	21.28	21.33				
5	OFDM	1	24	21.13	21.10	21.41		21.5	3	
5	OFDM	12	0	20.05	20.18	20.03				
5	OFDM	25	0	20.09	20.07	20.05				
5	OFDM	25	0	20.19	20.07	20.15				
5	256QAM	1	12	18.60	18.49	18.52		19.5	5	
5	256QAM	1	24	18.54	18.54	18.58				
5	256QAM	1	49	18.51	18.57	18.58				
5	256QAM	1	75	18.51	18.57	18.58				
5	256QAM	12	7	18.50	18.51	18.59		19.5	5	
5	256QAM	12	13	18.51	18.48	18.47				
5	256QAM	12	48	18.48	18.48	18.50				
Channel										
	Frequency (MHz)			23655	23655	23710	Turn-on time (dBm)	MFR (dB)		
3	OFDM	1	0	22.29	22.29	22.29		24.5	0	
3	OFDM	1	49	22.15	22.15	22.15				
3	OFDM	1	14	23.10	23.04	23.00				
3	OFDM	3	0	22.04	22.04	22.04		23.5	1	
3	OFDM	3	8	22.20	22.03	22.17				
3	OFDM	3	8	22.21	22.22	22.12				
3	OFDM	3	24	22.20	22.20	22.20				
3	OFDM	1	0	22.26	22.44	22.39		23.5	1	
3	OFDM	1	8	22.63	22.68	22.69				
3	OFDM	1	8	22.33	22.33	22.33		22.5	2	
3	OFDM	8	0	20.99	21.01	21.00				
3	OFDM	8	4	21.21	21.07	21.23		22.5	2	
3	OFDM	1	21	21.16	21.16	21.12				
3	OFDM	16	16	21.07	21.22	21.30		22.5	2	
3	OFDM	1	0	21.27	21.18	21.41				
3	OFDM	1	21	21.27	21.22	21.47				
3	OFDM	1	14	20.98	21.12	21.38		21.5	3	
3	OFDM	8	0	20.08	20.22	20.10				
3	OFDM	8	0	20.16	20.18	20.18				
3	OFDM	8	7	20.05	20.10	20.10				
3	OFDM	15	0	20.14	20.09	20.07				
3	256QAM	1	0	18.63	18.65	18.65		19.5	5	
3	256QAM	1	6	18.53	18.53	18.53				
3	256QAM	1	14	18.54	18.53	18.54				
3	256QAM	1	21	18.53	18.53	18.53				
3	256QAM	8	4	18.50	18.48	18.44		19.5	5	
3	256QAM	8	7	18.49	18.57	18.48				
3	256QAM	8	7	18.37	18.44	18.40				
Channel										
	Frequency (MHz)			23677	23677	23710	Turn-on time (dBm)	MFR (dB)		
1.4	OFDM	1	0	20.67	20.75	20.75		24.5	0	
1.4	OFDM	1	3	23.15	23.04	23.00				
1.4	OFDM	1	8	23.18	22.99	22.98		24.5	0	
1.4	OFDM	1	21	23.01	22.99	22.99				
1.4	OFDM	3	3	23.09	22.99	23.05				
1.4	OFDM	3	3	23.08	22.82	22.96		23.5	1	
1.4	OFDM	3	21	22.15	22.15	22.11				
1.4	OFDM	1	0	22.25	22.45	22.44		23.5	1	
1.4	OFDM	1	3	22.63	22.63	22.61				
1.4	OFDM	1	21	22.67	22.67	22.62				
1.4	OFDM	3	0	22.22	22.42	22.34		23.5	1	
1.4	OFDM	1	0	22.62	22.60	22.13				
1.4	OFDM	6	0	21.07	21.21	21.25		22.5	2	
1.4	OFDM	1	0	21.34	21.25	21.47				
1.4	OFDM	1	21	21.31	21.47	21.45		22.5	2	
1.4	OFDM	1	0	20.99	21.12	21.43				
1.4	OFDM	3	0	21.33	21.15	21.34				
1.4	OFDM	3	0	21.24	21.24	21.47				
1.4	OFDM	3	20	20.97	21.08	21.40		21.5	3	
1.4	OFDM	6	0	20.22	20.14	20.15		21.5	3	
1.4	OFDM	6	0	20.15	20.15	20.15				
1.4	256QAM	1	3	18.56	18.67	18.41				
1.4	256QAM	1	5	18.45	18.54	18.54		19.5	5	
1.4	256QAM	1	21	18.47	18.48	18.48				
1.4	256QAM	3	1	18.58	18.46	18.32				
1.4	256QAM	3	3	18.49	18.54	18.57		19.5	5	
1.4	256QAM	3	21	18.48	18.37	18.37				

Band 12_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Pilot [dBm]	Power Data [dBm]	Power Pilot [dBm]	Power Data [dBm]	Turn-on Time [μs]	MPE [dB]	
Channel										
Frequency [MHz]		23005		23095		23130				
Frequency [MHz]		704		707.5		711				
5	QPSK	1	0	23.00	22.92	22.99				
5	QPSK	1	1	23.00	22.92	22.99			24.5	0
5	QPSK	1	49	23.00	23.03	22.97				
5	QPSK	25	0	22.98	22.95	22.92				
5	QPSK	25	25	22.98	22.93	22.91			23.5	1
5	QPSK	25	50	22.97	22.93	22.91				
5	QPSK	1	0	22.26	22.17	22.20				
5	QPSK	1	26	22.31	22.43	22.33			23.5	1
5	QPSK	1	49	22.31	22.43	22.33				
5	QPSK	25	0	22.26	22.17	22.20				
5	QPSK	25	25	21.01	21.02	21.04				
5	QPSK	25	25	21.11	21.08	21.14			22.5	2
5	QPSK	25	50	21.11	21.10	21.08				
5	QPSK	1	0	21.08	21.13	21.01				
5	QPSK	1	49	21.08	21.13	21.01			22.5	2
5	QPSK	25	0	20.02	20.05	20.02				
5	QPSK	25	25	20.17	20.04	20.21				
5	QPSK	25	25	20.17	20.04	20.21			21.5	3
5	QPSK	25	50	20.12	20.10	20.09				
5	QPSK	25	50	20.10	20.08	20.12				
5	25QAM	1	26	18.33	18.44	18.36			19.5	5
5	25QAM	1	49	18.25	18.39	18.43				
5	25QAM	1	74	18.25	18.39	18.43				
5	25QAM	25	0	18.38	18.41	18.44			19.5	5
5	25QAM	25	25	18.39	18.44	18.30				
5	25QAM	25	50	18.39	18.44	18.30				
Channel										
Frequency [MHz]		23005		23095		23130		Turn-on Time [μs]	MPE [dB]	
Frequency [MHz]		701.5		707.5		713.5				
5	QPSK	1	0	22.97	22.81	22.94				
5	QPSK	1	1	23.02	23.16	23.03			24.5	0
5	QPSK	1	34	22.98	23.10	23.02				
5	QPSK	1	50	22.98	23.10	23.02				
5	QPSK	12	0	22.10	22.19	22.11			23.5	1
5	QPSK	12	13	22.07	22.15	22.07				
5	QPSK	12	13	22.07	22.15	22.07				
5	QPSK	1	0	22.49	22.20	22.21				
5	QPSK	1	12	22.53	22.84	22.43			23.5	1
5	QPSK	1	12	22.53	22.84	22.43				
5	QPSK	12	0	21.16	21.12	21.05				
5	QPSK	12	7	21.10	21.23	21.17			22.5	2
5	QPSK	12	13	21.10	21.23	21.17				
5	QPSK	25	0	21.17	21.13	20.98				
5	QPSK	25	0	21.16	20.90	20.98				
5	QPSK	25	25	21.20	21.07	21.03			22.5	2
5	QPSK	1	24	20.86	21.33	21.39				
5	QPSK	12	0	20.26	20.08	20.32				
5	QPSK	12	7	20.26	20.15	20.25			21.5	3
5	QPSK	12	13	20.27	20.05	20.25				
5	QPSK	25	0	20.17	20.16	19.94				
5	QPSK	25	25	20.17	20.05	20.23				
5	25QAM	1	12	18.10	18.12	18.00			19.5	5
5	25QAM	1	26	17.90	18.17	18.04				
5	25QAM	1	50	18.12	18.00	18.18				
5	25QAM	12	7	18.09	18.02	18.05			19.5	5
5	25QAM	12	13	18.11	18.08	17.98				
5	25QAM	12	13	18.11	18.08	17.98				
Channel										
Frequency [MHz]		23005		23095		23130		Turn-on Time [μs]	MPE [dB]	
Frequency [MHz]		700.5		707.5		713.5				
3	QPSK	1	0	23.08	23.10	23.05			24.5	0
3	QPSK	1	8	22.97	22.94	22.91				
3	QPSK	1	14	22.97	22.94	22.91				
3	QPSK	1	20	22.97	22.94	22.91				
3	QPSK	8	0	22.14	22.11	22.15			23.5	1
3	QPSK	8	7	22.07	22.07	22.10				
3	QPSK	8	14	22.07	22.07	22.10				
3	QPSK	8	20	22.07	22.07	22.10				
3	QPSK	1	0	22.14	22.18	22.17			23.5	1
3	QPSK	1	8	22.46	22.50	22.31				
3	QPSK	1	14	22.46	22.50	22.31				
3	QPSK	1	20	22.46	22.50	22.31				
3	QPSK	8	0	21.18	21.08	20.96				
3	QPSK	8	7	21.19	21.24	21.16			22.5	2
3	QPSK	8	14	21.19	21.24	21.16				
3	QPSK	8	20	21.19	21.24	21.16				
3	QPSK	15	0	21.07	21.01	21.04				
3	QPSK	15	8	21.22	21.43	21.19			22.5	2
3	QPSK	15	14	21.22	21.43	21.19				
3	QPSK	15	20	21.22	21.43	21.19				
3	QPSK	1	14	21.84	20.97	20.88			21.5	3
3	QPSK	8	0	20.22	19.97	20.28				
3	QPSK	8	7	20.22	19.97	20.28				
3	QPSK	8	14	20.22	19.97	20.28				
3	QPSK	15	0	20.04	20.09	20.03				
3	QPSK	15	8	20.04	20.09	20.03				
3	QPSK	15	14	20.04	20.09	20.03				
3	QPSK	1	0	17.95	18.07	18.13			19.5	5
3	25QAM	1	14	17.91	18.03	18.04				
3	25QAM	1	20	17.91	18.03	18.04				
3	25QAM	8	7	18.17	18.07	18.07			19.5	5
3	25QAM	8	14	18.14	18.06	18.07				
3	25QAM	8	20	18.06	18.20	18.02				
3	25QAM	1	14	18.18	18.09	18.02				
Channel										
Frequency [MHz]		23007		23097		23173		Turn-on Time [μs]	MPE [dB]	
Frequency [MHz]		697.7		707.7		713.7				
1.4	QPSK	1	0	23.03	23.08	23.04				
1.4	QPSK	1	8	22.99	23.02	22.99			24.5	0
1.4	QPSK	1	16	23.03	23.09	23.00				
1.4	QPSK	3	0	23.06	23.01	22.97				
1.4	QPSK	3	8	23.05	23.05	22.98				
1.4	QPSK	3	16	23.05	23.05	22.98			23.5	1
1.4	QPSK	1	0	22.52	22.27	22.35				
1.4	QPSK	1	8	22.41	22.45	22.39				
1.4	QPSK	1	16	22.41	22.45	22.39				
1.4	QPSK	3	0	22.22	22.07	22.14			23.5	1
1.4	QPSK	3	8	22.19	22.13	22.10				
1.4	QPSK	3	16	22.19	22.13	22.10				
1.4	QPSK	6	0	21.15	21.16	21.16			20.8	2
1.4	QPSK	6	8	21.15	21.20	21.22				
1.4	QPSK	6	16	21.15	21.20	21.22				
1.4	QPSK	1	0	21.24	21.27	21.15			22.5	2
1.4	QPSK	1	8	21.19	21.13	21.16				
1.4	QPSK	1	16	21.19	21.13	21.16				
1.4	QPSK	3	0	21.17	21.19	21.10			21.5	3
1.4	QPSK	3	8	20.07	20.13	20.11				
1.4	QPSK	3	16	20.07	20.13	20.11				
1.4	25QAM	1	3	17.96	18.19	18.01				
1.4	25QAM	1	5	17.96	18.08	18.11			19.5	5
1.4	25QAM	1	7	18.16	18.22	18.02				
1.4	25QAM	3	1	18.13	18.17	18.07				
1.4	25QAM	3	3	18.13	18.06	18.04			19.5	5
1.4	25QAM	3	5	18.08	18.14	18.04				



Band 13_Ant 13										
BW [MHz]	Modulation	RB Size	RE Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on time (dB)	MPE (dB)		
Channel							2320			
Frequency (MHz)										
10	QPSK	1	0	22.87			24	0		
10	QPSK	1	25	23.08						
10	QPSK	1	49	22.78						
10	QPSK	25	0	21.89			23	1		
10	QPSK	25	12	21.84						
10	QPSK	25	25	21.84						
10	QPSK	50	0	21.85			23	1		
10	16QAM	1	0	22.28						
10	16QAM	1	25	21.89						
10	16QAM	1	49	22.54			22	2		
10	16QAM	25	0	20.96						
10	16QAM	25	12	20.96						
10	16QAM	25	25	20.92			22	2		
10	16QAM	50	0	20.82						
10	16QAM	1	0	21.27						
10	16QAM	1	25	21.25			22	2		
10	16QAM	1	49	21.17						
10	16QAM	25	0	19.98						
10	16QAM	25	12	19.87			21	3		
10	16QAM	25	25	19.90						
10	16QAM	50	0	19.81						
10	256QAM	1	0	17.88			19	5		
10	256QAM	1	25	18.02						
10	256QAM	1	49	17.98						
10	256QAM	25	0	17.98			19	5		
10	256QAM	25	12	17.94						
10	256QAM	25	25	17.99						
10	256QAM	50	0	17.92						
Channel							23205	23205	Turn-on time (dB)	
Frequency (MHz)							2315	2315	MPE (dB)	
5	QPSK	1	0	22.88	22.87	22.73	24	0		
5	QPSK	1	12	22.89	22.91	22.86				
5	QPSK	1	24	22.78	22.81	22.87				
5	QPSK	12	0	21.88	21.89	21.82	23	1		
5	QPSK	12	7	21.89	21.93	21.87				
5	QPSK	12	13	21.98	21.98	21.99				
5	QPSK	25	0	21.92	21.94	21.85	23	1		
5	16QAM	1	0	22.31	22.08	22.11				
5	16QAM	1	12	22.48	21.95	22.11				
5	16QAM	1	24	22.14	22.00	22.19	22	2		
5	16QAM	12	0	20.88	21.64	21.00				
5	16QAM	12	7	20.94	21.01	20.93				
5	16QAM	12	13	21.07	20.89	20.81	22	2		
5	16QAM	25	0	20.91	20.86	20.76				
5	16QAM	25	0	20.94	21.15	21.08				
5	16QAM	1	12	20.87	21.05	20.92	22	2		
5	16QAM	1	24	21.14	21.07	21.12				
5	16QAM	12	0	19.80	19.87	19.93				
5	16QAM	12	7	19.90	19.94	19.78	21	3		
5	16QAM	12	13	19.89	19.93	19.96				
5	16QAM	25	0	19.90	19.95	19.78				
5	256QAM	1	0	17.79	17.80	17.67	19	5		
5	256QAM	1	12	17.87	18.02	17.85				
5	256QAM	1	24	17.88	17.91	17.88				
5	256QAM	12	0	17.87	17.83	17.77	19	5		
5	256QAM	12	7	17.94	17.83	17.86				
5	256QAM	12	13	17.85	17.88	17.73				
5	256QAM	25	0	17.89	17.91	17.87				

Band 13_Ant 31														
BW [MHz]	Modulation	RB Size	RE Config	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)						
Channel							2320							
Frequency (MHz)														
10	QPSK	1	0	22.53			24	0						
10	QPSK	1	25	22.67										
10	QPSK	1	49	22.52										
10	QPSK	25	0	21.68			23	1						
10	QPSK	25	12	21.62										
10	QPSK	25	25	21.61										
10	QPSK	50	0	21.71			23	1						
10	16QAM	1	0	22.09										
10	16QAM	1	25	21.98										
10	16QAM	1	49	22.18			22	2						
10	16QAM	25	0	20.61										
10	16QAM	25	12	20.61										
10	16QAM	25	25	20.73			22	2						
10	16QAM	50	0	20.80										
10	16QAM	1	0	21.09										
10	16QAM	1	25	21.41			22	2						
10	16QAM	1	49	20.95										
10	16QAM	25	12	19.87										
10	16QAM	25	25	19.71			21	3						
10	16QAM	25	25	19.85										
10	16QAM	50	0	19.83										
10	256QAM	1	0	17.77			19	5						
10	256QAM	1	25	17.75										
10	256QAM	1	49	17.78										
Channel											23205			
Frequency (MHz)											23205			
5	QPSK	1	0	22.27	22.50	22.49					24	0		
5	QPSK	1	12	22.39	22.64	22.58								
5	QPSK	1	24	22.33	22.55	22.45								
5	QPSK	12	0	21.40	21.59	21.58	23	1						
5	QPSK	12	7	21.41	21.65	21.57								
5	QPSK	12	13	21.43	21.49	21.51								
5	QPSK	25	0	21.39	21.62	21.58	23	1						
5	16QAM	1	0	21.57	21.92	21.86								
5	16QAM	1	12	21.67	22.10	21.81								
5	16QAM	1	24	21.67	21.73	21.99	22	2						
5	16QAM	12	0	20.43	20.51	20.66								
5	16QAM	12	7	20.42	20.44	20.72								
5	16QAM	12	13	20.47	20.76	20.70	22	2						
5	16QAM	25	0	20.40	20.61	20.62								
5	16QAM	25	0	20.50	20.90	21.23								
5	16QAM	1	12	20.50	20.85	21.35	22	2						
5	16QAM	1	24	20.59	20.77	21.00								
5	16QAM	12	0	19.42	19.75	19.98								
5	16QAM	12	7	19.40	19.57	19.70	21	3						
5	16QAM	12	13	19.44	19.77	19.62								
5	16QAM	25	0	19.40	19.97	19.73								
5	256QAM	1	0	17.63	17.70	17.74	19	5						
5	256QAM	1	12	17.62	17.87	17.86								
5	256QAM	1	24	17.65	17.82	17.64								
5	256QAM	12	0	17.66	17.70	17.67	19	5						
5	256QAM	12	7	17.72	17.73	17.73								
5	256QAM	12	13	17.64	17.57	17.48								
5	256QAM	25	0	17.61	17.62	17.61								

Band 17_Ant 13		
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Band 26_Ant 13															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tune-up Intvl (Sec)	MPR (dB)							
Channel															
				26765	26865	26965									
				811.5	811.5	811.5									
15	QPSK	1	0	23.38	23.27	23.25	25	0							
15	QPSK	1	37	23.40	23.33	23.43									
15	QPSK	1	74	23.38	23.28	23.42									
15	QPSK	36	20	22.47	22.49	22.37									
15	QPSK	36	39	22.47	22.48	22.38									
15	QPSK	75	0	22.40	22.46	22.40	24	1							
15	16QAM	1	0	22.58	22.59	22.29									
15	16QAM	1	37	22.57	22.53	22.58									
15	16QAM	1	74	22.38	22.84	22.60									
15	16QAM	36	20	21.46	21.47	21.47									
15	16QAM	36	39	21.50	21.52	21.60	23	2							
15	16QAM	36	75	0	21.47	21.47									
15	16QAM	75	0	21.71	21.70	21.68									
15	16QAM	1	0	21.35	21.28	21.85									
15	16QAM	1	74	21.23	21.24	21.72									
15	16QAM	36	0	20.58	20.44	20.49	22	3							
15	16QAM	36	20	20.63	20.47	20.43									
15	16QAM	36	39	20.52	20.46	20.44									
15	16QAM	75	0	20.54	20.43	20.40									
15	256QAM	1	0	18.99	18.94	18.94									
15	256QAM	1	37	18.96	18.91	18.92	20	5							
15	256QAM	1	74	19.08	19.06	19.09									
15	256QAM	36	20	18.95	18.99	18.94									
15	256QAM	36	39	19.02	19.03	18.98									
15	256QAM	75	0	18.93	18.96	18.87									
Channel															
				26760	26860	26960									
				810	810.5	811									
15	QPSK	1	0	23.17	23.04	23.04	25	0							
15	QPSK	1	25	23.22	23.30	23.28									
15	QPSK	1	49	23.12	23.11	23.07									
15	QPSK	25	0	22.28	22.15	22.24									
15	QPSK	25	12	22.22	22.21	22.28									
15	QPSK	25	25	22.29	22.33	22.31	24	1							
15	QPSK	50	0	22.38	22.17	22.27									
15	16QAM	1	0	22.33	22.71	22.31									
15	16QAM	1	25	22.17	22.55	22.38									
15	16QAM	1	49	22.15	22.87	22.43									
15	16QAM	25	0	21.22	21.26	21.26	23	2							
15	16QAM	25	12	21.34	21.31	21.40									
15	16QAM	25	25	21.39	21.24	21.24									
15	16QAM	50	0	21.28	21.24	21.20									
15	16QAM	1	0	21.47	21.52	21.41									
15	16QAM	1	25	21.18	21.12	21.55	23	2							
15	16QAM	1	49	21.02	21.00	21.46									
15	16QAM	25	0	20.53	20.28	20.31									
15	16QAM	25	12	20.58	20.24	20.18									
15	16QAM	25	25	20.50	20.27	20.19									
15	16QAM	50	0	20.59	20.25	20.21	22	3							
15	256QAM	1	0	18.99	18.95	18.95									
15	256QAM	1	25	18.91	18.79	18.83									
15	256QAM	1	49	19.07	19.03	19.08									
15	256QAM	25	0	18.91	18.94	18.85									
15	256QAM	25	12	18.94	18.97	18.88	20	5							
15	256QAM	25	25	18.95	18.97	18.95									
15	256QAM	50	0	18.74	18.87	18.77									
Channel															
				26765	26865	26965									
				810.5	811	811.5									
5	QPSK	1	0	23.14	23.05	23.02	25	0							
5	QPSK	1	12	23.21	23.30	23.28									
5	QPSK	1	24	23.11	23.07	23.05									
5	QPSK	12	0	22.25	22.11	22.25									
5	QPSK	12	7	22.28	22.20	22.27									
5	QPSK	12	13	22.32	22.34	22.32	24	1							
5	QPSK	25	0	22.43	22.19	22.23									
5	16QAM	1	0	22.41	22.70	22.13									
5	16QAM	1	12	22.13	22.60	22.41									
5	16QAM	1	24	22.21	22.60	22.41									
5	16QAM	12	0	21.21	21.26	21.29	23	2							
5	16QAM	12	7	21.35	21.30	21.38									
5	16QAM	12	13	21.41	21.25	21.27									
5	16QAM	25	0	21.30	21.23	21.21									
5	16QAM	1	0	21.46	21.53	21.38									
5	16QAM	1	12	21.17	21.07	21.54	23	2							
5	16QAM	1	24	21.01	21.01	21.47									
5	16QAM	12	0	20.58	20.20	20.25									
5	16QAM	12	7	20.44	20.22	20.23									
5	16QAM	12	13	20.34	20.24	20.27									
5	16QAM	25	0	20.59	20.19	20.20	22	3							
5	256QAM	1	0	18.92	18.96	18.81									
5	256QAM	1	12	18.97	18.79	18.81									
5	256QAM	1	24	18.97	19.08	18.92									
5	256QAM	12	0	18.89	18.97	18.88									
5	256QAM	12	7	18.92	18.95	18.87	20	5							
5	256QAM	12	13	18.96	18.96	18.95									
5	256QAM	25	0	18.77	18.99	18.78									
Channel															
				26870	26965	27070									
				811.5	811.5	848.1									
3	QPSK	1	0	23.15	23.09	23.05	25	0							
3	QPSK	1	8	23.24	23.30	23.20									
3	QPSK	1	14	23.14	23.07	23.05									
3	QPSK	8	0	22.31	22.18	22.25									
3	QPSK	8	4	22.22	22.12	22.28									
3	QPSK	8	7	22.25	22.36	22.32	24	1							
3	QPSK	15	0	22.41	22.16	22.24									
3	16QAM	1	0	22.39	22.68	22.07									
3	16QAM	1	8	22.13	22.67	22.38									
3	16QAM	1	14	22.14	22.62	22.41									
3	16QAM	8	0	21.28	21.26	21.28	23	2							
3	16QAM	8	4	21.38	21.										

Band 66_Ant 31																
(BW [MHz])	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPR (dB)								
Channel																
Frequency (MHz)																
130272 132222 132622																
20	QPSK	1	0	19.72	19.74	19.72	21.5	0								
20	QPSK	1	48	19.73	19.75	19.77										
20	QPSK	1	96	19.83	19.88	19.87										
20	QPSK	50	0	19.85	19.92	19.94	21.5	0								
20	QPSK	50	24	19.83	19.81	19.73										
20	QPSK	50	50	19.80	19.71	19.78										
20	16QAM	1	0	19.83	19.85	19.75	21.5	0								
20	16QAM	1	48	19.74	19.75	19.73										
20	16QAM	50	0	19.78	19.75	19.81										
20	16QAM	50	24	19.89	19.84	19.84	21.5	0								
20	16QAM	50	50	19.78	19.74	19.86										
20	16QAM	100	0	19.78	19.82	19.84										
20	64QAM	1	0	19.82	19.82	19.76	21.5	0								
20	64QAM	1	48	19.85	19.81	19.77										
20	64QAM	50	0	19.75	19.73	19.81										
20	64QAM	50	24	19.90	19.89	19.78	21.5	0								
20	64QAM	50	50	19.83	19.74	19.83										
20	64QAM	100	0	19.83	19.81	19.80										
20	256QAM	1	0	17.68	17.79	17.77	19.5	2								
20	256QAM	1	48	17.85	17.87	17.74										
20	256QAM	1	96	17.86	17.82	17.73										
20	256QAM	50	0	17.63	17.77	17.72	19.5	2								
20	256QAM	50	24	17.87	17.88	17.78										
20	256QAM	50	50	17.75	17.83	17.83										
20	256QAM	100	0	17.74	17.85	17.79	19.5	2								
Channel																
132407 132222 132622																
Frequency (MHz)																
15	QPSK	1	0	19.73	19.74	19.72.5	21.5	MPR (dB)								
15	QPSK	1	37	19.78	19.85	19.80										
15	QPSK	1	74	19.84	19.87	19.72										
15	QPSK	1	74	19.84	19.87	19.72	21.5	0								
15	QPSK	36	0	19.76	19.78	19.87										
15	QPSK	36	20	19.69	19.66	19.54										
15	QPSK	36	36	19.73	19.65	19.66	21.5	0								
15	QPSK	75	0	19.62	19.64	19.77										
15	16QAM	1	0	19.76	19.76	19.72										
15	16QAM	1	37	19.65	19.72	19.69	21.5	0								
15	16QAM	1	74	19.74	19.73	19.85										
15	16QAM	36	0	19.67	19.62	19.75										
15	16QAM	36	20	19.71	19.80	19.72	21.5	0								
15	16QAM	36	36	19.67	19.71	19.73										
15	16QAM	75	0	19.60	19.80	19.71										
15	64QAM	1	0	19.79	19.62	19.71	21.5	0								
15	64QAM	1	37	19.85	19.77	19.86										
15	64QAM	1	74	19.85	19.62	19.86										
15	64QAM	36	0	19.68	19.80	19.75	21.5	0								
15	64QAM	36	20	19.88	19.65	19.81										
15	64QAM	36	36	19.79	19.66	19.82										
15	64QAM	75	0	19.87	19.74	19.76	21.5	0								
15	64QAM	75	0	19.87	19.74	19.76										
15	256QAM	1	0	17.64	17.77	17.70			19.5	2						
15	256QAM	1	48	17.88	17.76	17.72										
15	256QAM	1	96	17.72	17.73	17.74										
15	256QAM	50	0	17.62	17.72	17.69	19.5	2								
15	256QAM	50	24	17.87	17.82	17.70										
15	256QAM	50	36	17.65	17.77	17.76										
15	256QAM	75	0	17.69	17.83	17.73	19.5	2								
Channel																
132622 132222 132622																
Frequency (MHz)																
10	QPSK	1	0	19.63	19.69	19.80	21.5	MPR (dB)								
10	QPSK	1	25	19.85	19.89	19.83										
10	QPSK	1	48	19.74	19.82	19.87										
10	QPSK	1	48	19.74	19.82	19.87	21.5	0								
10	QPSK	25	0	19.70	19.75	19.70										
10	QPSK	25	12	19.77	19.68	19.60										
10	QPSK	25	25	19.59	19.63	19.80	21.5	0								
10	QPSK	50	0	19.63	19.68	19.68										
10	16QAM	1	0	19.66	19.69	19.69										
10	16QAM	1	25	19.67	19.64	19.54	21.5	0								
10	16QAM	1	48	19.65	19.62	19.80										
10	16QAM	25	0	19.63	19.73	19.78										
10	16QAM	25	12	19.71	19.67	19.74	21.5	0								
10	16QAM	25	25	19.59	19.54	19.80										
10	16QAM	50	0	19.69	19.62	19.69										
10	16QAM	1	0	19.65	19.65	19.58	21.5	0								
10	16QAM	1	25	19.79	19.62	19.86										
10	16QAM	1	48	19.72	19.74	19.86										
10	64QAM	1	0	19.64	19.57	19.88	21.5	0								
10	64QAM	1	25	19.88	19.73	19.71										
10	64QAM	1	48	19.67	19.60	19.74										
10	64QAM	25	0	19.68	19.73	19.71	21.5	0								
10	64QAM	25	12	17.61	17.71	17.62										
10	64QAM	25	25	17.76	17.85	17.73										
10	256QAM	1	0	17.55	17.75	17.70	19.5	2								
10	256QAM	1	25	17.78	17.69	17.62										
10	256QAM	1	48	17.72	17.73	17.74										
10	256QAM	25	0	17.55	17.75	17.70	19.5	2								
10	256QAM	25	12	17.69	17.74	17.67										
10	256QAM	25	25	17.71	17.80	17.69										
10	256QAM	50	0	17.63	17.79	17.66	19.5	2								
Channel																
132622 132222 132622																
Frequency (MHz)																
5	QPSK	1	0	19.64	19.58	19.88	21.5	MPR (dB)								
5	QPSK	1	12	19.87	19.79	19.79										
5	QPSK	1	24	19.72	19.52	19.85										
5	QPSK	1	24	19.72	19.52	19.85	21.5	0								
5	QPSK	12	0	19.76	19.74	19.86										
5	QPSK	12	7	19.66	19.74	19.57										
5	QPSK	12	13	19.63	19.57	19.68	21.5	0								
5	QPSK	25	0	19.71	19.78	19.70										
5	16QAM	1	0	19.67	19.75	19.57										
5	16QAM	1	12	19.69	19.68	19.88	21.5	0								
5	16QAM	1	25	19.74	19.74	19.72										
5	16QAM	1	48	19.78	19.63	19.71										
5	16QAM	12	0	19.76	19.66	19.71	21.5	0								
5	16QAM	12	7	19.66	19.74	19.57										
5	16QAM	12	13	19.63	19.57	19.68										
5	16QAM	25	0	19.61	19.62	19.66	21.5	0								
5	16QAM	25	0	19.61	19.62	19.66										
5	64QAM	1	0	19.73	19.67	19.88										
5	64QAM	1	12	19.87	19.79	19.79	21.5	0								
5	64QAM	1	24	19.68	19.60	19.67										
5	64QAM	12	0	19.68	19.58	19.86										
5	64QAM	12	7	19.64	19.64	19.64	21.5	0								
5	64QAM	12	13	19.56	19.58	19.60										
5	64QAM	25	0	19.76	19.62	19.73										
5	64QAM	25	7	17.65	17.75	17.66	19.5	2								
5	64QAM	25	13	17.74	17.74	17.73										
5	64QAM	50	0	19.76	19.69	19.69										
5	256QAM	1	0	17.55	17.75	17.70	19.5	2								
5	256QAM	1	12	17.78	17.69	17.62										
5	256QAM	1	24	17.72	17.73	17.74										
5	256QAM	12	0	17.55	17.75	17.70	19.5	2								
5	256QAM	12	7	17.66	17.67	17.70										
5	256QAM	12	13	17.60	17.85	17.68										
5	256QAM	25	0	17.67	17.78	17.67	19.5	2								
Channel																
132622 132222 132622																
Frequency (MHz)																
1.4	QPSK	1	0	19.63	19.69	19.80	21.5	MPR (dB)								
1.4	QPSK	1	12	19.87	19.79	19.79										
1.4	QPSK	1	24	19.72	19.52	19.85										
1.4	QPSK	1	24	19.72	19.52	19.85	21.5	0								
1.4	QPSK	12	0	19.76	19.74	19.86										
1.4	QPSK	12	7	19.66	19.74	19.57										
1.4	QPSK	12	13	19.63	19.57	19.68	21.5	0								
1.4	QPSK	25	0	19.71	19.78	19.70										
1.4	16QAM	1	0	19.67	19.75	19.57										
1.4	16QAM	1	12	19.69	19.68	19.87	21.5	0								
1.4	16QAM	1	24	19.74	19.74	19.72										
1.4	16QAM	1	48	19.78	19.75	19.82										
1.4	16QAM	1	48	19.78	19.75	19.82	21.5	0								
1.4	16QAM	16	0	19.75	19.79	19.66										
1.4	16QAM	16	0	19.69	19.63	19.67										
1.4	16QAM	16	12	19.77	19.66	19.77	21.5	0								
1.4	16QAM	16	24	19.64	19.77	19.67										
1.4	16QAM	16	48	19.61	19.61	19.87										
1.4	64QAM	1	0	19.61	19.61	19.87	21.5	0								
1.4	64QAM	1	12	19.72	19.55	19.89										
1.4	64QAM	1	24	19.71	19.50	19.81										
1.4	64QAM	1	24	19.71	19.50	19.81	21.5	0								
1.4	64QAM	8	0	19.68	19.70	19.82										
1.4	64QAM	8	7	19.71	19.60	19.81										
1.4	64QAM	8	7	19.71	19.60	19.81	19.5	2								
1.4	64QAM	16	0	19.68	19.64	19.86										
1.4	64QAM	16	7	17.65	17.75	17.66										
1.4	256QAM	1	0	17.55	17.75	17.70	19.5	2								
1.4	256QAM	1	14	17.75	17.71	17.71										
1.4	256QAM	1	28	17.72	17.80	17.69										
1.4	256QAM	1	28	17.72	17.80	17.69	19.5	2								
1.4	256QAM	8	0	17.61	17.70	17.78										
1.4	256QAM	8	7	17.67	17.70	17.81										
1.4	256QAM	16	0	17.54												



Band 38_Ant 13											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int. (dB)	MFR (dB)			
Channel											
Frequency MHz											
20	QPSK	1	0	16.81	16.83	16.87	18	0			
20	QPSK	1	49	16.71	16.91	16.85					
20	QPSK	1	98	16.58	16.70	16.85					
20	QPSK	50	0	16.66	16.85	16.85					
20	QPSK	50	24	16.59	16.71	16.85					
20	QPSK	50	50	16.52	16.73	16.73	18	0			
20	QPSK	100	0	16.57	16.82	16.82					
20	16QAM	1	0	16.63	16.86	16.82					
20	16QAM	1	49	16.53	16.75	16.75					
20	16QAM	1	99	16.68	16.78	16.71					
20	16QAM	50	0	16.52	16.73	16.72	18	0			
20	16QAM	50	24	16.54	16.72	16.84					
20	16QAM	50	50	16.61	16.63	16.69					
20	16QAM	100	0	16.64	16.68	16.69					
20	64QAM	1	0	16.57	16.88	16.72					
20	64QAM	1	49	16.55	16.77	16.69	18	0			
20	64QAM	1	99	16.57	16.72	16.72					
20	64QAM	50	0	16.60	16.68	16.73					
20	64QAM	50	24	16.68	16.67	16.68					
20	64QAM	50	50	16.62	16.67	16.66					
20	256QAM	1	0	16.64	16.88	16.83	18	0			
20	256QAM	1	49	16.54	16.79	16.81					
20	256QAM	1	99	16.66	16.69	16.81					
20	256QAM	50	0	16.68	16.69	16.71					
20	256QAM	50	24	16.55	16.69	16.82					
20	256QAM	50	50	16.65	16.68	16.67	18	0			
20	256QAM	100	0	16.57	16.88	16.72					
20	256QAM	100	0	16.64	16.84	16.71					
Channel											
Frequency MHz											
15	QPSK	1	0	16.66	16.68	16.84	18	0			
15	QPSK	1	37	16.68	16.62	16.85					
15	QPSK	1	74	16.74	16.64	16.71					
15	QPSK	36	0	16.57	16.70	16.73					
15	QPSK	36	20	16.60	16.74	16.85					
15	QPSK	36	40	16.64	16.70	16.77	18	0			
15	QPSK	75	0	16.66	16.76	16.78					
15	16QAM	1	0	16.52	16.63	16.80					
15	16QAM	1	37	16.55	16.75	16.83					
15	16QAM	1	74	16.51	16.69	16.78					
15	16QAM	36	0	16.56	16.61	16.74	18	0			
15	16QAM	36	20	16.54	16.72	16.84					
15	16QAM	36	40	16.64	16.72	16.84					
15	16QAM	75	0	16.55	16.68	16.72					
15	64QAM	1	0	16.62	16.72	16.86					
15	64QAM	1	37	16.62	16.71	16.86	18	0			
15	64QAM	1	74	16.67	16.74	16.76					
15	64QAM	36	0	16.60	16.63	16.83					
15	64QAM	36	20	16.65	16.76	16.83					
15	64QAM	36	40	16.59	16.72	16.86					
15	256QAM	1	0	16.61	16.77	16.82	18	0			
15	256QAM	1	37	16.67	16.70	16.74					
15	256QAM	1	74	16.63	16.67	16.80					
15	256QAM	36	0	16.64	16.68	16.85					
15	256QAM	36	20	16.57	16.69	16.84					
15	256QAM	36	40	16.56	16.68	16.84	18	0			
15	256QAM	75	0	16.58	16.69	16.80					
15	256QAM	75	0	16.67	16.68	16.83					
Channel											
Frequency MHz											
10	QPSK	1	0	16.53	16.70	16.72	18	0			
10	QPSK	1	25	16.59	16.76	16.77					
10	QPSK	1	50	16.63	16.83	16.77					
10	QPSK	25	0	16.56	16.67	16.67					
10	QPSK	25	12	16.60	16.69	16.80					
10	QPSK	25	12	16.64	16.74	16.82	18	0			
10	QPSK	50	0	16.57	16.74	16.85					
10	16QAM	1	0	16.55	16.68	16.72					
10	16QAM	1	49	16.60	16.62	16.75					
10	16QAM	1	99	16.65	16.78	16.76					
10	16QAM	25	0	16.68	16.78	16.81	18	0			
10	16QAM	25	12	16.60	16.62	16.75					
10	16QAM	25	25	16.63	16.78	16.74					
10	16QAM	50	0	16.62	16.65	16.76					
10	64QAM	1	0	16.57	16.66	16.84					
10	64QAM	1	25	16.61	16.74	16.67	18	0			
10	64QAM	1	49	16.59	16.70	16.76					
10	64QAM	1	99	16.60	16.71	16.76					
10	64QAM	25	12	16.67	16.60	16.84					
10	64QAM	25	12	16.61	16.75	16.81					
10	256QAM	1	0	16.56	16.64	16.83	18	0			
10	256QAM	1	0	16.62	16.61	16.69					
10	256QAM	1	25	16.66	16.74	16.76					
10	256QAM	1	49	16.56	16.64	16.82					
10	256QAM	1	99	16.67	16.64	16.70					
10	256QAM	25	0	16.57	16.64	16.70	18	0			
10	256QAM	25	12	16.56	16.67	16.74					
10	256QAM	25	25	16.56	16.76	16.67					
10	256QAM	50	0	16.65	16.79	16.84					
Channel											
Frequency MHz											
5	QPSK	1	0	16.54	16.68	16.81	18	0			
5	QPSK	1	12	16.55	16.65	16.73					
5	QPSK	1	25	16.60	16.84	16.69	18	0			
5	QPSK	12	0	16.68	16.78	16.79					
5	QPSK	12	7	16.59	16.74	16.72	18	0			
5	QPSK	12	17	16.55	16.75	16.74					
5	QPSK	12	17	16.55	16.75	16.74	18	0			
5	QPSK	25	0	16.57	16.82	16.71					
5	16QAM	1	0	16.54	16.72	16.78	18	0			
5	16QAM	1	12	16.59	16.77	16.77					
5	16QAM	1	25	16.61	16.77	16.79	18	0			
5	16QAM	12	0	16.63	16.67	16.83					
5	16QAM	12	17	16.56	16.76	16.77	18	0			
5	16QAM	12	18	16.51	16.72	16.71					
5	16QAM	25	0	16.60	16.79	16.84	18	0			
5	16QAM	25	12	16.60	16.73	16.87					
5	16QAM	1	12	16.62	16.85	16.69	18	0			
5	64QAM	1	24	16.61	16.75	16.80					
5	64QAM	1	25	16.60	16.75	16.75	18	0			
5	64QAM	12	7	16.51	16.72	16.75					
5	64QAM	12	13	16.65	16.79	16.82	18	0			
5	64QAM	12	14	16.70	16.72	16.75					
5	256QAM	1	0	16.57	16.68	16.74	18	0			
5	256QAM	1	12	16.65	16.77	16.81					
5	256QAM	1	25	16.62	16.72	16.76	18	0			
5	256QAM	12	0	16.53	16.84	16.74					
5	256QAM	12	7	16.53	16.84	16.74	18	0			
5	256QAM	25	0	16.64	16.82	16.71					



Band 41_Ant 31											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Mod. Ch./Freq.	Power Mod. Ch./Freq.	Power High Mod. Ch./Freq.	Power High Ch./Freq.	Turnup limit (dB)	MPR (dB)	
Channel				39750	40185	40560	41055	41450			
Frequency [MHz]				2506	2543.5	2580	2618.5	2655			
20	QPSK	1	0	23.32	23.27	23.48	23.23	23.22	25	0	
20	QPSK	1	48	23.48	23.37	23.51	23.47	23.38			
20	QPSK	1	96	23.26	23.26	23.38	23.37	23.17			
20	QPSK	50	0	23.30	23.43	22.80	23.00	23.38			
20	QPSK	50	24	22.33	22.33	22.58	22.40	22.24			
20	QPSK	50	56	22.37	22.38	22.47	22.41	21.27	24	1	
20	QPSK	100	0	22.32	22.33	22.58	22.37	22.38			
20	16QAM	1	0	22.21	22.18	22.38	22.36	22.20			
20	16QAM	1	48	22.22	22.35	22.41	22.34	22.32			
20	16QAM	1	96	22.46	22.31	22.55	22.43	22.41			
20	16QAM	50	0	21.30	21.42	21.57	21.47	21.23	23	2	
20	16QAM	50	24	21.30	21.37	21.61	21.47	21.27			
20	16QAM	50	50	21.26	21.29	21.63	21.41	21.25			
20	16QAM	100	0	21.24	21.39	21.48	21.51	21.33			
20	16QAM	100	0	21.53	21.20	21.48	21.37	21.26			
20	64QAM	1	48	21.40	21.27	21.65	21.18	21.10	23	2	
20	64QAM	1	96	21.36	21.29	21.36	21.30	21.24			
20	64QAM	50	0	20.38	20.38	20.59	20.49	20.41			
20	64QAM	50	24	20.43	20.36	20.59	20.49	20.41			
20	64QAM	50	50	20.39	20.19	20.56	20.49	20.30			
20	256QAM	1	0	20.38	20.39	20.57	20.47	20.35	22	3	
20	256QAM	1	0	18.39	18.53	18.53	18.38	18.44			
20	256QAM	1	48	18.45	18.59	18.65	18.46	18.54			
20	256QAM	1	96	18.42	18.39	18.63	18.43	18.38			
20	256QAM	50	0	18.47	18.42	18.57	18.44	18.37			
20	256QAM	50	24	18.38	18.48	18.52	18.49	18.38	20	5	
20	256QAM	50	50	18.57	18.48	18.62	18.51	18.48			
20	256QAM	100	0	18.54	18.42	18.52	18.41	18.51			
Channel				39725 <th>40160<th>40520<th>41068<th>41515<th>Turnup limit (dB)</th><th>MPR (dB)</th><th></th></th></th></th></th>	40160 <th>40520<th>41068<th>41515<th>Turnup limit (dB)</th><th>MPR (dB)</th><th></th></th></th></th>	40520 <th>41068<th>41515<th>Turnup limit (dB)</th><th>MPR (dB)</th><th></th></th></th>	41068 <th>41515<th>Turnup limit (dB)</th><th>MPR (dB)</th><th></th></th>	41515 <th>Turnup limit (dB)</th> <th>MPR (dB)</th> <th></th>	Turnup limit (dB)		
Frequency [MHz]				2503.5 <th>2547.5<th>2583.5<th>2622.5<th>2667.5<th></th><th></th><th></th></th></th></th></th>	2547.5 <th>2583.5<th>2622.5<th>2667.5<th></th><th></th><th></th></th></th></th>	2583.5 <th>2622.5<th>2667.5<th></th><th></th><th></th></th></th>	2622.5 <th>2667.5<th></th><th></th><th></th></th>	2667.5 <th></th> <th></th> <th></th>			
15	QPSK	1	0	23.07	23.06	23.27	23.14	23.08	25	0	
15	QPSK	1	37	23.18	23.12	23.38	23.35	23.08			
15	QPSK	1	74	23.18	23.22	23.18	23.32	23.18			
15	QPSK	36	0	22.19	22.18	22.34	22.22	22.15			
15	QPSK	36	20	22.13	22.15	22.38	22.24	22.18			
15	QPSK	36	36	22.12	22.07	22.18	22.32	22.13	24	1	
15	QPSK	75	0	22.09	22.22	22.34	22.29	22.12			
15	16QAM	1	0	22.08	22.06	22.73	22.07	22.12			
15	16QAM	1	37	22.12	22.19	22.52	22.32	22.28			
15	16QAM	1	74	22.05	22.04	22.19	22.16	22.02			
15	16QAM	36	0	21.05	21.23	21.30	21.33	21.09	23	2	
15	16QAM	36	20	21.08	21.23	21.31	21.26	21.08			
15	16QAM	36	36	21.05	21.04	21.28	21.15	21.04			
15	16QAM	75	0	21.05	21.17	21.32	21.32	21.13			
15	64QAM	1	0	21.08	21.13	21.09	21.09	21.05			
15	64QAM	1	37	21.12	21.23	21.19	21.20	21.14	23	2	
15	64QAM	1	74	21.27	21.17	21.14	21.20	21.07			
15	64QAM	36	0	20.23	20.20	20.45	20.26	20.11			
15	64QAM	36	20	20.24	20.15	20.28	20.27	20.11			
15	64QAM	36	36	20.10	20.18	20.32	20.15	20.00			
15	64QAM	75	0	20.10	20.31	20.28	20.28	20.24	22	3	
15	64QAM	75	0	18.10	18.39	18.27	18.20	18.31			
15	256QAM	1	0	18.25	18.34	18.47	18.37	18.24			
15	256QAM	1	74	18.14	18.18	18.37	18.17	18.23			
15	256QAM	36	0	18.28	18.12	18.40	18.21	18.42			
15	256QAM	36	20	18.28	18.25	18.35	18.35	18.24	20	5	
15	256QAM	36	36	18.38	18.21	18.48	18.28	18.29			
15	256QAM	75	0	18.38	18.27	18.37	18.18	18.22			
Channel				39700	40160	40560	41060	41540	Turnup limit (dB)	MPR (dB)	
Frequency [MHz]				2501	2537 <td>2573</td> <td>2618</td> <td>2663</td> <th></th> <th></th> <th></th>	2573	2618	2663			
10	QPSK	1	0	23.07	23.19	23.49	23.18	23.06	25	0	
10	QPSK	1	25	23.21	23.18	23.43	23.31	23.39			
10	QPSK	1	48	23.08	23.18	23.43	23.18	23.23			
10	QPSK	25	0	22.37	22.38	22.57	22.41	22.33			
10	QPSK	25	12	22.35	22.25	22.72	22.65	22.32			
10	QPSK	25	25	22.28	22.27	22.47	22.35	22.34	24	1	
10	QPSK	50	0	22.23	22.29	22.67	22.45	22.35			
10	16QAM	1	0	22.25	22.18	22.37	22.51	22.11			
10	16QAM	1	25	22.41	22.39	22.55	22.35	22.08			
10	16QAM	1	48	22.48	22.61	22.48	22.28	22.20			
10	16QAM	25	0	21.34	21.43	21.57	21.38	21.32	23	2	
10	16QAM	25	12	21.31	21.21	21.61	21.45	21.42			
10	16QAM	25	25	21.34	21.24	21.43	21.31	21.31			
10	16QAM	50	0	21.22	21.30	21.86	21.40	21.25			
10	64QAM	1	0	21.11	21.07	21.07	21.08	21.10			
10	64QAM	1	25	21.37	21.18	21.23	21.12	21.31	23	2	
10	64QAM	1	48	21.24	21.25	21.25	21.41	21.76			
10	64QAM	25	0	20.35	20.38	20.51	20.52	20.16			
10	64QAM	25	12	20.33	20.31	20.53	20.54	20.18			
10	64QAM	25	25	20.37	20.29	20.42	20.45	20.38			
10	64QAM	50	0	20.26	20.29	20.57	20.39	20.35	22	3	
10	256QAM	1	0	18.25	18.34	18.58	18.20	18.31			
10	256QAM	1	25	18.59	18.43	18.46	18.24	18.26			
10	256QAM	1	48	18.27	18.60	18.35	18.20	18.22			
10	256QAM	25	0	18.52	18.18	18.28	18.18	18.41			
10	256QAM	25	12	18.39	18.32	18.39	18.28	18.36	20	5	
10	256QAM	25	25	18.25	18.18	18.42	18.20	18.16			
10	256QAM	50	0	18.34	18.13	18.34	18.22	18.31			
Channel				39675	40148	40560	41063	41559	Turnup limit (dB)	MPR (dB)	
Frequency [MHz]				2498.5	2542.5	2578.5	2623.5	2668.5			
5	QPSK	1	0	23.07	23.04	23.44	23.18	23.05	25	0	
5	QPSK	1	12	23.25	23.16	23.43	23.39	23.25			
5	QPSK	1	24	23.18	23.01	23.31	23.06	23.15			
5	QPSK	12	0	22.25	22.32	22.51	22.37	22.32			
5	QPSK	12	7	22.35	22.34	22.48	22.42	22.39			
5	QPSK	12	18	22.23	22.26	22.41	22.39	22.33	24	1	
5	QPSK	25	0	22.38	22.28	22.60	22.39	22.28			
5	16QAM	1	0	22.39	22.07	22.53	22.23	22.30			
5	16QAM	1	18	22.24	22.35	22.25	22.07	22.06			
5	16QAM	1	24	22.03	22.22	22.38	22.01	22.30			
5	16QAM	12	0	21.34	21.28	21.53	21.47	21.28	23	2	
5	16QAM	12	7	21.40	21.36	21.49	21.32	21.27			
5	16QAM	12	13	21.37	21.29	21.54	21.28	21.32			
5	16QAM	25	0	21.38	21.36	21.51	21.35	21.44			
5	64QAM	1	0	21.06	21.18	21.34	21.03	21.07	23	2	
5	64QAM	1	18	21.03	21.20	21.26	21.05	21.10			
5	64QAM	1	24	21.01	21.28	21.03	21.62	21.03			
5	64QAM	12	0	20.32	20.34	20.67	20.42	20.31			
5	64QAM	12	13	20.31	20.29	20.51	20.44	20.31			
5	64QAM	25	0	20.32	20.16	20.56	20.42	20.22	22	3	
5	64QAM	25	13	20.31	20.22	20.57	20.43	20.22			
5	64QAM	25	0	20.30	20.16	20.46	20.42	20.11			
5	64QAM	25	13	20.28	20.25	20.46	20.42	20.11			
5	256QAM	1	0	18.28	18.39	18.52	18.35	18.46			
5	256QAM	1	12	18.18	18.30	18.39	18.18	18.34	20	5	
5	256QAM	1	24	18.29	18.16	18.42	18.20	18.16			
5	256QAM	12	0	18.29	18.16	18.42	18.20	18.16			
5	256QAM	12	7	18.23	18.21	18.38	18.21	18.35	20	5	
5	256QAM	12	13	18.33	18.33	18.32	18.35	18.22			
5	256QAM	25	0	18.33	18.33	18.33	18.33	18.22			



Downlink CA Power

Full Power																
ZCC																
Configure		CA Configuration (BCS)	PCC						SCC				Power			
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Inter-Band		CA_2A-26A	Band 2	20M	1880	18900	QPSK	1	0	Band 26	15M	876.5	8865	22.67	22.78	
		CA_5A-38A	Band 5	10M	836.5	20525	QPSK	1	0	Band 38	20M	2595	38000	23.63	23.73	
		CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	23.58	23.73	
		CA_7A-26A	Band 7	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.19	22.29	
		CA_7A-32A	Band 7	20M	2535	21100	QPSK	1	0	Band 32	20M	1474	10140	22.39	22.52	
		CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	23.27	23.35	
		CA_32A-38A	Band 38	20M	2595	38000	QPSK	1	0	Band 32	20M	1474	10140	23.13	23.22	
		CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	22.26	22.31	
Intra-Band	Non-Contiguous	CA_5A-5A	Band 5	10M	836.5	20525	QPSK	1	0	Band 5	5M	891.5	2625	23.49	23.52	
	Contiguous	CA_38C	Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	2599.80	38048	23.73	23.82	
		CA_41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.80	40818	23.71	23.79	
		CA_66B	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.30	66979	23.16	23.20	

CA_66A-66A

3CC		SCC2																	
Configure	CA Configuration (BCS)	PCC						SCC1				SCC2				Power			
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)	
Inter-Band	CA_2A-4A-7A	Band 2	20M	1900	19100	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.66	22.77	
	CA_2A-5A-7A	Band 2	20M	1900	19100	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	22.59	22.77	
	CA_2A-7A-7A	Band 2	20M	1900	19100	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	22.63	22.77	
	CA_2A-7A-38A	Band 2	20M	1900	19100	QPSK	1	0	Band 7	20M	2655	3100	Band 38	20M	2595	38000	22.61	22.77	
	CA_2A-4A-5A	Band 2	20M	1900	19100	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.63	22.77	
	CA_2A-5A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	22.64	22.77	
	CA_2A-7A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	22.67	22.77	
	CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	22.15	22.22	
	CA_4A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 7	20M	2655	3100	22.89	22.93	
	CA_41A-41A-41A	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2506	39750	Band 41	5M	2687.5	41565	24.16	24.19	
	CA_4A-7C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.87	22.93	
	Intra-Band	Contiguous	CA_41D	Band 41	20M	2680	41490	QPSK	1	0	Band 41	20M	2660.2	41292	Band 41	20M	2640.4	41094	24.20

4CC																						
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)
Inter-Band	CA_5A-7C-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	23.65	23.73
	CA_5A-7A-66A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	Band 5M	2197.5	67311	23.66	23.73	
	CA_2A-7C-38A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 38	20M	2595	38000	22.69	22.78
	CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.43	22.52



CA 66B Ant 13												
Combination 15MHz±5MHz (75RB±25RB)												
POC Channel	SOC Channel	Modulation	POC		SIC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset						
130407	130410	QPSK	1	74	1	0	1	0	Full	24.11	24.50	
130402	130415	QPSK	1	74	1	0	1	0	Full	24.25	24.50	
130409	130404	QPSK	1	74	1	0	1	0	F4.00	24.00	24.50	
130407	130410	QPSK	1	74	1	0	1	0	D8.2	14.21	16.00	
130402	130415	QPSK	1	74	1	0	1	0	D8.2	14.20	16.00	
130409	130404	QPSK	1	74	1	0	1	0	D8.2	14.11	16.00	
130407	130410	QPSK	1	74	1	0	1	0	D8.3	13.91	15.50	
130402	130415	QPSK	1	74	1	0	1	0	D8.3	13.88	15.50	
130409	130404	QPSK	1	0	1	24	1	0	D8.3	13.74	15.50	
130407	130410	QPSK	1	74	1	0	1	0	D8.4	22.71	24.50	
130402	130415	QPSK	1	74	1	0	1	0	D8.4	22.66	24.50	
130409	130404	QPSK	1	0	1	24	1	0	D8.4	22.69	24.50	
130407	130410	QPSK	1	74	1	0	1	0	D8.5	21.67	23.50	
130402	130415	QPSK	1	74	1	0	1	0	D8.5	21.64	23.50	
130409	130404	QPSK	1	0	1	24	1	0	D8.5	21.62	23.50	
130407	130410	QPSK	1	74	1	0	1	0	D8.8	19.26	21.00	
130402	130415	QPSK	1	74	1	0	1	0	D8.8	19.17	21.00	
130409	130404	QPSK	1	0	1	24	1	0	D8.8	19.15	21.00	
130407	130410	QPSK	1	74	1	0	1	0	D8.9	19.20	21.00	
130402	130415	QPSK	1	74	1	0	1	0	D8.9	19.17	21.00	
130409	130404	QPSK	1	0	1	24	1	0	D8.9	19.15	21.00	
130407	130410	QPSK	1	74	1	0	1	0	D8.10	19.20	21.00	
130402	130415	QPSK	1	74	1	0	1	0	D8.10	19.17	21.00	
130409	130404	QPSK	1	0	1	24	1	0	D8.10	19.15	21.00	

CA 66B_Ant 31											
Combination 15MHz±5MHz (75RB-25RB)											
PCB Channel	SCC Channel	Modulation	PCB		SCC		Total RB Size	Target MPE Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	74	1	0	1	0	Full	24.05	24.50
132322	132415	QPSK	1	74	1	0	1	0	Full	24.03	24.50
132697	132504	QPSK	1	74	1	0	1	0	Full	24.52	24.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 2	22.50	24.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 2	22.52	24.50
132697	132504	QPSK	1	74	1	0	1	0	DSB 2	22.48	24.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 3	22.50	24.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 3	22.52	24.50
132697	132504	QPSK	1	74	1	0	24	0	DSB 3	22.48	24.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 4	22.50	24.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 4	20.48	22.50
132697	132504	QPSK	1	0	1	24	1	0	DSB 4	20.43	22.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 5	22.55	22.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 5	20.46	22.50
132697	132504	QPSK	1	0	1	24	1	0	DSB 5	20.42	22.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 8	19.74	21.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 8	19.68	21.50
132697	132504	QPSK	1	0	1	24	1	0	DSB 8	19.80	21.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 9	19.66	21.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 9	19.68	21.50
132697	132504	QPSK	1	0	1	24	1	0	DSB 9	19.75	21.50
132047	132140	QPSK	1	74	1	0	1	0	DSB 10	19.69	21.50
132322	132415	QPSK	1	74	1	0	1	0	DSB 10	19.68	21.50
132697	132504	QPSK	1	0	1	24	1	0	DSB 10	19.74	21.50

CA 6E8_Ant 1											
Combination 15MHz±5MHz (75RB±25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
13047	130140	QPSK	1	74	1	0	1	0	Full	24.29	24.50
13032	130415	QPSK	1	74	1	0	1	0	Full	24.44	24.50
13067	130504	QPSK	1	74	1	0	1	0	Full	24.43	24.50
13047	130140	QPSK	1	74	1	0	1	0	DR2	19.73	21.50
13032	130415	QPSK	1	74	1	0	1	0	DR2	19.81	21.50
13067	130504	QPSK	1	74	1	0	1	0	DR2	19.76	21.50
13047	130140	QPSK	1	74	1	0	1	0	DR3	18.72	20.50
13032	130415	QPSK	1	74	1	0	1	0	DR3	18.81	20.50
13067	130504	QPSK	1	0	1	24	1	0	DR3	19.77	20.50
13047	130140	QPSK	1	74	1	0	1	0	DR4	22.50	24.50
13032	130415	QPSK	1	74	1	0	1	0	DR4	22.75	24.50
13067	130504	QPSK	1	0	1	24	1	0	DR4	22.75	24.50
13047	130140	QPSK	1	74	1	0	1	0	DR5	20.81	22.50
13032	130415	QPSK	1	74	1	0	1	0	DR5	20.86	22.50
13067	130504	QPSK	1	0	1	24	1	0	DR5	20.80	22.50
13047	130140	QPSK	1	74	1	0	1	0	DR6	19.72	21.50
13032	130415	QPSK	1	74	1	0	1	0	DR6	19.83	21.50
13067	130504	QPSK	1	0	1	24	1	0	DR6	19.76	21.50
13047	130140	QPSK	1	74	1	0	1	0	DR9	19.72	21.50
13032	130415	QPSK	1	74	1	0	1	0	DR9	19.83	21.50
13067	130504	QPSK	1	0	1	24	1	0	DR9	19.76	21.50
13047	130140	QPSK	1	74	1	0	1	0	DS10	19.72	21.50
13032	130415	QPSK	1	74	1	0	1	0	DS10	19.83	21.50
13067	130504	QPSK	1	0	1	24	1	0	DS10	19.76	21.50

CA_66C_Ant 13											
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Turn up Power (dBm)	
130372	132270	QPSK	1	99	1	0	1	0	Full	23.00	24.50
130322	130520	QPSK	1	99	1	0	1	0	Full	23.00	24.50
130372	130374	QPSK	1	99	1	0	1	0	Full	23.07	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB2	14.23	16.00
130322	130520	QPSK	1	99	1	0	1	0	DSB2	14.23	16.00
130372	130374	QPSK	1	99	1	0	1	0	DSB2	14.21	16.00
130372	132270	QPSK	1	99	1	0	1	0	DSB3	13.96	15.50
130322	130520	QPSK	1	99	1	0	1	0	DSB3	13.96	15.50
130372	130374	QPSK	1	99	1	0	1	0	DSB3	13.87	15.50
130372	132270	QPSK	1	99	1	0	1	0	DSB4	22.72	24.50
130322	130520	QPSK	1	99	1	0	1	0	DSB4	22.68	24.50
130372	130374	QPSK	1	99	1	0	1	0	DSB4	22.70	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB5	21.79	23.50
130322	130520	QPSK	1	99	1	0	1	0	DSB5	21.73	23.50
130372	130374	QPSK	1	99	1	0	1	0	DSB5	21.75	23.50
130372	132270	QPSK	1	99	1	0	1	0	DSB8	19.24	21.00
130322	130520	QPSK	1	99	1	0	1	0	DSB8	19.21	21.00
130372	130374	QPSK	1	99	1	0	1	0	DSB8	19.22	21.00
130372	132270	QPSK	1	99	1	0	1	0	DSB9	19.31	21.00
130322	130520	QPSK	1	99	1	0	1	0	DSB9	19.24	21.00
130372	130374	QPSK	1	99	1	0	1	0	DSB9	19.26	21.00
130372	132270	QPSK	1	99	1	0	1	0	DSB10	19.29	21.00
130322	130520	QPSK	1	99	1	0	1	0	DSB10	19.23	21.00
130372	130374	QPSK	1	99	1	0	1	0	DSB10	19.25	21.00

CA_66C_Ant 31											
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Turn up Power (dBm)	
130372	132270	QPSK	1	99	1	0	1	0	Full	23.00	24.50
130322	130520	QPSK	1	99	1	0	1	0	Full	22.97	24.50
130372	130374	QPSK	1	99	1	0	1	0	Full	23.00	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB2	22.55	24.50
130322	130520	QPSK	1	99	1	0	1	0	DSB2	22.52	24.50
130372	130374	QPSK	1	99	1	0	1	0	DSB2	22.50	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB3	22.55	24.50
130322	130520	QPSK	1	99	1	0	1	0	DSB3	22.52	24.50
130372	130374	QPSK	1	99	1	0	1	0	DSB3	22.51	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB4	20.64	22.50
130322	130520	QPSK	1	99	1	0	1	0	DSB4	20.65	22.50
130372	130374	QPSK	1	99	1	0	1	0	DSB4	20.59	22.50
130372	132270	QPSK	1	99	1	0	1	0	DSB5	20.61	22.50
130322	130520	QPSK	1	99	1	0	1	0	DSB5	20.63	22.50
130372	130374	QPSK	1	99	1	0	1	0	DSB5	20.59	22.50
130372	132270	QPSK	1	99	1	0	1	0	DSB8	19.83	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB8	19.89	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB8	19.90	21.50
130372	132270	QPSK	1	99	1	0	1	0	DSB9	19.83	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB9	19.86	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB9	19.80	21.50
130372	132270	QPSK	1	99	1	0	1	0	DSB10	19.83	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB10	19.86	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB10	19.80	21.50

CA_66C_Ant 11											
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Turn up Power (dBm)	
130372	132270	QPSK	1	99	1	0	1	0	Full	23.17	24.50
130322	130520	QPSK	1	99	1	0	1	0	Full	23.18	24.50
130372	130374	QPSK	1	99	1	0	1	0	Full	23.30	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB2	19.75	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB2	19.97	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB2	19.82	21.50
130372	132270	QPSK	1	99	1	0	1	0	DSB3	18.63	20.50
130322	130520	QPSK	1	99	1	0	1	0	DSB3	18.81	20.50
130372	130374	QPSK	1	99	1	0	1	0	DSB3	18.87	20.50
130372	132270	QPSK	1	99	1	0	1	0	DSB4	22.71	24.50
130322	130520	QPSK	1	99	1	0	1	0	DSB4	22.78	24.50
130372	130374	QPSK	1	99	1	0	1	0	DSB4	22.75	24.50
130372	132270	QPSK	1	99	1	0	1	0	DSB5	20.96	22.50
130322	130520	QPSK	1	99	1	0	1	0	DSB5	20.98	22.50
130372	130374	QPSK	1	99	1	0	1	0	DSB5	20.84	22.50
130372	132270	QPSK	1	99	1	0	1	0	DSB8	19.82	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB8	19.75	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB8	19.81	21.50
130372	132270	QPSK	1	99	1	0	1	0	DSB9	19.82	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB9	19.75	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB9	19.81	21.50
130372	132270	QPSK	1	99	1	0	1	0	DSB10	19.75	21.50
130322	130520	QPSK	1	99	1	0	1	0	DSB10	19.81	21.50
130372	130374	QPSK	1	99	1	0	1	0	DSB10	19.82	21.50

CA_36C_Ant 13											
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Turn up Power (dBm)	
37850	38048	QPSK	1	99	1	0	1	0	Full	23.37	25.00
37901	38099	QPSK	1	99	1	0	1	0	Full	23.39	25.00
38150	37952	QPSK	1	0	1	99	1	0	Full	23.46	25.00
37850	38048	QPSK	1	99	1	0	1	0	DSB2	13.86	15.50
37901	38099	QPSK	1	99	1	0	1	0	DSB2	13.88	15.50
38150	37952	QPSK	1	0	1	99	1	0	DSB2	13.84	15.50
37850	38048	QPSK	1	99	1	0	1	0	DSB3	12.91	14.50
37901	38099	QPSK	1	99	1	0	1	0	DSB3	12.92	14.50
38150	37952	QPSK	1	0	1	99	1	0	DSB3	12.88	14.50
37850	38048	QPSK	1	99	1	0	1	0	DSB4	21.36	23.00
37901	38099	QPSK	1	99	1	0	1	0	DSB4	21.41	23.00
38150	37952	QPSK	1	0	1	99	1	0	DSB4	21.39	23.00
37850	38048	QPSK	1	99	1	0	1	0	DSB5	20.38	22.00
37901	38099	QPSK	1	99	1	0	1	0	DSB5	20.44	22.00
38150	37952	QPSK	1	0	1	99	1	0	DSB5	20.41	22.00
37850	38048	QPSK	1	99	1	0	1	0	DSB8	16.39	18.00
37901	38099	QPSK	1	99	1	0	1	0	DSB8	16.45	18.00
38150	37952	QPSK	1	0	1	99	1	0	DSB8	16.42	18.00
37850	38048	QPSK	1	99	1	0	1	0	DSB9	16.37	18.00
37901	38099	QPSK	1	99	1	0	1	0	DSB9	16.44	18.00
38150	37952	QPSK	1	0	1	99	1	0	DSB9	16.41	18.00
37850	38048	QPSK	1	99	1	0	1	0	DSB10	16.39	18.00
37901	38099	QPSK	1	99	1	0	1	0	DSB10	16.43	18.00
38150	37952	QPSK	1	0	1	99	1	0	DSB10	16.42	18.00

CA_36C_Ant 31											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	1	0	Full	23.20	25.00
37901	38099	QPSK	1	99	1	0	1	0	Full	23.03	25.00
38150	37952	QPSK	1	0	1	99	1	0	Full	23.13	25.00
37850	38048	QPSK	1	99	1	0	1	0	DSB2	23.17	25.00
37901	38099	QPSK	1	99	1	0	1	0	DSB2	23.05	25.00
38150	37952	QPSK	1	0	1	99	1	0	DSB2	23.08	25.00
37850	38048	QPSK	1	99	1	0	1	0	DSB3	23.12	25.00
37901	38099	QPSK	1	99	1	0	1	0	DSB3	23.02	25.00
38150	37952	QPSK	1	0	1	99	1	0	DSB3	23.08	25.00
37850	38048	QPSK	1	99	1	0	1	0	DSB4	23.14	25.00
37901	38099	QPSK	1	99	1	0	1	0	DSB4	23.08	25.00
38150	37952	QPSK	1	0	1	99	1	0	DSB4	23.07	25.00
37850	38048	QPSK	1	99	1	0	1	0	DSB5	23.13	25.00
37901	38099	QPSK	1	99	1	0	1	0	DSB5	23.01	25.00
38150	37952	QPSK	1	0	1	99	1	0	DSB5	23.05	25.00
37850	38048	QPSK	1	99	1	0	1	0	DSB6	22.87	24.50
37901	38099	QPSK	1	99	1	0	1	0	DSB6	22.82	24.50
38150	37952	QPSK	1	0	1	99	1	0	DSB6	22.84	24.50
37850	38048	QPSK	1	99	1	0	1	0	DSB7	22.82	24.50
37901	38099	QPSK	1	99	1	0	1	0	DSB7	22.81	24.50
38150	37952	QPSK	1	0	1	99	1	0	DSB7	22.86	24.50
37850	38048	QPSK	1	99	1	0	1	0	DSB10	22.84	24.50
37901	38099	QPSK	1	99	1	0	1	0	DSB10	22.80	24.50
38150	37952	QPSK	1	0	1	99	1	0	DSB10	22.83	24.50

CA 41C_Ant 13											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)						Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC		SCC		Total RB Size	Target MPR Level (dB)			
			RB Size	RB offset	RB Size	RB offset					
39750	39648	QPSK	1	99	1	0	1	0	Full	23.60	25.00
40185	40383	QPSK	1	99	1	0	1	0	Full	23.58	25.00
40620	40818	QPSK	1	99	1	0	1	0	Full	23.76	25.00
41055	41253	QPSK	1	99	1	0	1	0	Full	23.75	25.00
41490	41292	QPSK	1	0	1	99	1	0	Full	23.43	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS12	14.30	15.50
40185	40383	QPSK	1	99	1	0	1	0	DS12	14.22	15.50
40620	40818	QPSK	1	99	1	0	1	0	DS12	14.21	15.50
41055	41253	QPSK	1	99	1	0	1	0	DS12	14.28	15.50
41490	41292	QPSK	1	0	1	99	1	0	DS12	13.90	15.50
39750	39648	QPSK	1	99	1	0	1	0	DS13	13.34	14.50
40185	40383	QPSK	1	99	1	0	1	0	DS13	13.30	14.50
40620	40818	QPSK	1	99	1	0	1	0	DS13	13.29	14.50
41055	41253	QPSK	1	99	1	0	1	0	DS13	13.30	14.50
41490	41292	QPSK	1	0	1	99	1	0	DS13	12.96	14.50
39750	39648	QPSK	1	99	1	0	1	0	DS14	20.73	22.00
40185	40383	QPSK	1	99	1	0	1	0	DS14	20.60	22.00
40620	40818	QPSK	1	99	1	0	1	0	DS14	20.65	22.00
41055	41253	QPSK	1	99	1	0	1	0	DS14	20.58	22.00
41490	41292	QPSK	1	0	1	99	1	0	DS14	20.67	22.00
39750	39648	QPSK	1	99	1	0	1	0	DS15	20.76	22.00
40185	40383	QPSK	1	99	1	0	1	0	DS15	20.75	22.00
40620	40818	QPSK	1	99	1	0	1	0	DS15	20.81	22.00
41055	41253	QPSK	1	99	1	0	1	0	DS15	20.74	22.00
41490	41292	QPSK	1	0	1	99	1	0	DS15	20.75	22.00
39750	39648	QPSK	1	99	1	0	1	0	DS18	16.73	18.00
40185	40383	QPSK	1	99	1	0	1	0	DS18	16.72	18.00
40620	40818	QPSK	1	99	1	0	1	0	DS18	16.73	18.00
41055	41253	QPSK	1	99	1	0	1	0	DS18	16.72	18.00
41490	41292	QPSK	1	0	1	99	1	0	DS18	16.47	18.00
39750	39648	QPSK	1	99	1	0	1	0	DS19	16.78	18.00
40185	40383	QPSK	1	99	1	0	1	0	DS19	16.71	18.00
40620	40818	QPSK	1	99	1	0	1	0	DS19	16.71	18.00
41055	41253	QPSK	1	99	1	0	1	0	DS19	16.72	18.00
41490	41292	QPSK	1	0	1	99	1	0	DS19	16.49	18.00
39750	39648	QPSK	1	99	1	0	1	0	DS10	16.76	18.00
40185	40383	QPSK	1	99	1	0	1	0	DS10	16.70	18.00
40620	40818	QPSK	1	99	1	0	1	0	DS10	16.75	18.00
41055	41253	QPSK	1	99	1	0	1	0	DS10	16.76	18.00
41490	41292	QPSK	1	0	1	99	1	0	DS10	16.50	18.00

CA 41C_Ant 31											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)						Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC		SCC		Total RB Size	Target MPR Level (dB)			
			RB Size	RB offset	RB Size	RB offset					
39750	39648	QPSK	1	99	1	0	1	0	Full	23.49	25.00
40185	40383	QPSK	1	99	1	0	1	0	Full	23.24	25.00
40620	40818	QPSK	1	99	1	0	1	0	Full	23.20	25.00
41055	41253	QPSK	1	99	1	0	1	0	Full	23.36	25.00
41490	41292	QPSK	1	0	1	99	1	0	Full	23.20	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS12	23.20	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS12	23.09	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS12	23.08	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS12	23.13	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS12	23.02	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS13	23.17	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS13	23.18	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS13	23.16	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS13	23.23	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS13	23.02	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS14	23.18	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS14	23.09	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS14	23.06	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS14	23.03	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS14	23.02	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS15	23.05	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS15	23.09	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS15	23.08	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS15	23.05	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS15	23.01	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS18	23.14	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS18	23.06	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS18	23.05	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS18	23.05	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS18	23.05	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS19	23.10	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS19	23.06	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS19	23.02	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS19	23.07	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS19	23.04	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS10	23.13	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS10	23.06	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS10	23.03	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS10	23.07	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS10	23.03	25.00

CA 41C_Ant 11											
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)						Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC		SCC		Total RB Size	Target MPR Level (dB)			
			RB Size	RB offset	RB Size	RB offset					
39750	39648	QPSK	1	99	1	0	1	0	Full	24.51	25.00
40185	40383	QPSK	1	99	1	0	1	0	Full	23.37	25.00
40620	40818	QPSK	1	99	1	0	1	0	Full	23.26	25.00
41055	41253	QPSK	1	99	1	0	1	0	Full	23.24	25.00
41490	41292	QPSK	1	0	1	99	1	0	Full	23.24	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS12	20.40	21.50
40185	40383	QPSK	1	99	1	0	1	0	DS12	20.29	21.50
40620	40818	QPSK	1	99	1	0	1	0	DS12	20.13	21.50
41055	41253	QPSK	1	99	1	0	1	0	DS12	20.16	21.50
41490	41292	QPSK	1	0	1	99	1	0	DS12	20.09	21.50
39750	39648	QPSK	1	99	1	0	1	0	DS13	19.41	20.50
40185	40383	QPSK	1	99	1	0	1	0	DS13	19.31	20.50
40620	40818	QPSK	1	99	1	0	1	0	DS13	19.22	20.50
41055	41253	QPSK	1	99	1	0	1	0	DS13	19.15	20.50
41490	41292	QPSK	1	0	1	99	1	0	DS13	19.10	20.50
39750	39648	QPSK	1	99	1	0	1	0	DS14	23.71	25.00
40185	40383	QPSK	1	99	1	0	1	0	DS14	23.29	25.00
40620	40818	QPSK	1	99	1	0	1	0	DS14	23.01	25.00
41055	41253	QPSK	1	99	1	0	1	0	DS14	23.03	25.00
41490	41292	QPSK	1	0	1	99	1	0	DS14	23.06	25.00
39750	39648	QPSK	1	99	1	0	1	0	DS15	20.42	21.50
40185	40383	QPSK	1	99	1	0	1	0	DS15	20.21	21.50
40620	40818	QPSK	1	99	1	0	1	0	DS15	20.15	21.50
41055	41253	QPSK	1	99	1	0	1	0	DS15	20.16	21.50
41490	41292	QPSK	1	0	1	99	1	0	DS15	20.07	21.50
39750	39648	QPSK	1	99	1	0	1	0	DS18	18.99	20.00
40185	40383	QPSK	1	99	1	0	1	0	DS18	18.82	20.00
40620	40818	QPSK	1	99	1	0	1	0	DS18	18.84	20.00
41055	41253	QPSK	1	99	1	0	1	0	DS18	18.86	20.00
41490	41292	QPSK	1	0	1	99	1	0	DS18	18.81	20.00
39750	39648	QPSK	1	99	1	0	1	0	DS19	18.91	20.00
40185	40383	QPSK	1	99	1	0	1	0	DS19	18.85	20.00
40620	40818	QPSK	1	99	1	0	1	0	DS19	18.82	20.00
41055	41253	QPSK	1	99	1	0	1	0	DS19	18.85	20.00
41490	41292	QPSK	1	0	1	99	1	0	DS19	18.82	20.00
39750	39648	QPSK	1	99	1	0	1	0	DS10	18.95	20.00
40185	40383	QPSK	1	99	1	0	1	0	DS10	18.84	20.00
40620	40818	QPSK	1	99	1	0	1	0	DS10	18.86	20.00
41055	41253	QPSK	1	99	1	0	1	0	DS10	18.83	20.00
41490	41292	QPSK	1	0	1	99	1	0	DS10	18.83	20.00



Full&Default Power

n2_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				1860	1880	1900	24.0	0.0	
Frequency (MHz)				372000	376000	380000			
20	Pl2 BPSK	1	1	22.84	22.86	22.84	24.0	0.0	
20	Pl2 BPSK	1	53	22.77	22.85	22.82			
20	Pl2 BPSK	1	104	22.76	22.82	22.77			
20	Pl2 BPSK	50	0	22.28	22.32	22.28	23.5	0.5	
20	Pl2 BPSK	50	28	22.75	22.84	22.74	24.0	0.0	
20	Pl2 BPSK	50	56	22.34	22.32	22.22	23.5	0.5	
20	Pl2 BPSK	100	0	22.28	22.34	22.31			
20	QPSK	1	1	22.85	22.88	22.85			
20	QPSK	1	53	22.77	22.85	22.79	24.0	0.0	
20	QPSK	1	104	22.75	22.83	22.78			
20	QPSK	50	0	22.14	22.16	22.08	23.0	1.0	
20	QPSK	50	28	22.73	22.80	22.76	24.0	0.0	
20	QPSK	50	56	22.05	22.10	22.00	23.0	1.0	
20	QPSK	100	0	22.08	22.12	22.08	23.0	1.0	
20	16QAM	1	1	22.46	22.55	22.54			
20	64QAM	1	1	20.84	20.85	20.78		2.5	
20	256QAM	1	1	18.97	18.98	18.90	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.3	1880	1902.5	(dB)		
15	QPSK	1	1	22.76	22.80	22.83	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1865	1880	1905	(dB)		
10	QPSK	1	1	22.50	22.62	22.77	24.0	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1882.5	1880	1907.5	(dB)		
5	QPSK	1	1	22.79	22.81	22.84	24.0	0.0	

n2_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch, F (Freq)	Power Middle Ch, F (Freq)	Power High Ch, F (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	22.79	22.95	22.85	24.5	0.0	
20	Pl2 BPSK	1	53	22.79	22.94	22.86			
20	Pl2 BPSK	1	104	22.83	22.89	22.86			
20	Pl2 BPSK	50	0	22.29	22.44	22.36	24.0	0.5	
20	Pl2 BPSK	50	28	22.73	22.87	22.81	24.5	0.0	
20	Pl2 BPSK	50	56	22.20	22.35	22.25	24.0	0.5	
20	Pl2 BPSK	100	0	22.29	22.39	22.36			
20	QPSK	1	1	22.88	23.04	23.02			
20	QPSK	1	53	22.81	22.95	22.91	24.5	0.0	
20	QPSK	1	104	22.78	22.87	22.86			
20	QPSK	50	0	21.86	22.12	22.02	23.5	1.0	
20	QPSK	50	28	22.83	22.89	22.87	24.5	0.0	
20	QPSK	50	56	22.09	22.19	22.12	23.5	1.0	
20	QPSK	100	0	22.03	22.15	22.05	23.5	1.0	
20	16QAM	1	1	22.37	22.53	22.48			
20	64QAM	1	1	20.75	20.84	20.77		2.5	
20	256QAM	1	1	18.93	19.02	18.95	20.0	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.3	1880	1902.5	(dBm)		
15	QPSK	1	1	22.79	22.90	22.79	24.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	(dBm)		
10	QPSK	1	1	22.70	22.83	22.79	24.5	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1907.5	(dBm)		
5	QPSK	1	1	22.75	22.87	22.77	24.5	0.0	

n5_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				166800	167300	167800	25.0	0.0	
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	24.01	24.05	24.04	25.0	0.0	
20	Pl2 BPSK	1	53	23.90	23.96	23.95			
20	Pl2 BPSK	1	104	23.76	23.84	23.78			
20	Pl2 BPSK	50	0	23.40	23.44	23.34	24.5	0.5	
20	Pl2 BPSK	50	28	23.93	23.98	23.88	25.0	0.0	
20	Pl2 BPSK	50	56	23.38	23.44	23.38	24.5	0.5	
20	Pl2 BPSK	100	0	23.34	23.42	23.34			
20	QPSK	1	1	24.12	24.14	24.08			
20	QPSK	1	53	24.06	24.08	23.99	25.0	0.0	
20	QPSK	1	104	23.90	23.93	23.86			
20	QPSK	50	0	23.20	23.26	23.17	24.0	1.0	
20	QPSK	50	28	23.93	23.98	23.92	25.0	0.0	
20	QPSK	50	56	23.20	23.25	23.21	24.0	1.0	
20	QPSK	100	0	23.30	23.35	23.33	24.0	1.0	
20	16QAM	1	1	23.63	23.71	23.66			
20	64QAM	1	1	21.98	22.03	21.94		2.5	
20	256QAM	1	1	20.11	20.16	20.13	20.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.3	836.3	841.3	(dB)		
15	QPSK	1	1	24.09	24.11	24.02	25.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826	836.5	844	(dB)		
10	QPSK	1	1	24.03	24.07	24.06	25.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	(dB)		
5	QPSK	1	1	23.95	23.98	23.94	25.0	0.0	

n5_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dbm)	MPR (db)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.06	24.14	24.12	25.5	0.0	
20	PI2 BPSK	1	53	23.93	24.01	23.96			
20	PI2 BPSK	1	104	23.85	23.91	23.90			
20	PI2 BPSK	50	0	23.94	23.43	23.42	25.0	0.5	
20	PI2 BPSK	50	26	23.79	23.96	23.89	25.5	0.0	
20	PI2 BPSK	50	56	23.25	23.40	23.33	25.0	0.5	
20	PI2 BPSK	100	0	23.43	23.91	23.46			
20	QPSK	1	1	24.16	24.19	24.11			
20	QPSK	1	53	23.92	24.02	23.93	25.5	0.0	
20	QPSK	1	104	23.77	23.91	23.83			
20	QPSK	50	0	23.09	23.24	23.18	24.5	1.0	
20	QPSK	50	26	23.97	24.03	24.00	25.5	0.0	
20	QPSK	50	56	23.08	23.22	23.15	24.5	1.0	
20	QPSK	100	0	23.19	23.29	23.27	24.5	1.0	
20	16QAM	1	1	23.43	23.63	23.53	24.5	1.0	
20	64QAM	1	1	21.92	22.02	21.98	23.0	2.5	
20	256QAM	1	1	19.97	20.16	20.07	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dbm)	MPR (db)	
15	QPSK	1	1	23.15	23.25	23.13	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dbm)	MPR (db)	
10	QPSK	1	1	23.80	23.95	23.87	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dbm)	MPR (db)	
5	QPSK	1	1	23.88	23.95	23.80	25.5	0.0	

n7_Ant 11									
BW [MHz]	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	PI2 BPSK	1	1	22.65	22.75	22.69	24.0	0.0	
40	PI2 BPSK	1	108	22.63	22.72	22.67			
40	PI2 BPSK	1	214	22.43	22.48	22.47			
40	PI2 BPSK	108	0	22.23	22.26	22.22	23.5	0.5	
40	PI2 BPSK	108	54	22.65	22.70	22.69	24.0	0.0	
40	PI2 BPSK	108	108	22.15	22.17	22.09	23.5	0.5	
40	PI2 BPSK	216	0	22.03	22.13	22.09	24.0	0.0	
40	QPSK	1	1	22.85	22.89	22.88			
40	QPSK	1	108	22.80	22.82	22.72			
40	QPSK	1	214	22.74	22.80	22.75	23.0	1.0	
40	QPSK	108	0	21.97	22.03	21.96			
40	QPSK	108	54	22.50	22.60	22.55	24.0	0.0	
40	QPSK	108	108	21.92	21.95	21.93	23.0	1.0	
40	QPSK	216	0	22.05	22.09	22.08	23.0	1.0	
40	16QAM	1	1	22.26	22.26	22.32			
40	16QAM	1	1	20.71	20.80	20.77	21.5	2.5	
40	256QAM	1	1	18.85	18.93	18.92	18.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.15	22.25	22.23	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	2512.5	2535	2557.5	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.82	22.80	22.80	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.84	22.84	22.86	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.81	22.85	22.86	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.77	22.80	22.79	24.0	0.0	

n7_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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	23.12	23.22	23.15	24.5	0.0	
40	PI2 BPSK	1	108	23.15	23.24	23.17			
40	PI2 BPSK	1	214	23.02	23.20	23.13			
40	PI2 BPSK	108	0	22.69	22.77	22.71	24.0	0.5	
40	PI2 BPSK	108	54	23.09	23.16	23.14	24.5	0.0	
40	PI2 BPSK	108	108	22.52	22.71	22.68	24.0	0.5	
40	PI2 BPSK	216	0	22.53	22.70	22.60			
40	QPSK	1	1	23.24	23.28	23.20			
40	QPSK	1	108	23.18	23.22	23.17	24.5	0.0	
40	QPSK	1	214	23.13	23.24	23.23			
40	QPSK	108	0	22.40	22.54	22.46	23.5	1.0	
40	QPSK	108	54	23.10	23.19	23.15	24.5	0.0	
40	QPSK	108	108	22.39	22.57	22.51	23.5	1.0	
40	QPSK	216	0	22.46	22.54	22.48	23.5	1.0	
40	16QAM	1	1	22.77	22.82	22.73			
40	16QAM	1	1	21.12	21.18	21.15	22.0	2.5	
40	256QAM	1	1	19.30	19.35	19.31	20.0	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.15	23.25	23.25	24.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.20	23.23	23.17	24.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.13	23.17	23.14	24.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.15	23.25	23.22	24.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.12	23.21	23.12	24.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.19	23.14	23.16	24.5	0.0	

n7_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				50500	50700	51000	24.5	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	23.02	23.06	23.03	24.5	0.0	
40	PI2 BPSK	1	108	22.90	23.03	23.00			
40	PI2 BPSK	1	214	22.91	23.02	23.00			
40	PI2 BPSK	108	0	22.39	22.48	22.44	24.0	0.5	
40	PI2 BPSK	108	54	22.85	22.89	22.86	24.5	0.0	
40	PI2 BPSK	108	108	22.32	22.45	22.37	24.0	0.5	
40	PI2 BPSK	216	0	22.36	22.40	22.38			
40	QPSK	1	1	23.17	23.25	23.19			
40	QPSK	1	108	22.89	23.02	22.96	24.5	0.0	
40	QPSK	1	214	22.88	23.01	22.93	23.5	1.0	
40	QPSK	108	0	22.94	22.13	22.65			
40	QPSK	108	54	22.95	22.88	22.77			
40	QPSK	108	108	22.02	22.22	22.12	23.5	1.0	
40	QPSK	216	0	22.96	22.18	22.14	23.5	1.0	
40	16QAM	1	1	22.48	22.83	22.57			
40	64QAM	1	1	20.91	21.07	20.98		2.5	
40	256QAM	1	1	19.03	19.19	19.11	20.0	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	23.02	22.99	23.01	24.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	25.12	2535	2557.5	24.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	23.01	22.96	23.00	24.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	23.02	22.91	22.98	24.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	22.94	22.86	22.92	24.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
5	QPSK	1	1	23.01	22.98	22.96	24.5	0.0	

n26_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				164800	166300	167800	25.0	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.92	23.95	23.87	25.0	0.0	
20	PI2 BPSK	1	53	23.93	23.96	23.89			
20	PI2 BPSK	1	104	23.82	23.90	23.85			
20	PI2 BPSK	50	0	23.39	23.47	23.44	24.5	0.5	
20	PI2 BPSK	50	28	23.88	23.96	23.89	25.0	0.0	
20	PI2 BPSK	50	56	23.34	23.39	23.36	24.5	0.5	
20	PI2 BPSK	100	0	23.28	23.37	23.31			
20	QPSK	1	1	23.95	24.18	23.94			
20	QPSK	1	53	23.91	23.94	23.92	25.0	0.0	
20	QPSK	1	104	23.89	23.96	23.90	24.0	1.0	
20	QPSK	50	0	23.21	23.22	23.17			
20	QPSK	50	28	23.92	23.95	23.93			
20	QPSK	50	56	23.15	23.18	23.07	24.0	1.0	
20	QPSK	100	0	23.16	23.20	23.10	24.0	1.0	
20	16QAM	1	1	23.39	23.28	23.36			
20	64QAM	1	1	21.79	21.88	21.86		2.5	
20	256QAM	1	1	19.97	20.01	20.00	20.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	821.5	831.5	841.5	25.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	819	831.5	844	25.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	816.5	831.5	846.5	25.0	0.0	

n26_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				164000	166300	167800	25.5	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.74	23.90	23.83	25.5	0.0	
20	PI2 BPSK	1	53	23.83	23.94	23.84			
20	PI2 BPSK	1	104	23.75	23.87	23.81			
20	PI2 BPSK	50	0	23.28	23.37	23.28	25.0	0.5	
20	PI2 BPSK	50	28	23.84	23.91	23.85	25.5	0.0	
20	PI2 BPSK	50	56	23.27	23.37	23.28	25.0	0.5	
20	PI2 BPSK	100	0	23.30	23.42	23.40			
20	QPSK	1	1	23.91	23.96	23.93			
20	QPSK	1	53	23.80	23.89	23.86	25.5	0.0	
20	QPSK	1	104	23.79	23.91	23.85	24.5	1.0	
20	QPSK	50	0	23.69	23.19	23.16			
20	QPSK	50	28	23.92	23.94	23.94			
20	QPSK	50	56	23.03	23.18	23.10	24.5	1.0	
20	QPSK	100	0	23.11	23.21	23.17	23.4	1.0	
20	16QAM	1	1	23.43	23.52	23.44			
20	64QAM	1	1	21.84	21.92	21.91		2.5	
20	256QAM	1	1	19.99	20.09	20.07	21.0	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.15	23.15	23.15	25.0	#REF!	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	819	831.5	844	25.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	816.5	831.5	846.5	25.0	#REF!	

n66_Ant 11										
BW [MHz]	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	PI2 BPSK	1	1	23.27	23.30	23.24	24.5	0.0		
40	PI2 BPSK	1	108	23.15	23.21	23.16				
40	PI2 BPSK	1	214	23.15	23.24	23.16				
40	PI2 BPSK	108	0	22.77	22.85	22.77	24.0	0.5		
40	PI2 BPSK	108	54	23.18	23.20	23.16	24.5	0.0		
40	PI2 BPSK	108	108	22.72	22.75	22.74	24.0	0.5		
40	PI2 BPSK	216	0	22.67	22.74	22.68				
40	QPSK	1	1	23.25	23.31	23.25				
40	QPSK	1	108	23.24	23.29	23.20	24.5	0.0		
40	QPSK	1	214	23.20	23.23	23.20	23.9	1.0		
40	QPSK	108	0	22.67	22.69	22.67				
40	QPSK	108	54	23.15	23.23	23.15				
40	QPSK	108	108	22.50	22.53	22.44	23.5	1.0		
40	QPSK	216	0	22.56	22.61	22.51	23.5	1.0		
40	16QAM	1	1	22.98	22.97	22.89				
40	64QAM	1	1	21.24	21.27	21.17				
40	256QAM	1	1	19.53	19.61	19.60	20.0	4.5		
Channel				345500	349000	352000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)		
35	QPSK	1	1	23.21	23.21	23.15	24.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	23.17	23.22	23.10	24.5	0.0		
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	23.22	23.24	23.16	24.5	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	23.24	23.24	23.21	24.5	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	23.23	23.30	23.21	24.5	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	23.21	23.29	23.13	24.5	0.0		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	23.23	23.27	23.20	24.5	0.0		

n66_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				346000	349000	352000				
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	24.19	24.28	24.21	25.0	0.0		
40	PI2 BPSK	1	108	24.16	24.23	24.18				
40	PI2 BPSK	1	214	24.17	24.19	24.14				
40	PI2 BPSK	108	0	23.80	23.86	23.82	24.5	0.5		
40	PI2 BPSK	108	54	24.08	24.16	24.06	25.0	0.0		
40	PI2 BPSK	108	108	23.67	23.71	23.69	24.5	0.5		
40	PI2 BPSK	216	0	23.68	23.75	23.70				
40	QPSK	1	1	24.25	24.32	24.25				
40	QPSK	1	108	24.22	24.29	24.23	25.0	0.0		
40	QPSK	1	214	24.04	24.11	24.03	24.0	1.0		
40	QPSK	108	0	23.67	23.76	23.75				
40	QPSK	108	54	24.25	24.30	24.25				
40	QPSK	108	108	23.38	23.48	23.44	24.0	1.0		
40	QPSK	216	0	23.59	23.66	23.58	24.0	1.0		
40	16QAM	1	1	23.88	23.88	23.91				
40	64QAM	1	1	22.23	22.32	22.30				
40	256QAM	1	1	20.48	20.49	20.46	20.5	4.5		
Channel				345500	349000	352000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)		
35	QPSK	1	1	24.22	24.23	24.24	25.0	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	24.15	24.22	24.18	25.0	0.0		
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	24.15	24.25	24.22	25.0	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	24.14	24.27	24.18	25.0	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	24.18	24.29	24.20	25.0	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	24.22	24.30	24.24	25.0	0.0		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	24.17	24.31	24.22	25.0	0.0		

n66_Ant 31										
BW [MHz]	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	PI2 BPSK	1	1	24.32	24.34	24.25	25.0	0.0		
40	PI2 BPSK	1	108	24.17	24.27	24.16				
40	PI2 BPSK	1	214	24.07	24.15	23.99				
40	PI2 BPSK	108	0	23.84	23.88	23.80	24.5	0.5		
40	PI2 BPSK	108	54	24.08	24.18	24.03	25.0	0.0		
40	PI2 BPSK	108	108	23.66	23.71	23.64	24.5	0.5		
40	PI2 BPSK	216	0	23.71	23.78	23.65				
40	QPSK	1	1	24.47	24.48	24.37				
40	QPSK	1	108	24.25	24.32	24.24	25.0	0.0		
40	QPSK	1	214	24.17	24.27	24.12	24.0	1.0		
40	QPSK	108	0	23.48	23.49	23.46				
40	QPSK	108	54	24.15	24.24	24.15				
40	QPSK	108	108	23.38	23.47	23.29	24.0	1.0		
40	QPSK	216	0	23.48	23.50	23.42	24.0	1.0		
40	16QAM	1	1	23.99	23.94	23.86				
40	64QAM	1	1	22.18	22.21	22.13				
40	256QAM	1	1	20.45	20.47	20.35	20.5	4.5		
Channel				345500	349000	352000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1727.5	1745	1762.5				
35	QPSK	1	1	24.13	24.24	24.10	25.0	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	24.04	24.18	24.05	25.0	0.0		
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1722.5	1745	1767.5				
25	QPSK	1	1	24.05	24.17	24.09	25.0	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	24.08	24.15	24.01	25.0	0.0		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	24.12	24.18	24.05	24.0	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	24.08	24.20	24.01	25.0	0.0		
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	24.27	24.19	24.01	25.0	0.0		



n38_Ant 11									
BW (MHz)	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)				516004	516000	516996			
				2560.02	2565	2569.98			
40	Pl2 BPSK	1	1	23.74	23.82	23.75			
40	Pl2 BPSK	1		23.68	23.76	23.70	25.0		0.0
40	Pl2 BPSK	1	104	23.81	23.82	23.77			
40	Pl2 BPSK	50	0	23.14	23.20	23.18	24.5		0.5
40	Pl2 BPSK	50	28	23.89	23.75	23.65	25.0		
40	Pl2 BPSK	50	56	23.14	23.19	23.15			
40	Pl2 BPSK	100	0	23.17	23.24	23.23	24.5		0.5
40	QPSK	1	1	23.50	23.52	23.51			
40	QPSK	1	53	23.85	23.65	23.61	25.0		
40	QPSK	1	104	23.83	23.56	23.55			
40	QPSK	50	0	22.75	22.74	22.73			
40	QPSK	50	28	23.74	23.65	23.62	25.0		0.0
40	QPSK	50	56	22.75	22.73	22.63			
40	QPSK	100	0	22.72	22.77	22.75	24.0		1.0
40	16QAM	1	1	23.07	23.15	23.14	24.0		1.0
40	64QAM	1	1	21.99	22.02	21.95	22.5		2.5
40	256QAM	1	1	19.70	19.71	19.66	20.5		4.5
Channel									
Frequency (MHz)				516801	516900	520998			
30	QPSK	1	1	23.82	23.83	23.85	25.0		0.0
Channel									
Frequency (MHz)				516900	516900	522000			
20	QPSK	1	1	23.79	23.82	23.85	25.0		0.0
Channel									
Frequency (MHz)				516900	516900	522998			
15	QPSK	1	1	23.82	23.83	23.78	25.0		0.0
Channel									
Frequency (MHz)				515004	516900	522998			
10	QPSK	1	1	23.83	23.82	23.80	25.0		0.0
Channel									
Frequency (MHz)				514500	516900	523500			
5	QPSK	1	1	23.84	23.86	23.87	25.0		0.0

n38_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)				516004	516000	516996			
				2560.02	2565	2569.98			
40	Pl2 BPSK	1	1	23.90	23.91	23.85			
40	Pl2 BPSK	1	53	23.72	23.82	23.67	25.5		0.0
40	Pl2 BPSK	1	104	23.89	23.90	23.82			
40	Pl2 BPSK	50	0	23.19	23.26	23.14	25.0		0.5
40	Pl2 BPSK	50	28	23.78	23.81	23.68	25.5		0.0
40	Pl2 BPSK	50	56	23.18	23.23	23.17			
40	Pl2 BPSK	100	0	23.30	23.31	23.28	25.0		0.5
40	QPSK	1	1	23.93	23.97	23.95			
40	QPSK	1	53	23.88	23.95	23.87	25.5		0.0
40	QPSK	1	104	23.90	23.96	23.92			
40	QPSK	50	0	22.72	22.74	22.65			
40	QPSK	50	28	23.74	23.74	23.65	25.5		0.0
40	QPSK	50	56	22.68	22.71	22.65			
40	QPSK	100	0	22.71	22.76	22.74	24.5		1.0
40	16QAM	1	1	23.35	23.43	23.39	24.5		1.0
40	64QAM	1	1	22.12	22.14	22.09	23.0		2.5
40	256QAM	1	1	19.88	19.93	19.85	21.0		4.5
Channel									
Frequency (MHz)				517002	516900	520998			
30	QPSK	1	1	23.63	23.62	23.67	25.5		0.0
Channel									
Frequency (MHz)				516900	516900	522000			
20	QPSK	1	1	23.78	23.73	23.85	25.5		0.0
Channel									
Frequency (MHz)				517002	516900	522998			
15	QPSK	1	1	23.87	23.91	23.85	25.5		0.0
Channel									
Frequency (MHz)				515004	516900	522998			
10	QPSK	1	1	23.82	23.77	23.83	25.5		0.0
Channel									
Frequency (MHz)				514500	516900	523500			
5	QPSK	1	1	23.86	23.89	23.84	25.5		0.0

n38_Ant 31									
BW (MHz)	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)				516004	516000	516996			
				2560.02	2565	2569.98			
40	Pl2 BPSK	1	1	24.04	24.18	24.10			
40	Pl2 BPSK	1	53	24.01	24.07	24.06	25.5		0.0
40	Pl2 BPSK	1	104	24.06	24.12	24.09			
40	Pl2 BPSK	50	0	23.38	23.51	23.47	25.0		0.5
40	Pl2 BPSK	50	28	23.83	24.03	23.93	25.5		0.0
40	Pl2 BPSK	50	56	23.55	23.59	23.57			
40	Pl2 BPSK	100	0	23.45	23.54	23.47	25.0		0.5
40	QPSK	1	1	24.18	24.24	24.21			
40	QPSK	1	53	24.08	24.16	24.12	25.5		0.0
40	QPSK	1	104	24.16	24.22	24.17			
40	QPSK	50	0	23.11	23.12	23.03			
40	QPSK	50	28	23.61	23.62	23.61	25.5		0.0
40	QPSK	50	56	23.00	23.08	23.05			
40	QPSK	100	0	22.75	22.80	22.74	24.5		1.0
40	16QAM	1	1	22.67	22.75	22.68	24.5		1.0
40	64QAM	1	1	21.41	21.46	21.40	23.0		2.5
40	256QAM	1	1	20.20	20.25	20.24	21.0		4.5
Channel									
Frequency (MHz)				517002	516900	520998			
30	QPSK	1	1	24.00	24.00	23.99	25.5		0.0
Channel									
Frequency (MHz)				516900	516900	522000			
20	QPSK	1	1	23.96	24.03	23.99	25.5		0.0
Channel									
Frequency (MHz)				517002	516900	522998			
15	QPSK	1	1	23.97	24.06	24.02	25.5		0.0
Channel									
Frequency (MHz)				515004	516900	522998			
10	QPSK	1	1	23.95	24.04	24.02	25.5		0.0
Channel									
Frequency (MHz)				514500	516900	523500			
5	QPSK	1	1	23.94	23.98	24.00	25.5		0.0



n41_Ant 11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (MHz)	Power Middle Ch. / Freq. (MHz)	Power High Ch. / Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	2560.02	2560.98	2560			
100	P12 BPSK	1	137	24.67	24.82	24.72	26.0		0.0
100	P12 BPSK	1	271	24.77	24.88	24.78			
100	P12 BPSK	135	0	24.11	24.23	24.14	25.5		0.5
100	P12 BPSK	135	69	24.58	24.73	24.63	26.0		0.0
100	P12 BPSK	135	138	24.03	24.18	24.08	25.5		0.5
100	P12 BPSK	270	0	24.03	24.19	24.07			
100	QPSK	1	1	24.70	24.83	24.80			
100	QPSK	1	137	24.73	24.85	24.76	26.0		0.0
100	QPSK	1	271	24.60	24.75	24.66			
100	QPSK	135	0	23.96	23.70	23.59			
100	QPSK	135	69	23.50	23.71	23.61	26.0		0.0
100	QPSK	135	138	23.60	23.73	23.59			
100	QPSK	270	0	23.51	23.65	23.52	25.0		1.0
100	16QAM	1	1	23.77	23.91	23.75	25.0		1.0
100	64QAM	1	1	23.21	23.36	23.19	23.5		2.5
100	256QAM	1	1	20.94	20.98	20.93	21.5		4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.67	24.81	24.74	26.0		0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.71	24.83	24.78	26.0		0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.73	24.88	24.69	26.0		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.72	24.83	24.72	26.0		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.72	24.83	24.78	26.0		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.68	24.82	24.75	26.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.65	24.84	24.79	26.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.67	24.92	24.79	26.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.72	24.87	24.78	26.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.67	24.92	24.79	26.0		0.0

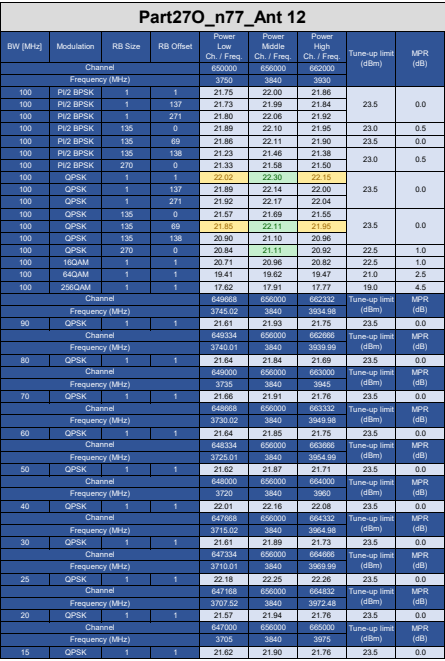
n41_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	256.02	256.99	256.00			
100	P12 BPSK	1	137	24.50	24.53	24.55	26.5	0.0	
100	P12 BPSK	1	271	24.60	24.77	24.66			
100	P12 BPSK	135	0	24.03	24.11	24.01	26.0	0.5	
100	P12 BPSK	135	69	24.50	24.56	24.51	26.5	0.0	
100	P12 BPSK	135	138	24.03	24.06	24.00	26.0	0.5	
100	P12 BPSK	270	0	24.00	24.08	24.02			
100	QPSK	1	1	24.65	24.81	24.68			
100	QPSK	1	137	24.59	24.69	24.60	26.5	0.0	
100	QPSK	1	271	24.55	24.70	24.58			
100	QPSK	135	0	23.35	23.53	23.42			
100	QPSK	135	69	23.54	23.60	23.51	26.5	0.0	
100	QPSK	135	138	23.29	23.44	23.39			
100	QPSK	270	0	23.53	23.55	23.51	25.5	1.0	
100	16QAM	1	1	23.42	23.49	23.47	25.5	1.0	
100	64QAM	1	1	23.44	23.49	23.48	24.0	2.5	
100	256QAM	1	1	20.93	21.15	20.99	22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.63	24.78	24.69	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.60	24.76	24.58	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.55	24.75	24.65	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.60	24.74	24.62	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.58	24.73	24.64	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.60	24.78	24.61	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.62	24.77	24.68	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.59	24.77	24.63	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.63	24.76	24.68	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.59	24.74	24.59	26.5	0.0	

n41_Ant 31									
BW [MHz]	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	P12 BPSK	1	1	256.02	256.09	256.00			
100	P12 BPSK	1	137	24.79	24.87	24.78	26.5		0.0
100	P12 BPSK	1	271	24.86	24.92	24.91			
100	P12 BPSK	135	0	24.18	24.19	24.13	26.0		0.5
100	P12 BPSK	135	69	24.78	24.79	24.72	26.5		0.0
100	P12 BPSK	135	138	24.19	24.23	24.20	26.0		0.5
100	P12 BPSK	270	0	24.12	24.21	24.22			
100	QPSK	1	1	24.82	25.03	24.98			
100	QPSK	1	137	24.87	24.92	24.85	26.5		0.0
100	QPSK	1	271	24.90	25.02	24.95			
100	QPSK	135	0	23.64	23.70	23.69			
100	QPSK	135	69	23.63	23.71	23.65	26.5		0.0
100	QPSK	135	138	23.66	23.75	23.74			
100	QPSK	270	0	23.61	23.67	23.65	25.5		1.0
100	16QAM	1	1	24.15	24.19	24.16	25.5		1.0
100	64QAM	1	1	23.02	23.07	23.04	24.0		2.5
100	256QAM	1	1	21.40	21.46	21.37	22.0		4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.87	24.97	24.87	26.5		0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.87	24.97	24.82	26.5		0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.84	24.91	24.93	26.5		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.91	24.97	24.95	26.5		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.91	24.97	24.97	26.5		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.86	25.01	24.94	26.5		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.88	25.00	24.93	26.5		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.84	24.93	24.93	26.5		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.81	24.98	24.90	26.5		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.89	24.96	24.86	26.5		0.0

Part27Q_n77_Ant 11									
BW [MHz]	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	P12 BPSK	1	1		23.12				
100	P12 BPSK	1	137		22.98		24.5	0.0	
100	P12 BPSK	1	271		23.02				
100	P12 BPSK	135	0		22.33		24.0	0.5	
100	P12 BPSK	135	69		22.86		24.5	0.0	
100	P12 BPSK	135	138		22.41		24.0	0.5	
100	P12 BPSK	270	0		22.28				
100	QPSK	1	1		23.51				
100	QPSK	1	137		23.41		24.5	0.0	
100	QPSK	1	271		22.18				
100	QPSK	135	0		22.15		24.5	0.0	
100	QPSK	135	69		23.15				
100	QPSK	135	138		22.26				
100	QPSK	270	0		22.05		23.5	1.0	
100	16QAM	1	1		22.38		23.5	1.0	
100	64QAM	1	1		20.84		22.0	2.5	
100	256QAM	1	1		19.08		20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	
				3499.88	3499.88	3504.88	(dBm)	(dB)	
				23.01	23.02	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632608	633332	634000	Tune-up limit (dBm)	MPR	
				3480.02	3499.98	3510	(dBm)	(dB)	
				22.89	22.90	23.01	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633332	633666	Tune-up limit (dBm)	MPR	
				3485.01	3499.98	3514.88	(dBm)	(dB)	
				22.93	22.98	23.01	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632060	633332	633666	Tune-up limit (dBm)	MPR	
				3480	3499.98	3518.99	(dBm)	(dB)	
				22.96	22.98	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631688	633332	635000	Tune-up limit (dBm)	MPR	
				3475.02	3499.98	3525	(dBm)	(dB)	
				22.97	22.99	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR	
				3470.01	3499.98	3529.88	(dBm)	(dB)	
				23.42	23.48	23.50	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR	
				3465	3499.98	3534.99	(dBm)	(dB)	
				22.90	22.95	23.02	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630908	633332	636000	Tune-up limit (dBm)	MPR	
				3460.02	3499.98	3540	(dBm)	(dB)	
				23.25	23.33	23.35	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630500	633332	636166	Tune-up limit (dBm)	MPR	
				3457.5	3499.98	3542.49	(dBm)	(dB)	
				22.93	22.95	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR	
				3465.01	3499.98	3544.88	(dBm)	(dB)	
				22.95	22.94	22.95	24.5	0.0	

Part27Q_n77_Ant 11									
BW [MHz]	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	P12 BPSK	1	1	67000	666000	662000			
100	P12 BPSK	1	137	22.76	22.84	22.84			
100	P12 BPSK	1	271	22.69	22.84	22.91	24.5	0.0	
100	P12 BPSK	1	271	22.99	22.98	22.90			
100	P12 BPSK	135	0	22.05	22.31	22.34	24.0	0.5	
100	P12 BPSK	135	69	22.59	22.85	22.86	24.5	0.0	
100	P12 BPSK	135	138	22.26	22.31	22.29	24.0	0.5	
100	P12 BPSK	270	0	22.08	22.24	22.10			
100	QPSK	1	1	23.01	23.12	23.03			
100	QPSK	1	137	22.82	22.98	22.88	24.5	0.0	
100	QPSK	1	271	22.95	23.06	22.95			
100	QPSK	135	0	21.57	21.74	21.62	24.5	0.0	
100	QPSK	135	69	22.55	22.84	22.78	24.5	0.0	
100	QPSK	135	138	21.59	21.73	21.72			
100	QPSK	270	0	21.52	21.75	21.71	23.5	1.0	
100	16QAM	1	1	21.52	21.87	22.04	23.5	1.0	
100	64QAM	1	1	20.24	20.63	20.87	22.0	2.5	
100	256QAM	1	1	18.63	18.97	19.17	20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	
				3743.02	3840	3934.98	(dBm)	(dB)	
				22.81	22.84	22.88	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646934	650000	662666	Tune-up limit (dBm)	MPR	
				3740.01	3840	3939.99	(dBm)	(dB)	
				22.82	22.85	22.89	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	646800	650000	663000	Tune-up limit (dBm)	MPR	
				3735.01	3840	3944.99	(dBm)	(dB)	
				22.78	22.83	22.74	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	646868	650000	663332	Tune-up limit (dBm)	MPR	
				3730.02	3840	3949.98	(dBm)	(dB)	
				22.84	22.82	22.84	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	646800	650000	663000	Tune-up limit (dBm)	MPR	
				3725.01	3840	3949.99	(dBm)	(dB)	
				22.82	22.85	22.89	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	646800	650000	663000	Tune-up limit (dBm)	MPR	
				3720.01	3840	3949.99	(dBm)	(dB)	
				23.06	23.10	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	646868	650000	663332	Tune-up limit (dBm)	MPR	
				3715.02	3840	3949.98	(dBm)	(dB)	
				22.77	22.84	22.82	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	664666	Tune-up limit (dBm)	MPR	
				3710.01	3840	3969.99	(dBm)	(dB)	
				23.04	23.11	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647168	650000	664832	Tune-up limit (dBm)	MPR	
				3707.52	3840	3972.48	(dBm)	(dB)	
				22.93	23.03	22.83	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647100	650000	665000	Tune-up limit (dBm)	MPR	
				3705	3840	3975	(dBm)	(dB)	
				22.81	23.02	22.79	24.5	0.0	

Part27Q_n77_Ant 12									
BW [MHz]	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	P12 BPSK	1	1		3499.18				
100	P12 BPSK	1	137		21.04		23.5	0.0	
100	P12 BPSK	1	271		21.94				
100	P12 BPSK	135	9		21.62		23.0	0.5	
100	P12 BPSK	135	69		21.75		23.5	0.0	
100	P12 BPSK	135	138		21.69		23.0	0.5	
100	P12 BPSK	270	0		21.69				
100	QPSK	1	1		22.58				
100	QPSK	1	137		22.13		23.5	0.0	
100	QPSK	1	271		22.34				
100	QPSK	135	9		21.54				
100	QPSK	135	69		22.08		23.5	0.0	
100	QPSK	135	138		21.58				
100	QPSK	270	0		21.18		22.5	1.0	
100	16QAM	1	1		21.18		22.5	1.0	
100	64QAM	1	1		19.63		21.0	2.5	
100	256QAM	1	1		18.05		19.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63332	63366	19.0	14.0	MPR (dB)
90	QPSK	1	22	22.05	22.14	22.10	23.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63068	63332	63400	19.0	14.0	MPR (dB)
90	QPSK	1	1	3490.02	3499.18	3510	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.04	22.11	22.11	23.5	0.0	
80	QPSK	1	1	63334	63332	63432	19.0	14.0	MPR (dB)
80	QPSK	1	1	3485.01	3499.18	3514.08	23.5	0.0	
70	QPSK	1	1	22.03	22.16	22.02	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63000	63332	63396	19.0	14.0	MPR (dB)
70	QPSK	1	1	3480	3499.18	3519.89	23.5	0.0	
60	QPSK	1	1	22.05	22.09	22.11	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63168	63332	63500	19.0	14.0	MPR (dB)
60	QPSK	1	1	3474.02	3499.18	3525	23.5	0.0	
50	QPSK	1	1	22.08	22.14	22.06	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63134	63332	63532	19.0	14.0	MPR (dB)
50	QPSK	1	1	3470.01	3499.18	3529.98	23.5	0.0	
40	QPSK	1	1	22.24	22.40	22.42	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63200	63332	63596	19.0	14.0	MPR (dB)
40	QPSK	1	1	3465	3499.18	3534.89	23.5	0.0	
30	QPSK	1	1	22.13	22.09	22.03	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	63068	63332	63600	19.0	14.0	MPR (dB)
30	QPSK	1	1	3455	3499.18	3540	23.5	0.0	
25	QPSK	1	1	22.58	22.51	22.54	23.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	63500	63332	63816	19.0	14.0	MPR (dB)
25	QPSK	1	1	3457.5	3499.18	3542.49	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.11	22.09	22.12	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.05	22.09	22.09	23.5	0.0	



Part27Q_n77_Ant 23								
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								
Frequency (MHz)								
100	PV2 BPSK	1	137	21.53	635332			
100	PV2 BPSK	1	137	21.53	3489.98			
100	PV2 BPSK	1	131	21.67	635332		23.0	0.0
100	PV2 BPSK	135	0	21.00	635332		22.5	0.5
100	PV2 BPSK	135	69	21.54	635332		23.0	0.0
100	PV2 BPSK	135	138	21.67	635332		22.5	0.5
100	PV2 BPSK	270	0	21.53	635332			
100	QPSK	1	1	21.72	635332			
100	QPSK	1	137	21.58	635332		23.0	0.0
100	QPSK	1	271	21.62	635332			
100	QPSK	135	0	20.39	635332			
100	QPSK	135	69	21.54	635332		23.0	0.0
100	QPSK	135	138	20.47	635332		23.0	0.0
100	QPSK	270	0	20.51	635332		23.0	1.0
100	16QAM	1	1	20.03	635332		22.0	1.0
100	64QAM	1	1	19.58	635332		20.5	2.5
100	256QAM	1	1	17.20	635332		18.5	4.5
Channel								
90	QPSK	1	1	63200	635332	635890	Turn-up limit (dBm)	LPR (dB)
90	QPSK	1	1	3495	3499.98	3504.99	23.0	0.0
90	QPSK	1	1	21.57	21.61	21.60	23.0	0.0
Channel								
90	QPSK	1	1	632688	635332	634000	Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495.02	3499.98	3505	23.0	0.0
90	QPSK	1	1	21.50	21.57	21.57	23.0	0.0
Channel								
70	QPSK	1	1	632354	635332	634322	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3485.01	3499.98	3514.98	23.0	0.0
70	QPSK	1	1	21.56	21.58	21.52	23.0	0.0
Channel								
70	QPSK	1	1	632200	635332	635050	Turn-up limit (dBm)	LPR (dB)
70	QPSK	1	1	3480	3499.98	3519.99	23.0	0.0
60	QPSK	1	1	21.58	21.59	21.56	23.0	0.0
Channel								
60	QPSK	1	1	631668	635332	635000	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3475.02	3499.98	3525	23.0	0.0
50	QPSK	1	1	21.54	21.53	21.53	23.0	0.0
Channel								
50	QPSK	1	1	631334	635332	635332	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3470.01	3499.98	3529.98	23.0	0.0
40	QPSK	1	1	21.56	21.60	21.59	23.0	0.0
Channel								
40	QPSK	1	1	631000	635332	635550	Turn-up limit (dBm)	LPR (dB)
40	QPSK	1	1	3465	3499.98	3534.99	23.0	0.0
30	QPSK	1	1	21.58	21.60	21.59	23.0	0.0
Channel								
30	QPSK	1	1	630668	635332	636000	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3460.00	3499.98	3540	23.0	0.0
25	QPSK	1	1	21.67	21.71	21.70	23.0	0.0
Channel								
25	QPSK	1	1	630500	635332	636166	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3457.5	3499.98	3542.49	23.0	0.0
20	QPSK	1	1	21.51	21.56	21.55	23.0	0.0
Channel								
20	QPSK	1	1	630334	635332	635332	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3455.01	3499.98	3544.98	23.0	0.0
15	QPSK	1	1	21.51	21.54	21.54	23.0	0.0

Part270_n77_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq.	Power Level Ch / Freq.	Power Level Ch / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)									
100	P12 BPSK	1	1	21.09	21.70	21.69			
100	P12 BPSK	1	137	21.03	21.71	21.65	23.0	0.0	
100	P12 BPSK	1	231	21.05	21.72	21.69			
100	P12 BPSK	135	0	20.58	21.12	21.09	22.5	0.0	
100	P12 BPSK	135	69	21.08	21.67	21.62	23.0	0.0	
100	P12 BPSK	135	136	20.51	21.06	21.00	22.5	0.5	
100	P12 BPSK	270	0	20.55	21.07	21.05			
100	QPSK	1	1	21.13	22.13	22.07			
100	QPSK	1	137	21.09	21.73	21.68	23.0	0.0	
100	QPSK	1	231	21.11	21.78	21.65			
100	QPSK	135	0	19.94	20.54	20.47			
100	QPSK	135	69	21.08	21.60	21.45	23.0	0.0	
100	QPSK	135	136	18.95	20.35	20.35			
100	QPSK	270	0	20.04	20.56	20.56			
100	16QAM	1	1	20.04	20.75	20.74	22.0	1.0	
100	64QAM	1	1	18.65	19.30	19.31	20.5	2.5	
100	256QAM	1	1	18.99	17.83	17.81	18.5	4.5	
Channel				3745.02	3800	3934.98			
Frequency (MHz)									
90	QPSK	1	1	21.07	21.71	21.70	23.0	0.0	
Channel				648734	656000	662096	Time-up limit	MPR	
Frequency (MHz)				3745.01	3800	3935.99	(dBm)	(dB)	
80	QPSK	1	1	21.04	21.70	21.70	23.0	0.0	
Channel				648900	656000	663000	Time-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	21.07	21.78	21.74	23.0	0.0	
Channel				648900	656000	664332	Time-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	21.05	21.79	21.77	23.0	0.0	
Channel				648734	656000	663096	Time-up limit	MPR	
Frequency (MHz)				3725.01	3840	3949.99	(dBm)	(dB)	
50	QPSK	1	1	21.09	21.76	21.73	23.0	0.0	
Channel				648900	656000	664000	Time-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	21.53	21.96	21.92	23.0	0.0	
Channel				648900	656000	664332	Time-up limit	MPR	
Frequency (MHz)				3715.02	3840	3964.98	(dBm)	(dB)	
30	QPSK	1	1	21.08	21.78	21.70	23.0	0.0	
Channel				647734	656000	664996	Time-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
25	QPSK	1	1	21.66	22.11	22.06	23.0	0.0	
Channel				647168	656000	664832	Time-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
20	QPSK	1	1	21.07	21.77	21.73	23.0	0.0	
Channel				647200	656000	664500	Time-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
15	QPSK	1	1	21.10	21.72	21.70	23.0	0.0	

Part27Q_n77_Ant 21									
BW (MHz)	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	P22 BPSK	1	1		21.46				
100	P22 BPSK	1	137		21.34		23.0	0.0	
100	P22 BPSK	1	271		21.41				
100	P22 BPSK	135	9		20.77		22.5	0.5	
100	P22 BPSK	135	69		21.35		23.0	0.0	
100	P22 BPSK	135	138		20.84		22.5	0.5	
100	P22 BPSK	270	0		20.81				
100	QPSK	1	1		21.56				
100	QPSK	1	137		21.38		23.0	0.0	
100	QPSK	1	271		21.46				
100	QPSK	135	9		19.87				
100	QPSK	135	69		21.03		23.0	0.0	
100	QPSK	135	138		20.02				
100	QPSK	270	0		20.05		22.0	1.0	
100	16QAM	1	1		20.12		22.0	1.0	
100	64QAM	1	1		18.56		20.5	2.5	
100	256QAM	1	1		17.06		18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633996	Tune-up limit (dBm)	MPR	
				3499.98	3499.98	3504.99	(dB)		
				21.07	21.12	21.11	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	
				3490.02	3499.98	3510	(dB)		
				21.04	21.06	21.08	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632234	633332	634466	Tune-up limit (dBm)	MPR	
				3485.01	3499.98	3514.98	(dB)		
				21.01	21.06	21.00	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR	
				3480	3499.98	3519.99	(dB)		
				21.04	21.07	21.10	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR	
				3475.02	3499.98	3525	(dB)		
				21.02	21.03	21.04	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR	
				3470.01	3499.98	3529.98	(dB)		
				21.55	21.33	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR	
				3465	3499.98	3534.99	(dB)		
				21.03	21.05	21.06	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630988	633332	636000	Tune-up limit (dBm)	MPR	
				3460.02	3499.98	3540	(dB)		
				21.45	21.50	21.46	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630500	633332	636166	Tune-up limit (dBm)	MPR	
				3457.5	3499.98	3542.49	(dB)		
				21.01	21.02	21.01	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR	
				3455.01	3499.98	3544.98	(dB)		
				21.05	21.08	21.07	23.0	0.0	

Part27Q_n77_Ant 21									
BW (MHz)	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	P22 BPSK	1	1	21.07	21.73	21.64			
100	P22 BPSK	1	137	21.26	21.88	21.82	23.0	0.0	
100	P22 BPSK	1	271	21.04	21.63	21.57			
100	P22 BPSK	135	9	20.57	21.27	21.17	22.5	0.5	
100	P22 BPSK	135	69	21.03	21.70	21.61	23.0	0.0	
100	P22 BPSK	135	138	20.58	21.09	21.02	22.5	0.5	
100	P22 BPSK	270	0	20.50	21.15	21.03			
100	QPSK	1	1	21.54	22.21	22.16			
100	QPSK	1	137	21.17	21.82	21.72	23.0	0.0	
100	QPSK	1	271	21.04	21.67	21.57			
100	QPSK	135	9	20.08	20.72	20.60			
100	QPSK	135	69	21.07	21.65	21.55	23.0	0.0	
100	QPSK	135	138	20.12	20.58	20.42			
100	QPSK	270	0	20.03	20.63	20.52	22.0	1.0	
100	16QAM	1	1	20.19	20.62	20.74	22.0	1.0	
100	64QAM	1	1	18.73	19.37	19.29	20.5	2.5	
100	256QAM	1	1	17.11	17.77	17.68	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	
				3545.02	3545	3554.98	(dB)		
				21.04	21.85	21.79	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646334	650000	662666	Tune-up limit (dBm)	MPR	
				3740.01	3840	3939.99	(dB)		
				21.10	21.86	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	646000	650000	663000	Tune-up limit (dBm)	MPR	
				3735	3840	3945	(dB)		
				21.11	21.84	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	645668	650000	663332	Tune-up limit (dBm)	MPR	
				3730.02	3840	3944.98	(dB)		
				21.05	21.90	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	645334	650000	663666	Tune-up limit (dBm)	MPR	
				3725.01	3840	3954.99	(dB)		
				21.03	21.81	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	645000	650000	664000	Tune-up limit (dBm)	MPR	
				3720	3840	3960	(dB)		
				21.25	22.10	22.03	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	644668	650000	664332	Tune-up limit (dBm)	MPR	
				3715.02	3840	3954.98	(dB)		
				21.07	21.89	21.79	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	644334	650000	664666	Tune-up limit (dBm)	MPR	
				3710.01	3840	3959.99	(dB)		
				21.47	22.10	22.13	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	644000	650000	665000	Tune-up limit (dBm)	MPR	
				3707.52	3840	3972.48	(dB)		
				21.05	21.80	21.83	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	643668	650000	665332	Tune-up limit (dBm)	MPR	
				3705	3840	3975	(dB)		
				21.08	21.90	21.82	23.0	0.0	

Part27Q_n78_Ant 11									
BW (MHz)	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)				3693.68					
100	P22 BPSK	1	1	24.96					
100	P22 BPSK	1	137		24.90		26.5	0.0	
100	P22 BPSK	1	271		25.05				
100	P22 BPSK	135	0		24.87		26.0	0.5	
100	P22 BPSK	135	69		24.80		26.5	0.0	
100	P22 BPSK	135	138		24.44		26.0	0.5	
100	P22 BPSK	270	0		24.21				
100	QPSK	1	1	24.96					
100	QPSK	1	137		25.02		26.5	0.0	
100	QPSK	1	271		25.17				
100	QPSK	135	0		23.76				
100	QPSK	135	69		24.82		26.5	0.0	
100	QPSK	135	138		23.90		26.5	0.0	
100	QPSK	270	0		24.74		26.5	1.0	
100	16QAM	1	1		24.54		25.5	1.0	
100	64QAM	1	1		23.31		24.0	2.5	
100	256QAM	1	1		21.18		22.0	4.5	
Channel				63500	63532	63596	Tune-up limit	MPR	
Frequency (MHz)				3496	3499.68	3504.69	(dBm)	(dB)	
90	QPSK	1	1	24.87	24.97	24.98	26.5	0.0	
Channel				63608	63532	63400	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.68	3510	(dBm)	(dB)	
80	QPSK	1	1	24.83	24.95	24.95	26.5	0.0	
Channel				63534	63532	63532	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.68	3514.98	(dBm)	(dB)	
70	QPSK	1	1	24.85	24.97	24.90	26.5	0.0	
Channel				63200	63532	63506	Tune-up limit	MPR	
Frequency (MHz)				3490	3499.68	3519.89	(dBm)	(dB)	
60	QPSK	1	1	24.87	24.97	24.87	26.5	0.0	
Channel				63168	63532	63500	Tune-up limit	MPR	
Frequency (MHz)				3479.02	3499.68	3525	(dBm)	(dB)	
50	QPSK	1	1	24.83	24.92	24.87	26.5	0.0	
Channel				63134	63532	63532	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.68	3529.98	(dBm)	(dB)	
40	QPSK	1	1	25.04	25.10	25.06	26.5	0.0	
Channel				61700	63532	63506	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.68	3534.96	(dBm)	(dB)	
30	QPSK	1	1	24.98	25.06	25.03	26.5	0.0	
Channel				63608	63532	63360	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.68	3500	(dBm)	(dB)	
25	QPSK	1	1	24.96	25.01	24.96	26.5	0.0	
Channel				63500	63532	63616	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.68	3542.49	(dBm)	(dB)	
20	QPSK	1	1	24.79	24.88	24.93	26.5	0.0	
Channel				63534	63532	63532	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.68	3544.98	(dBm)	(dB)	
15	QPSK	1	1	24.94	25.06	25.02	26.5	0.0	



Part270_n78_Ant 11									
BW (MHz)	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	P12 BPSK	1	1	24.58	3750				
100	P12 BPSK	1	137	24.82			26.5		0.0
100	P12 BPSK	1	271	25.22					
100	P12 BPSK	135	0	24.26			26.0		0.5
100	P12 BPSK	135	69	24.82			26.5		0.0
100	P12 BPSK	135	138	24.30			26.0		0.5
100	P12 BPSK	270	0	24.20					
100	QPSK	1	1	23.35	3754				
100	QPSK	1	137	24.95			26.5		0.0
100	QPSK	1	271	24.92					
100	QPSK	135	0	23.67			26.5		0.0
100	QPSK	135	69	23.76					
100	QPSK	135	138	23.75			26.5		0.0
100	QPSK	270	0	23.06			25.5		1.0
100	16QAM	1	1	24.87			25.5		1.0
100	64QAM	1	1	23.23			24.0		2.5
100	256QAM	1	1	21.11			22.0		4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	649688	650000	650332	Tune-up limit (dBm)	MPR	
				3745.02	3750	3754.98	(dBm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR	
				3740.01	3750	3759.99	(dBm)	(dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.54	24.51	24.50	26.5		0.0
				3735	3750	3765	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.53	24.54	24.57	26.5		0.0
				3730.02	3750	3765.98	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.54	24.51	24.52	26.5		0.0
				649334	650000	651666	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.51	24.54	24.56	26.5		0.0
				3725.01	3750	3774.99	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.51	24.54	24.56	26.5		0.0
				649000	650000	652000	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.92	3750	3760	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.19	25.14	25.16	26.5		0.0
				647668	650000	652332	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
0	QPSK	1	1	3715.02	3750	3784.98	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.59	24.53	24.50	26.5		0.0
				647334	650000	652666	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3710.01	3750	3789.99	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.54	24.56	25.01	26.5		0.0
				547168	650000	653832	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3707.52	3750	3792.48	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.55	24.59	24.58	26.5		0.0
				647000	650000	653000	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
5	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
0	QPSK	1	1	24.51	24.59	24.59	26.5		0.0

Part27Q_n78_Ant 12									
BW (MHz)	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	P12 BPSK	1	1	24.13	3499.98				
100	P12 BPSK	1	137	24.17			25.5		0.0
100	P12 BPSK	1	271	24.06					
100	P12 BPSK	135	0	23.52			25.0		0.5
100	P12 BPSK	135	69	24.06			25.5		0.0
100	P12 BPSK	135	138	23.65			25.0		0.5
100	P12 BPSK	270	0	23.56					
100	QPSK	1	1	24.54					
100	QPSK	1	137	24.51			25.5		0.0
100	QPSK	1	271	24.42					
100	QPSK	135	0	23.05			25.5		0.0
100	QPSK	135	69	23.05					
100	QPSK	135	138	23.15			24.5		1.0
100	QPSK	270	0	23.05			24.5		1.0
100	16QAM	1	1	24.02			23.0		2.5
100	64QAM	1	1	22.54			23.0		2.5
100	256QAM	1	1	20.52			21.0		4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.01	24.04	24.00	25.5		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.01	24.04	24.00	25.5		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.02	24.04	24.02	25.5		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.28	24.32	24.36	25.5		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.02	24.06	24.02	25.5		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.45	24.41	24.49	25.5		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.01	24.02	24.06	25.5		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.08	24.07	24.05	25.5		0.0

Part270_n78_Ant 12									
BW [MHz]	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	P12 BPSK	1	1		3750				
100	P12 BPSK	1	137		23.89		25.5		0.0
100	P12 BPSK	1	271		23.52				
100	P12 BPSK	135	0		23.06		25.0		0.5
100	P12 BPSK	135	69		23.56		25.5		0.0
100	P12 BPSK	135	138		23.15		25.0		0.5
100	P12 BPSK	270	0		23.06				
100	QPSK	1	1		23.95				
100	QPSK	1	137		23.71		25.5		0.0
100	QPSK	1	271		23.53				
100	QPSK	135	0		22.15				
100	QPSK	135	69		23.09		25.5		0.0
100	QPSK	135	138		22.43				
100	QPSK	270	0		22.56		24.5		1.0
100	16QAM	1	1		23.28		24.5		1.0
100	64QAM	1	1		22.85		23.0		2.5
100	256QAM	1	1		20.66		21.0		4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	649688	650000	650332	Tune-up limit	MPR	
				3743.02	3750	3754.98	(dBm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650666	Tune-up limit	MPR	
				3740.01	3750.3	3760.29	(dBm)	(dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.58	23.57	23.57	25.5		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.54	23.50	23.57	25.5		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.52	23.58	23.57	25.5		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.80	23.87	23.91	25.5		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.54	23.57	23.55	25.5		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	652636	Tune-up limit	MPR	
				3716.01	3750	3769.99	(dBm)	(dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647168	650000	652832	Tune-up limit	MPR	
				3707.52	3750	3759.48	(dBm)	(dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.58	23.50	23.55	25.5		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.58	23.51	23.52	25.5		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1	1	23.58	23.50	23.52	25.5		0.0
Channel									
Frequency (MHz)									
0	QPSK	1							



Part27Q_n78_Ant 23									
BW (MHz)	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	PI2 BPSK	1	1		22.58				
100	PI2 BPSK	1	137		22.55		24.5	0.0	
100	PI2 BPSK	1	271		22.69				
100	PI2 BPSK	135	0		22.08		24.0	0.5	
100	PI2 BPSK	135	69		22.53		24.5	0.0	
100	PI2 BPSK	135	138		22.04		24.0	0.5	
100	PI2 BPSK	270	0		22.01				
100	QPSK	1	1		22.71				
100	QPSK	1	137		22.67		24.5	0.0	
100	QPSK	1	271		22.66				
100	QPSK	135	0		21.48		24.5	0.0	
100	QPSK	135	69		22.50				
100	QPSK	135	138		21.55				
100	QPSK	270	0		21.50		23.5	1.0	
100	16QAM	1	1		22.38		23.5	1.0	
100	64QAM	1	1		21.53		22.0	2.5	
100	256QAM	1	1		19.82		20.0	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.98	3499.98	3504.99			
90	QPSK	1	1	22.52	22.65	22.51	24.5	0.0	
Channel				630968	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	22.58	22.55	22.57	24.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	22.55	22.61	22.62	24.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3516.99			
60	QPSK	1	1	22.58	22.63	22.66	24.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3479.02	3499.98	3525			
50	QPSK	1	1	22.59	22.64	22.63	24.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	22.80	22.61	22.57	24.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3534.99			
30	QPSK	1	1	22.59	22.50	22.51	24.5	0.0	
Channel				630968	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	22.57	22.70	22.65	24.5	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	22.61	22.60	22.58	24.5	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	22.56	22.52	22.55	24.5	0.0	

Part27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630968					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		22.51				
100	PI2 BPSK	1	137		22.58		24.5	0.0	
100	PI2 BPSK	1	271		22.49				
100	PI2 BPSK	135	0		22.02		24.0	0.5	
100	PI2 BPSK	135	69		22.54		24.5	0.0	
100	PI2 BPSK	135	138		22.22		24.0	0.5	
100	PI2 BPSK	270	0		22.08				
100	QPSK	1	1		23.18				
100	QPSK	1	137		22.78		24.5	0.0	
100	QPSK	1	271		22.69				
100	QPSK	135	0		21.65		24.5	0.0	
100	QPSK	135	69		22.67				
100	QPSK	135	138		21.88				
100	QPSK	270	0		21.68		23.5	1.0	
100	16QAM	1	1		22.52		23.5	1.0	
100	64QAM	1	1		21.73		22.0	2.5	
100	256QAM	1	1		20.00		20.0	4.5	
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.02	3750	3754.98			
90	QPSK	1	1	22.63	22.67	22.69	24.5	0.0	
Channel				646334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.11	3750.1	3760.09			
80	QPSK	1	1	22.63	22.72	22.56	24.5	0.0	
Channel				645900	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3739	3750	3765			
70	QPSK	1	1	22.62	22.60	22.58	24.5	0.0	
Channel				644668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3739.02	3750	3768.98			
60	QPSK	1	1	22.56	22.60	22.71	24.5	0.0	
Channel				644334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	22.61	22.59	22.58	24.5	0.0	
Channel				644000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.87	23.02	23.03	24.5	0.0	
Channel				641668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	22.57	22.66	22.62	24.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3786.99			
25	QPSK	1	1	23.11	23.17	23.15	24.5	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1	22.83	22.54	22.66	24.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	22.51	22.54	22.69	24.5	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	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	PI2 BPSK	1	1		23.18				
100	PI2 BPSK	1	137		23.14		25.0	0.0	
100	PI2 BPSK	1	271		23.12				
100	PI2 BPSK	135	0		22.59		24.5	0.5	
100	PI2 BPSK	135	69		23.13		25.0	0.0	
100	PI2 BPSK	135	138		22.63		24.5	0.5	
100	PI2 BPSK	270	0		22.61				
100	QPSK	1	1		23.42				
100	QPSK	1	137		23.38		25.0	0.0	
100	QPSK	1	271		23.35				
100	QPSK	135	0		22.22		25.0	0.0	
100	QPSK	135	69		22.25				
100	QPSK	135	138		22.29				
100	QPSK	270	0		22.27		24.0	1.0	
100	16QAM	1	1		23.04		24.0	1.0	
100	64QAM	1	1		22.22		22.5	2.5	
100	256QAM	1	1		20.42		20.5	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.98		3504.98	25.0	0.0	
90	QPSK	1	1	23.18	23.02	23.19	25.0	0.0	
Channel				630968	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510.00	25.0	0.0	
80	QPSK	1	1	23.18	23.17	23.18	25.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	25.0	0.0	
70	QPSK	1	1	23.03	23.16	23.03	25.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.00	3499.98	3516.66	25.0	0.0	
60	QPSK	1	1	23.14	23.07	23.05	25.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525.00	25.0	0.0	
50	QPSK	1	1	23.12	23.09	23.14	25.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	25.0	0.0	
40	QPSK	1	1	23.18	23.17	23.15	25.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.00	3499.98	3534.98	25.0	0.0	
30	QPSK	1	1	23.18	23.04	23.15	25.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3560.00	25.0	0.0	
25	QPSK	1	1	23.20	23.15	23.11	25.0	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49	25.0	0.0	
20	QPSK	1	1	23.08	23.18	23.18	25.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98	25.0	0.0	
15	QPSK	1	1	23.17	23.08	23.11	25.0	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630968					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		23.02				
100	PI2 BPSK	1	137		23.11		25.0	0.0	
100	PI2 BPSK	1	271		23.45				
100	PI2 BPSK	135	0		22.53		24.5	0.5	
100	PI2 BPSK	135	69		23.07		25.0	0.0	
100	PI2 BPSK	135	138		22.73		24.5	0.5	
100	PI2 BPSK	270	0		22.58				
100	QPSK	1	1		23.48				
100	QPSK	1	137		23.45		25.0	0.0	
100	QPSK	1	271		23.26				
100	QPSK	135	0		22.13		25.0	0.0	
100	QPSK	135	69		23.24				
100	QPSK	135	138		22.52				
100	QPSK	270	0		22.39		24.0	1.0	
100	16QAM	1	1		22.86		24.0	1.0	
100	64QAM	1	1		22.25		22.5	2.5	
100	256QAM	1	1		20.35		20.5	4.5	
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.02	3750	3754.98	25.0	0.0	
90	QPSK	1	1	23.11	23.09	23.13	25.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3756.99	25.0	0.0	
80	QPSK	1	1	23.07	23.10	23.09	25.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	25.0	0.0	
70	QPSK	1	1	23.06	23.14	23.07	25.0	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3764.98	25.0	0.0	
60	QPSK	1	1	23.07	23.03	23.17	25.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99	25.0	0.0	
50	QPSK	1	1	23.11	23.02	23.10	25.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	25.0	0.0	
40	QPSK	1	1	23.24	23.21	23.26	25.0	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98	25.0	0.0	
30	QPSK	1	1	23.09	23.04	23.04	25.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99	25.0	0.0	
25	QPSK	1	1	23.44	23.40	23.47	25.0	0.0	
Channel				647000	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48	25.0	0.0	
20	QPSK	1	1	23.02	23.06	23.06	25.0	0.0	
Channel				646668	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	25.0	0.0	
15	QPSK	1	1	23.09	23.00	23.09	25.0	0.0	



Reduced Power for DSI 2

n2_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				1600	1600	1600		
20	Pl2 BPSK	1	1	13.73	13.78	13.84	15.0	0.0
20	Pl2 BPSK	1	53	13.61	13.83	13.68		
20	Pl2 BPSK	1	104	13.70	13.75	13.59		
20	Pl2 BPSK	50	0	13.89	13.84	13.75	15.0	0.0
20	Pl2 BPSK	50	28	13.82	13.76	13.63	15.0	0.0
20	Pl2 BPSK	50	56	13.77	13.85	13.76	15.0	0.0
20	Pl2 BPSK	100	0	13.89	13.95	13.81	15.0	0.0
20	QPSK	1	1	13.99	13.99	13.90	15.0	0.0
20	QPSK	1	53	13.72	13.71	13.69		
20	QPSK	1	104	13.68	13.80	13.61		
20	QPSK	50	0	13.95	13.74	13.61	15.0	0.0
20	QPSK	50	28	13.99	13.94	13.92	15.0	0.0
20	QPSK	50	56	13.74	13.85	13.87	15.0	0.0
20	QPSK	100	0	13.77	13.88	13.80	15.0	0.0
20	16QAM	1	1	13.77	13.87	13.87	15.0	0.0
20	64QAM	1	1	13.70	13.67	13.71	15.0	0.0
20	256QAM	1	1	13.82	13.73	13.83	15.0	0.0
Channel				371500	378000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.78	13.79	13.69	15.0	0.0
Channel				371000	378000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1605	1600	1505		
10	QPSK	1	1	13.81	13.76	13.66	15.0	0.0
Channel				370500	378000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1605.5	1680	1607.5		
5	QPSK	1	1	13.73	13.81	13.77	15.0	0.0

n2_Ant 31								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				1600	1600	1600		
20	Pl2 BPSK	1	1	22.79	22.95	22.85	24.5	0.0
20	Pl2 BPSK	1	53	22.79	22.94	22.86		
20	Pl2 BPSK	1	104	22.83	22.89	22.86		
20	Pl2 BPSK	50	0	22.29	22.44	22.36	24.0	0.0
20	Pl2 BPSK	50	28	22.73	22.87	22.81	24.5	0.0
20	Pl2 BPSK	50	56	22.20	22.35	22.25	24.0	0.0
20	Pl2 BPSK	100	0	22.29	22.39	22.30	24.0	0.5
20	QPSK	1	1	22.89	23.04	23.02	24.5	0.0
20	QPSK	1	53	22.81	22.95	22.91		
20	QPSK	1	104	22.78	22.87	22.86		
20	QPSK	50	0	21.96	22.12	22.02	23.5	1.0
20	QPSK	50	28	22.83	22.89	22.87	24.5	0.0
20	QPSK	50	56	22.06	22.19	22.12	23.5	1.0
20	QPSK	100	0	22.03	22.15	22.05	23.5	1.0
20	16QAM	1	1	22.37	22.53	22.46	23.5	1.0
20	64QAM	1	1	20.75	20.84	20.77	22.0	2.5
20	256QAM	1	1	18.93	19.02	18.96	20.0	4.5
Channel				371500	378000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1607.5	1680	1602.5		
15	QPSK	1	1	22.79	22.90	22.79	24.5	0.0
Channel				371000	378000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1605	1600	1505		
10	QPSK	1	1	22.70	22.83	22.75	24.5	0.0
Channel				370500	378000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1605.5	1680	1607.5		
5	QPSK	1	1	22.75	22.87	22.77	24.5	0.0

n5_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				166000	167300	167600		
20	Pl2 BPSK	1	1	19.84	19.74	19.85	21.0	0.0
20	Pl2 BPSK	1	53	19.87	19.86	19.72		
20	Pl2 BPSK	1	104	19.82	19.91	19.83		
20	Pl2 BPSK	50	0	19.78	19.89	19.77	21.0	0.0
20	Pl2 BPSK	50	28	19.71	19.78	19.72	21.0	0.0
20	Pl2 BPSK	50	56	19.84	19.91	19.70	21.0	0.0
20	Pl2 BPSK	100	0	19.76	19.74	19.84	21.0	0.0
20	QPSK	1	1	20.00	20.02	20.06	21.0	0.0
20	QPSK	1	53	19.78	19.84	19.75		
20	QPSK	1	104	19.80	19.87	19.84		
20	QPSK	50	0	19.85	19.79	19.70	21.0	0.0
20	QPSK	50	28	19.92	19.96	19.94	21.0	0.0
20	QPSK	50	56	19.80	19.73	19.81	21.0	0.0
20	QPSK	100	0	19.88	19.90	19.80	21.0	0.0
20	16QAM	1	1	19.80	19.89	19.84	21.0	0.0
20	64QAM	1	1	19.82	19.87	19.75	21.0	0.0
20	256QAM	1	1	19.91	19.96	19.93	20.5	0.5
Channel				166300	167300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.94	19.95	19.79	21.0	0.0
Channel				166000	167300	166000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				830	836.5	844		
10	QPSK	1	1	19.86	19.88	19.75	21.0	0.0
Channel				165300	167300	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.79	19.89	19.86	21.0	0.0

n5_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	838			
20	PQ2 BPSK	1	1	24.05	24.14	24.12			
20	PQ2 BPSK	1	53	23.93	24.01	23.98	25.5	0.0	
20	PQ2 BPSK	1	104	23.85	23.91	23.90			
20	PQ2 BPSK	50	0	23.34	23.43	23.42	25.0	0.5	
20	PQ2 BPSK	50	28	23.75	23.86	23.89	25.5	0.0	
20	PQ2 BPSK	50	56	23.25	23.40	23.33			
20	PQ2 BPSK	100	0	23.43	23.51	23.46	25.0	0.5	
20	QPSK	1	1	24.10	24.19	24.11			
20	QPSK	1	53	23.92	24.02	23.93	25.5	0.0	
20	QPSK	1	104	23.77	23.91	23.83			
20	QPSK	50	0	23.06	23.24	23.16	24.5	1.0	
20	QPSK	50	28	23.61	24.03	24.00	25.5	0.0	
20	QPSK	50	56	23.06	23.22	23.15			
20	QPSK	100	0	23.19	23.29	23.27	24.5	1.0	
20	16QAM	1	1	23.43	23.63	23.53	24.5	1.0	
20	64QAM	1	1	21.92	22.02	21.98	23.0	2.5	
20	256QAM	1	1	19.97	20.10	20.07	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.95	24.00	23.89	25.5	0.0	
Channel				166900	167300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.89	23.97	23.87	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.88	23.95	23.80	25.5	0.0	

n7_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2500	2510	2520			
40	PQ2 BPSK	1	1	17.18	17.31	17.23			
40	PQ2 BPSK	1	108	17.33	17.36	17.19	18.5	0.0	
40	PQ2 BPSK	1	214	17.21	17.27	17.23			
40	PQ2 BPSK	108	0	17.21	17.21	17.34	18.5	0.0	
40	PQ2 BPSK	108	54	17.19	17.23	17.24	18.5	0.0	
40	PQ2 BPSK	108	108	17.22	17.27	17.36	18.5	0.0	
40	PQ2 BPSK	216	0	17.18	17.29	17.26	18.5	0.0	
40	QPSK	1	1	17.26	17.42	17.26			
40	QPSK	1	108	17.26	17.31	17.24	18.5	0.0	
40	QPSK	1	214	17.31	17.21	17.18			
40	QPSK	108	0	17.19	17.27	17.20	18.5	0.0	
40	QPSK	108	54	17.25	17.26	17.34	18.5	0.0	
40	QPSK	108	108	17.21	17.23	17.29	18.5	0.0	
40	QPSK	216	0	17.24	17.29	17.24	18.5	0.0	
40	16QAM	1	1	17.15	17.32	17.31	18.5	0.0	
40	64QAM	1	1	17.29	17.24	17.30	18.5	0.0	
40	256QAM	1	1	17.27	17.21	17.19	18.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2515	2535	2555			
30	QPSK	1	1	17.32	17.18	17.18	18.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2512.5	2535	2557.5			
25	QPSK	1	1	17.29	17.27	17.23	18.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.15	17.13	17.29	18.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2507.5	2535	2562.5			
15	QPSK	1	1	17.13	17.13	17.25	18.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2505	2535	2565			
10	QPSK	1	1	17.19	17.27	17.18	18.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	17.25	17.27	17.17	18.5	0.0	

n7_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				2500	2510	2520			
40	PQ2 BPSK	1	1	12.33	12.31	12.29			
40	PQ2 BPSK	1	108	12.25	12.41	12.30	13.5	0.0	
40	PQ2 BPSK	1	214	12.24	12.22	12.30			
40	PQ2 BPSK	108	0	12.28	12.29	12.32	13.5	0.0	
40	PQ2 BPSK	108	54	12.27	12.32	12.26	13.5	0.0	
40	PQ2 BPSK	108	108	12.18	12.27	12.30	13.5	0.0	
40	PQ2 BPSK	216	0	12.20	12.41	12.20			
40	QPSK	1	1	12.26	12.42	12.40			
40	QPSK	1	108	12.33	12.36	12.24	13.5	0.0	
40	QPSK	1	214	12.34	12.30	12.24			
40	QPSK	108	0	12.20	12.29	12.28	13.5	0.0	
40	QPSK	108	54	12.26	12.38	12.33	13.5	0.0	
40	QPSK	108	108	12.20	12.23	12.30			
40	QPSK	216	0	12.18	12.33	12.29	13.5	0.0	
40	16QAM	1	1	12.27	12.40	12.32	13.5	0.0	
40	64QAM	1	1	12.21	12.36	12.22	13.5	0.0	
40	256QAM	1	1	12.37	12.38	12.24	13.5	0.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2515	2535	2555			
30	QPSK	1	1	12.28	12.34	12.30	13.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2512.5	2535	2557.5			
25	QPSK	1	1	12.32	12.33	12.39	13.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.35	12.29	12.20	13.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2507.5	2535	2562.5			
15	QPSK	1	1	12.13	12.31	12.23	13.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			2505	2535	2565			
10	QPSK	1	1	12.28	12.35	12.37	13.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	12.32	12.30	12.37	13.5	0.0	

n7_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2500	2535	2560			
Frequency (MHz)				23.02	23.06	23.03			
40	PI2 BPSK	1	1	23.02	23.06	23.03		24.5	0.0
40	PI2 BPSK	1	108	22.90	23.03	23.00		24.5	0.0
40	PI2 BPSK	1	214	22.91	23.02	23.00		24.0	0.5
40	PI2 BPSK	108	0	22.39	22.48	22.44		24.0	0.0
40	PI2 BPSK	108	54	22.83	22.89	22.86		24.5	0.0
40	PI2 BPSK	108	108	22.32	22.45	22.37		24.0	0.5
40	PI2 BPSK	216	0	22.35	22.40	22.38		24.0	0.5
40	QPSK	1	1	23.17	23.25	23.19		24.5	0.0
40	QPSK	1	108	22.86	23.02	22.96		24.5	0.0
40	QPSK	1	214	22.88	23.01	22.93		24.5	0.0
40	QPSK	108	0	22.04	22.13	22.05		23.5	1.0
40	QPSK	108	54	22.05	22.08	22.17		24.5	0.0
40	QPSK	108	108	22.02	22.22	22.12		23.5	1.0
40	QPSK	216	0	22.06	22.18	22.14		23.5	1.0
40	16QAM	1	1	22.48	22.63	22.57		23.5	1.0
40	64QAM	1	1	20.91	21.07	20.98		22.0	2.5
40	256QAM	1	1	19.03	19.10	19.11		20.0	4.5
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	23.02	22.99	23.01		24.5	0.0
Channel				50250	50700	51150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.97	22.91	22.98		24.5	0.0
Channel				50200	50700	51200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	23.01	22.95	23.00		24.5	0.0
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.00	22.91	22.98		24.5	0.0
Channel				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.94	22.96	22.92		24.5	0.0
Channel				50050	50700	51350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2492.5	2535	2567.5			
5	QPSK	1	1	23.01	22.98	22.96		24.5	0.0

n26_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				824	831.5	839			
Frequency (MHz)				19.90	19.75	19.86			
20	PI2 BPSK	1	1	19.90	19.75	19.86		21.0	0.0
20	PI2 BPSK	1	53	19.81	19.85	19.89		21.0	0.0
20	PI2 BPSK	1	104	19.80	19.80	19.92		21.0	0.0
20	PI2 BPSK	50	0	19.84	19.83	19.73		21.0	0.0
20	PI2 BPSK	50	28	19.83	19.82	19.79		21.0	0.0
20	PI2 BPSK	50	56	19.80	19.81	19.73		21.0	0.0
20	PI2 BPSK	100	0	19.77	19.83	19.74		21.0	0.0
20	QPSK	1	1	19.85	19.85	19.92		21.0	0.0
20	QPSK	1	53	19.85	19.85	19.74		21.0	0.0
20	QPSK	1	104	19.79	19.80	19.88		21.0	0.0
20	QPSK	50	0	19.78	19.88	19.81		21.0	0.0
20	QPSK	50	28	19.81	19.84	19.85		21.0	0.0
20	QPSK	50	56	19.83	19.77	19.73		21.0	0.0
20	QPSK	100	0	19.77	19.88	19.82		21.0	0.0
20	16QAM	1	1	19.78	19.77	19.84		21.0	0.0
20	64QAM	1	1	19.77	19.85	19.78		21.0	0.0
20	256QAM	1	1	19.70	19.85	19.80		20.5	0.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	19.93	19.89	19.80		21.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	19.84	19.88	19.80		21.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	19.80	19.75	19.73		21.0	0.0

n26_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				824	831.5	839			
Frequency (MHz)				23.74	23.90	23.83			
20	PI2 BPSK	1	1	23.74	23.90	23.83		25.5	0.0
20	PI2 BPSK	1	53	23.83	23.94	23.84		25.5	0.0
20	PI2 BPSK	1	104	23.75	23.87	23.81		25.0	0.5
20	PI2 BPSK	50	0	23.28	23.37	23.28		25.0	0.5
20	PI2 BPSK	50	28	23.84	23.91	23.85		25.5	0.0
20	PI2 BPSK	50	56	23.27	23.37	23.28		25.0	0.5
20	PI2 BPSK	100	0	23.30	23.42	23.40		25.0	0.5
20	QPSK	1	1	23.81	23.96	23.83		25.5	0.0
20	QPSK	1	53	23.80	23.89	23.88		25.5	0.0
20	QPSK	1	104	23.79	23.91	23.85		25.5	0.0
20	QPSK	50	0	23.09	23.19	23.16		24.5	1.0
20	QPSK	50	28	23.85	23.94	23.84		25.5	0.0
20	QPSK	50	56	23.83	23.18	23.10		24.5	1.0
20	QPSK	100	0	23.11	23.21	23.17		24.5	1.0
20	16QAM	1	1	23.43	23.52	23.44		24.5	1.0
20	64QAM	1	1	21.84	21.92	21.81		23.0	2.5
20	256QAM	1	1	19.89	20.09	20.07		21.0	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.80	23.82	23.80		25.5	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	23.72	23.76	23.73		25.5	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	23.71	23.73	23.76		25.5	0.0

n66_Ant 11								
RFW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. 1, Freqs. 345000	Power Level Ch. 2, Freqs. 347500	Power Level Ch. 3, Freqs. 350000	Turn-up limit (dBm)	MPR (dB)
Channel								
40	P2/ BPSK	1	1	18.28	18.33	18.14		
40	P2/ BPSK	1	108	18.13	18.30	18.22	19.5	0.0
40	P2/ BPSK	1	214	18.26	18.20	18.26		
40	P2/ BPSK	108	0	18.28	18.36	18.10	19.5	0.0
40	P2/ BPSK	108	54	18.22	18.36	18.16	19.5	0.0
40	P2/ BPSK	108	108	18.16	18.22	18.22	19.5	0.0
40	P2/ BPSK	216	0	18.26	18.20	18.10	19.5	0.0
40	QPSK	1	1	18.35	18.42	18.20		
40	QPSK	1	108	18.28	18.25	18.22	19.5	0.0
40	QPSK	1	214	18.26	18.28	18.22		
40	QPSK	108	0	18.28	18.32	18.13	19.5	0.0
40	QPSK	108	54	18.31	18.38	18.25	19.5	0.0
40	QPSK	108	108	18.25	18.37	18.08	19.5	0.0
40	QPSK	216	0	18.29	18.32	18.24	19.5	0.0
40	16QAM	1	1	18.18	18.23	18.13	19.5	0.0
40	64QAM	1	1	18.16	18.30	18.10	19.5	0.0
40	256QAM	1	1	18.21	18.32	18.08	19.5	0.0
Channel								
35	QPSK	1	1	17.27	17.45	17.62	19.5	0.0
Channel								
35	QPSK	1	1	18.12	18.25	18.22	19.5	0.0
Channel								
35	QPSK	1	1	18.17	18.37	18.26	19.5	0.0
Channel								
25	QPSK	1	1	18.24	18.30	18.15	19.5	0.0
Channel								
25	QPSK	1	1	18.19	18.32	18.26	19.5	0.0
Channel								
20	QPSK	1	1	18.19	18.32	18.26	19.5	0.0
Channel								
20	QPSK	1	1	18.17	18.41	18.22	19.5	0.0
Channel								
15	QPSK	1	1	18.19	18.22	18.12	19.5	0.0
Channel								
15	QPSK	1	1	18.30	18.00	18.00	19.5	0.0
Channel								
10	QPSK	1	1	17.15	17.45	17.75	19.5	0.0
Channel								
10	QPSK	1	1	18.21	18.36	18.09	19.5	0.0
Channel								
10	QPSK	1	1	18.24	18.20	18.03	19.5	0.0
Channel								
5	QPSK	1	1	17.12	17.45	17.77	19.5	0.0
Channel								
5	QPSK	1	1	18.17	18.26	18.24	19.5	0.0

n66_Ant 13									
RFW (MHz)	Modulation	RB Size	RB Offset	Power Pilot Ch./ Freqs	Power Pilot Ch./ Freqs	Power Pilot Ch./ Freqs	Turn-up limit (dBm)	MPR (dB)	
Channel									
40	P2 PSK	1	1	14.16	14.29	14.29	15.0	0.0	
40	P2 PSK	1	108	14.27	14.31	14.19	15.0	0.0	
40	P2 PSK	1	214	14.14	14.35	14.28	15.0	0.0	
40	P2 PSK	108	0	14.17	14.30	14.36	15.0	0.0	
40	P2 PSK	108	54	14.22	14.29	14.22	15.0	0.0	
40	P2 PSK	108	108	14.30	14.31	14.29	15.0	0.0	
40	P2 PSK	216	0	14.23	14.31	14.20	15.0	0.0	
40	QPSK	1	1	14.35	14.48	14.30	15.0	0.0	
40	QPSK	1	108	14.19	14.42	14.28	15.0	0.0	
40	QPSK	1	214	14.22	14.53	14.30	15.0	0.0	
40	QPSK	108	0	14.21	14.31	14.29	15.0	0.0	
40	QPSK	108	54	15.20	14.45	14.37	15.0	0.0	
40	QPSK	108	108	14.27	14.43	14.34	15.0	0.0	
40	QPSK	216	0	14.27	14.36	14.19	15.0	0.0	
40	16QAM	1	1	14.18	14.31	14.21	15.0	0.0	
40	16QAM	1	108	14.21	14.42	14.20	15.0	0.0	
40	256QAM	1	1	14.22	14.45	14.29	15.0	0.0	
Channel									
35	QPSK	1	1	14.23	14.27	14.31	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.23	14.38	14.19	15.0	0.0	
35	QPSK	108	0	14.25	14.30	14.25	15.0	0.0	
35	QPSK	108	54	14.25	14.27	14.21	15.0	0.0	
35	QPSK	108	108	14.40	14.30	14.30	15.0	0.0	
35	QPSK	216	0	14.27	14.36	14.19	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25	14.30	14.25	15.0	0.0	
35	QPSK	1	214	14.25	14.31	14.25	15.0	0.0	
35	QPSK	1	1	14.19	14.40	14.37	15.0	0.0	
35	QPSK	1	108	14.25					

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
	Channel			346000	346000	350000			
40	QPSK	1	1	24.32	24.34	24.25			
40	QPSK	1	108	24.17	24.27	24.16	25.0	0.0	
40	QPSK	1	214	24.07	24.15	23.99			
40	QPSK	108	0	23.84	23.88	23.80	24.5	0.5	
40	QPSK	108	54	24.08	24.18	24.03	25.0	0.0	
40	QPSK	108	108	23.66	23.64	23.64	24.5	0.5	
40	QPSK	216	0	23.71	23.76	23.65			
40	QPSK	1	1	24.47	24.48	24.37			
40	QPSK	1	108	24.25	24.32	24.24	25.0	0.0	
40	QPSK	1	214	24.17	24.27	24.12			
40	QPSK	108	0	23.46	23.44	23.45	24.0	1.0	
40	QPSK	108	54	24.16	24.24	24.15	25.0	0.0	
40	QPSK	108	108	23.38	23.47	23.29	24.0	1.0	
40	QPSK	216	0	23.48	23.50	23.42			
40	16QAM	1	1	23.90	23.94	23.86	24.0	1.0	
40	16QAM	1	108	23.78	23.71	23.73	23.5	2.0	
40	256QAM	1	1	20.45	20.47	20.35	20.5	4.5	
	Channel			346500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1727.5	1745	1762.5			
35	QPSK	1	1	24.13	24.24	24.10	25.0	0.0	
	Channel			349500	349500	353500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1726	1745	1765			
30	QPSK	1	1	24.04	24.16	24.05	25.0	0.0	
	Channel			344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1719.5	1745	1769.5			
25	QPSK	1	1	24.05	24.17	24.00	25.0	0.0	
	Channel			344000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1720	1745	1770			
20	QPSK	1	1	24.08	24.15	24.01	25.0	0.0	
	Channel			343500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1717.5	1745	1772.5			
15	QPSK	1	1	24.12	24.15	24.05	25.0	0.0	
	Channel			343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1715	1745	1775			
10	QPSK	1	1	24.08	24.20	24.01	25.0	0.0	
	Channel			342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			1712.5	1745	1777.5			
5	QPSK	1	1	24.07	24.19	24.01	25.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				518004	519000	519996					
Frequency (MHz)				2590.02	2595	2599.98					
40	PI2 BPSK	1	1	17.24	17.46	17.34	18.5	0.0			
40	PI2 BPSK	1	53	17.41	17.35	17.21					
40	PI2 BPSK	1	104	17.31	17.32	17.20					
40	PI2 BPSK	50	0	17.28	17.43	17.39	18.5	0.0			
40	PI2 BPSK	50	28	17.25	17.43	17.29	18.5	0.0			
40	PI2 BPSK	50	56	17.34	17.31	17.37	18.5	0.0			
40	PI2 BPSK	100	0	17.25	17.30	17.24	18.5	0.0			
40	QPSK	1	1	17.44	17.49	17.41					
40	QPSK	1	53	17.41	17.41	17.38					
40	QPSK	1	104	17.36	17.43	17.28	18.5	0.0			
40	QPSK	50	0	17.34	17.45	17.20	18.5	0.0			
40	QPSK	50	28	17.32	17.43	17.31					
40	QPSK	50	56	17.27	17.47	17.32					
40	QPSK	100	0	17.35	17.36	17.34	18.5	0.0			
40	16QAM	1	1	17.27	17.35	17.30	18.5	0.0			
40	64QAM	1	1	17.23	17.32	17.37	18.5	0.0			
40	256QAM	1	1	17.29	17.33	17.37	18.5	0.0			
Channel				519102	519100	520998					
Frequency (MHz)				2585.01	2585	2604.99					
30	QPSK	1	1	17.26	17.47	17.35	18.5	0.0			
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2590	2595	2610					
20	QPSK	1	1	17.37	17.30	17.31	18.5	0.0			
Channel				519902	519000	522498	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2577.51	2595	2612.49					
15	QPSK	1	1	17.20	17.39	17.30	18.5	0.0			
Channel				519004	519000	522998	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2575.02	2595	2614.98					
10	QPSK	1	1	17.40	17.40	17.35	18.5	0.0			
Channel				519100	519000	522500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2572.5	2595	2617.5					
5	QPSK	1	1	17.40	17.40	17.30	18.5	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	12.29	12.34	12.30	14.0	0.0	
40	PI2 BPSK	1	53	12.31	12.30	12.22			
40	PI2 BPSK	1	104	12.16	12.36	12.21			
40	PI2 BPSK	50	0	12.29	12.33	12.35	14.0	0.0	
40	PI2 BPSK	50	28	12.27	12.34	12.20	14.0	0.0	
40	PI2 BPSK	50	56	12.15	12.29	12.21	14.0	0.0	
40	PI2 BPSK	100	0	12.19	12.29	12.16	14.0	0.0	
40	QPSK	1	1	12.33	12.41	12.37			
40	QPSK	1	53	12.22	12.37	12.28			
40	QPSK	1	104	12.21	12.22	12.33	14.0	0.0	
40	QPSK	50	0	12.13	12.27	12.33			
40	QPSK	50	28	12.25	12.39	12.20			
40	QPSK	50	56	12.12	12.27	12.19	14.0	0.0	
40	QPSK	100	0	12.23	12.30	12.28	14.0	0.0	
40	16QAM	1	1	12.28	12.23	12.19	14.0	0.0	
40	64QAM	1	1	12.28	12.34	12.27	14.0	0.0	
40	256QAM	1	1	12.24	12.35	12.33	14.0	0.0	
Channel				519102	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2585	2604.99			
30	QPSK	1	1	12.30	12.25	12.17	14.0	0.0	
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	12.24	12.25	12.25	14.0	0.0	
Channel				519902	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	12.14	12.35	12.23	14.0	0.0	
Channel				519004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	12.24	12.31	12.29	14.0	0.0	
Channel				519100	519000	522500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	1	12.15	12.21	12.19	14.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	24.04	24.18	24.10	25.5	0.0	
40	PI2 BPSK	1	53	24.01	24.07	24.06			
40	PI2 BPSK	1	104	24.08	24.12	24.09			
40	PI2 BPSK	50	0	23.38	23.51	23.47	25.0	0.5	
40	PI2 BPSK	50	28	23.83	24.03	23.83	25.5	0.0	
40	PI2 BPSK	50	56	23.55	23.69	23.57	25.0	0.5	
40	PI2 BPSK	100	0	23.45	23.54	23.47	25.5	0.0	
40	QPSK	1	1	24.18	24.24	24.21			
40	QPSK	1	53	24.08	24.16	24.12			
40	QPSK	1	104	24.16	24.22	24.17	25.5	0.0	
40	QPSK	50	0	23.11	23.12	23.03			
40	QPSK	50	28	23.61	23.62	23.60			
40	QPSK	50	56	23.00	23.08	23.05	25.0	0.0	
40	QPSK	100	0	22.75	22.80	22.74	24.5	1.0	
40	16QAM	1	1	22.87	22.75	22.68	24.5	1.0	
40	64QAM	1	1	21.41	21.46	21.40	23.0	2.5	
40	256QAM	1	1	20.20	20.25	20.24	21.0	4.5	
Channel				519102	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2585	2604.99	25.5	0.0	
30	QPSK	1	1	24.00	24.00	23.99	25.5	0.0	
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610	25.5	0.0	
20	QPSK	1	1	23.96	24.03	23.99	25.5	0.0	
Channel				519902	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	25.5	0.0	
15	QPSK	1	1	23.07	24.06	24.02	25.5	0.0	
Channel				519004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	25.5	0.0	
10	QPSK	1	1	23.95	24.04	24.02	25.5	0.0	
Channel				519100	519000	522500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5	25.5	0.0	
5	QPSK	1	1	23.94	23.98	24.00	25.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518698	526000			
Frequency (MHz)				2548.01	2592.99	2540			
100	PI2 BPSK	1	1	17.60	17.38	17.25	18.5	0.0	
100	PI2 BPSK	1	137	17.19	17.33	17.32			
100	PI2 BPSK	1	271	17.30	17.42	17.27	18.5	0.0	
100	PI2 BPSK	135	0	17.25	17.25	17.15			
100	PI2 BPSK	135	69	17.15	17.37	17.28	18.5	0.0	
100	PI2 BPSK	135	138	17.05	17.35	17.21			
100	PI2 BPSK	270	0	17.06	17.24	17.17	18.5	0.0	
100	QPSK	1	1	17.33	17.50	17.37		0.0	
100	QPSK	1	137	17.40	17.38	17.22			
100	QPSK	1	271	17.17	17.40	17.30	18.5	0.0	
100	QPSK	135	0	17.17	17.38	17.19			
100	QPSK	135	69	17.08	17.41	17.29	18.5	0.0	
100	QPSK	135	138	17.18	17.37	17.29			
100	QPSK	270	0	17.28	17.35	17.15	18.5	0.0	
100	16QAM	1	1	17.08	17.24	17.25		0.0	
100	64QAM	1	1	17.22	17.34	17.16	18.5	0.0	
100	256QAM	1	1	17.28	17.35	17.33			
Channel				506002	518698	526000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.88			
90	QPSK	1	1	17.14	17.45	17.26	18.5	0.0	
Channel				507284	518698	526988			
Frequency (MHz)				2638.02	2592.99	2684.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.21	17.29	17.22		18.5	
Channel				506002	518698	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2605			
70	QPSK	1	1	17.23	17.29	17.23	18.5	0.0	
Channel				505200	518698	531986			
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.20	17.33	17.20		18.5	
Channel				506284	518698	532000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.27	17.38	17.34	18.5	0.0	
Channel				503002	518698	534000			
Frequency (MHz)				2516.01	2592.99	2609	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.17	17.42	17.15		18.5	
Channel				502200	518698	534986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.12	17.25	17.20	18.5	0.0	
Channel				501284	518698	535988			
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.16	17.49	17.30		18.5	
Channel				500780	518698	536986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48			
15	QPSK	1	1	17.25	17.32	17.18	18.5	0.0	
Channel				500002	518698	537000			
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	17.07	17.26	17.29		18.5	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518698	526000			
Frequency (MHz)				2548.01	2592.99	2540			
100	PI2 BPSK	1	1	12.68	12.61	12.58	14.5	0.0	
100	PI2 BPSK	1	137	12.50	12.67	12.51			
100	PI2 BPSK	1	271	12.65	12.80	12.62	14.5	0.0	
100	PI2 BPSK	135	0	12.55	12.61	12.66			
100	PI2 BPSK	135	69	12.51	12.84	12.55	14.5	0.0	
100	PI2 BPSK	135	138	12.68	12.60	12.51			
100	PI2 BPSK	270	0	12.57	12.54	12.64	14.5	0.0	
100	QPSK	1	1	12.64	12.62	12.71		0.0	
100	QPSK	1	137	12.60	12.65	12.61			
100	QPSK	1	271	12.57	12.80	12.61	14.5	0.0	
100	QPSK	135	0	12.59	12.77	12.51			
100	QPSK	135	69	12.65	12.69	12.52	14.5	0.0	
100	QPSK	135	138	12.51	12.49	12.57			
100	QPSK	270	0	12.52	12.60	12.51	14.5	0.0	
100	16QAM	1	1	12.53	12.76	12.52		14.5	
100	64QAM	1	1	12.54	12.55	12.51	14.5	0.0	
100	256QAM	1	1	12.56	12.75	12.56			
Channel				506002	518698	526000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.88			
90	QPSK	1	1	12.63	12.78	12.61	14.5	0.0	
Channel				507284	518698	526988			
Frequency (MHz)				2638.02	2592.99	2684.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.66	12.80	12.67		14.5	
Channel				506002	518698	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2605			
70	QPSK	1	1	12.60	12.63	12.59	14.5	0.0	
Channel				505200	518698	531986			
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	12.60	12.81	12.61		14.5	
Channel				506284	518698	532000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	12.55	12.78	12.73	14.5	0.0	
Channel				503002	518698	534000			
Frequency (MHz)				2516.01	2592.99	2609	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	12.50	12.80	12.53		14.5	
Channel				502200	518698	534986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	12.67	12.73	12.73	14.5	0.0	
Channel				501284	518698	535988			
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.66	12.73	12.59		14.5	
Channel				500780	518698	536986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48			
15	QPSK	1	1	12.76	12.81	12.63	14.5	0.0	
Channel				500002	518698	537000			
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	12.73	12.73	12.69		14.5	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518698	526000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	24.79	24.83	24.82	26.5	0.0	
100	PI2 BPSK	1	137	24.79	24.87	24.78			
100	PI2 BPSK	1	271	24.88	24.92	24.91	26.5	0.5	
100	PI2 BPSK	135	0	24.18	24.19	24.13			
100	PI2 BPSK	135	69	24.78	24.79	24.72	26.0	0.5	
100	PI2 BPSK	135	138	24.19	24.23	24.20			
100	PI2 BPSK	270	0	24.12	24.24	24.22	26.0	0.5	
100	QPSK	1	1	24.78	24.83	24.82			
100	QPSK	1	137	24.87	24.92	24.85	26.5	0.0	
100	QPSK	1	271	24.90	25.02	24.95			
100	QPSK	135	0	23.64	23.70	23.69	26.5	0.0	
100	QPSK	135	69	23.63	23.71	23.68			
100	QPSK	135	138	23.66	23.75	23.74	26.5	0.5	
100	QPSK	270	0	23.61	23.67	23.65			
100	16QAM	1	1	24.15	24.16	24.16	25.5	1.0	
100	56QAM	1	1	23.02	23.07	23.04			
100	256QAM	1	1	21.40	21.46	21.37	22.0	4.5	
100	Channel			506000	518698	526998			
Frequency (MHz)				2547.01	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.87	24.97	24.87	26.5	0.0	
Channel				507204	518698	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	26.5	0.0	
80	QPSK	1	1	24.87	24.97	24.92	26.5	0.0	
Channel				506200	518698	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	26.5	0.0	
70	QPSK	1	1	24.84	24.91	24.93	26.5	0.0	
Channel				505200	518698	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526.01	2592.99	2649.98	26.5	0.0	
40	QPSK	1	1	24.91	24.97	24.85	26.5	0.0	
Channel				504204	518698	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	26.5	0.0	
50	QPSK	1	1	24.91	24.97	24.87	26.5	0.0	
Channel				503200	518698	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	26.5	0.0	
40	QPSK	1	1	24.86	25.01	24.94	26.5	0.0	
Channel				502200	518698	523998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.98	2674.98	26.5	0.0	
30	QPSK	1	1	24.89	25.00	24.93	26.5	0.0	
Channel				501204	518698	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	26.5	0.0	
20	QPSK	1	1	24.94	24.95	24.96	26.5	0.0	
Channel				500700	518698	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.05	2598.99	2692.49	26.5	0.0	
15	QPSK	1	1	24.81	24.98	24.90	26.5	0.0	
Channel				500200	518698	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	26.5	0.0	
10	QPSK	1	1	24.89	24.96	24.86	26.5	0.0	



Part27Q_n77_Ant 11									
BW (MHz)	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	Pi2 BPSK	1	1	15.41					
100	Pi2 BPSK	1	137	15.37			17.0	0.0	
100	Pi2 BPSK	1	271	15.34					
100	Pi2 BPSK	135	0	15.26			17.0	0.0	
100	Pi2 BPSK	135	69	15.30			17.0	0.0	
100	Pi2 BPSK	135	138	15.38			17.0	0.0	
100	Pi2 BPSK	270	0	15.30			17.0	0.0	
100	QPSK	1	1	15.52					
100	QPSK	1	137	15.42			17.0	0.0	
100	QPSK	1	271	15.44					
100	QPSK	135	0	15.41					
100	QPSK	135	69	15.47			17.0	0.0	
100	QPSK	135	138	15.40			17.0	0.0	
100	QPSK	270	0	15.35			17.0	0.0	
100	16QAM	1	1	15.53			17.0	0.0	
100	64QAM	1	1	15.28			17.0	0.0	
100	256QAM	1	1	15.40			17.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3499.98	3504.99			
90	QPSK	1	1	15.21	15.39	15.46	17.0	0.0	
Channel				632068	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3499.98	3510			
80	QPSK	1	1	15.22	15.29	15.32	17.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3483.01	3499.98	3514.98			
70	QPSK	1	1	15.32	15.27	15.33	17.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	15.21	15.26	15.30	17.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3505			
50	QPSK	1	1	15.32	15.39	15.31	17.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3528.98			
40	QPSK	1	1	15.40	15.45	15.51	17.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	15.34	15.32	15.37	17.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	15.50	15.50	15.45	17.0	0.0	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.48			
20	QPSK	1	1	15.29	15.16	15.25	17.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
15	QPSK	1	1	15.15	15.15	15.25	17.0	0.0	

Part27Q_n77_Ant 11									
BW (MHz)	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	65600	662000			
100	Pi2 BPSK	1	1	15.21	15.44	15.36			
100	Pi2 BPSK	1	137	15.16	15.41	15.43	17.0	0.0	
100	Pi2 BPSK	1	271	15.38	15.40	15.38			
100	Pi2 BPSK	135	0	15.05	15.28	15.44	17.0	0.0	
100	Pi2 BPSK	135	69	15.05	15.38	15.43	17.0	0.0	
100	Pi2 BPSK	135	138	15.20	15.39	15.27	17.0	0.0	
100	Pi2 BPSK	270	0	15.16	15.39	15.20	17.0	0.0	
100	QPSK	1	1	15.44	15.61	15.21			
100	QPSK	1	137	15.35	15.39	15.27	17.0	0.0	
100	QPSK	1	271	15.06	15.35	15.27			
100	QPSK	135	0	15.29	15.31	15.49			
100	QPSK	135	69	15.10	15.35	15.28	17.0	0.0	
100	QPSK	135	138	15.13	15.44	15.37	17.0	0.0	
100	QPSK	270	0	15.15	15.31	15.30	17.0	0.0	
100	16QAM	1	1	15.01	15.54	15.48	17.0	0.0	
100	64QAM	1	1	15.06	15.52	15.41	17.0	0.0	
100	256QAM	1	1	15.03	15.41	15.29	17.0	0.0	
Channel				649668	650000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	15.28	15.36	15.36	17.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	15.32	15.31	15.31	17.0	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.13	15.25	15.09	17.0	0.0	
Channel				648668	650000	653332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	1	15.44	15.48	15.25	17.0	0.0	
Channel				648334	650000	653666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	15.18	15.37	15.22	17.0	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.08	15.29	15.15	17.0	0.0	
Channel				647668	650000	654332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	1	15.22	15.29	15.20	17.0	0.0	
Channel				647334	650000	654666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
25	QPSK	1	1	15.24	15.41	15.38	17.0	0.0	
Channel				647168	650000	654832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.48			
20	QPSK	1	1	15.30	15.45	15.16	17.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
15	QPSK	1	1	15.15	15.40	15.25	17.0	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	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	Pi2 BPSK	1	1	15.67					
100	Pi2 BPSK	1	137	15.65			17.0		0.0
100	Pi2 BPSK	1	271	15.51					
100	Pi2 BPSK	135	0	15.53			17.0		0.0
100	Pi2 BPSK	135	69	15.59			17.0		0.0
100	Pi2 BPSK	135	138	15.47			17.0		0.0
100	Pi2 BPSK	270	0	15.44			17.0		0.0
100	QPSK	1	1	15.70					
100	QPSK	1	137	15.53			17.0		0.0
100	QPSK	1	271	15.53					
100	QPSK	135	0	15.54			17.0		0.0
100	QPSK	135	69	15.69			17.0		0.0
100	QPSK	135	138	15.54			17.0		0.0
100	QPSK	270	0	15.54			17.0		0.0
100	16QAM	1	1	15.60			17.0		0.0
100	64QAM	1	1	15.53			17.0		0.0
100	256QAM	1	1	15.54			17.0		0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
80	QPSK	1	1	15.65	15.65	15.62	17.0		0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3499.98	3510			
80	QPSK	1	1	15.59	15.62	15.57	17.0		0.0
Channel				632335	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.01	3499.98	3514.98			
70	QPSK	1	1	15.66	15.60	15.62	17.0		0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3440	3499.98	3510.80			
70	QPSK	1	1	15.51	15.54	15.59	17.0		0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	15.70	15.59	15.52	17.0		0.0
Channel				631335	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	15.58	15.65	15.69	17.0		0.0
Channel				631000	633332	635996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3445	3499.98	3534.95			
30	QPSK	1	1	15.65	15.62	15.52	17.0		0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3420.02	3499.98	3540			
25	QPSK	1	1	15.68	15.66	15.60	17.0		0.0
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3415.5	3499.98	3542.49			
20	QPSK	1	1	15.80	15.62	15.68	17.0		0.0
Channel				630000	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3400.01	3499.98	3544.58			
15	QPSK	1	1	15.67	15.66	15.56	17.0		0.0



Part270_n77_Ant 12									
BW (MHz)	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	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.30	15.60	15.48			
100	PI2 BPSK	1	137	15.27	15.47	15.37	17.0	0.0	
100	PI2 BPSK	1	271	15.37	15.68	15.40			
100	PI2 BPSK	135	0	15.26	15.50	15.38	17.0	0.0	
100	PI2 BPSK	135	69	15.31	15.58	15.41	17.0	0.0	
100	PI2 BPSK	135	138	15.38	15.41	15.37			
100	PI2 BPSK	270	0	15.24	15.53	15.38	17.0	0.0	
100	QPSK	1	1	15.37	15.69	15.45			
100	QPSK	1	137	15.32	15.62	15.41	17.0	0.0	
100	QPSK	1	271	15.28	15.57	15.40			
100	QPSK	135	0	15.29	15.44	15.36			
100	QPSK	135	69	15.30	15.55	15.44	17.0	0.0	
100	QPSK	135	138	15.35	15.49	15.28			
100	QPSK	270	0	15.24	15.50	15.38	17.0	0.0	
100	16QAM	1	1	15.29	15.44	15.36	17.0	0.0	
100	64QAM	1	1	15.30	15.37	15.38	17.0	0.0	
100	256QAM	1	1	15.17	15.65	15.46	17.0	0.0	
Channel				65550	65950	66350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	15.14	15.50	15.24	17.0	0.0	
Channel				649334	656000	662666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	15.12	15.45	15.33	17.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.11	15.40	15.27	17.0	0.0	
Channel				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	1	15.26	15.32	15.38	17.0	0.0	
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	15.19	15.38	15.32	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.01	3840	3959.99			
40	QPSK	1	1	15.35	15.39	15.26	17.0	0.0	
Channel				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	1	15.10	15.40	15.23	17.0	0.0	
Channel				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
25	QPSK	1	1	15.26	15.34	15.42	17.0	0.0	
Channel				647188	656000	664832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.48			
20	QPSK	1	1	15.17	15.59	15.28	17.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
15	QPSK	1	1	15.16	15.30	15.23	17.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		3499.98			
Frequency (MHz)						14.60			
100	PI2 BPSK	1	1			14.50			
100	PI2 BPSK	1	137			14.50	16.0	0.0	
100	PI2 BPSK	1	271			14.63			
100	PI2 BPSK	135	0			14.60	16.0	0.0	
100	PI2 BPSK	135	69			14.59	16.0	0.0	
100	PI2 BPSK	135	138			14.49			
100	PI2 BPSK	270	0			14.46	16.0	0.0	
100	QPSK	1	1			14.70			
100	QPSK	1	137			14.58	16.0	0.0	
100	QPSK	1	271			14.65			
100	QPSK	135	0			14.54			
100	QPSK	135	69			14.52	16.0	0.0	
100	QPSK	135	138			14.52			
100	QPSK	270	0			14.50	16.0	0.0	
100	16QAM	1	1			14.55	16.0	0.0	
100	64QAM	1	1			14.51	16.0	0.0	
100	256QAM	1	1			14.46	16.0	0.0	
Channel				633000	633315	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	14.56	14.63	14.60	16.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	14.45	14.55	14.68	16.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	14.01	14.43	14.45	16.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	14.64	14.65	14.51	16.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	14.56	14.55	14.55	16.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	14.34	14.41	14.33	16.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	14.07	14.50	14.48	16.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	14.24	14.40	14.29	16.0	0.0	
Channel				630340	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.15	3499.98	3542.49			
20	QPSK	1	1	14.53	14.64	14.59	16.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	14.61	14.60	14.59	16.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	14.20	14.78	14.72			
100	PI2 BPSK	1	137	14.18	14.69	14.74	16.0	0.0	
100	PI2 BPSK	1	271	14.03	14.69	14.65			
100	PI2 BPSK	135	0	14.06	14.70	14.63	16.0	0.0	
100	PI2 BPSK	135	69	14.15	14.75	14.71	16.0	0.0	
100	PI2 BPSK	135	138	14.11	14.68	14.56	16.0	0.0	
100	PI2 BPSK	270	0	14.10	14.63	14.68	16.0	0.0	
100	QPSK	1	1	14.15	15.02	14.69			
100	QPSK	1	137	14.06	14.75	14.75	16.0	0.0	
100	QPSK	1	271	14.08	14.81	14.79			
100	QPSK	135	0	14.09	14.63	14.68			
100	QPSK	135	69	14.34	14.75	14.91	16.0	0.0	
100	QPSK	135	138	14.18	14.79	14.71			
100	QPSK	270	0	14.16	14.70	14.62	16.0	0.0	
100	16QAM	1	1	14.18	14.70	14.71	16.0	0.0	
100	64QAM	1	1	14.20	14.65	14.77	16.0	0.0	
100	256QAM	1	1	14.19	14.77	14.68	16.0	0.0	
Channel				648666	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3742.02	3840	3934.48	(dBm)	(dB)	
80	QPSK	1	1	14.17	14.73	14.63	16.0	0.0	
Channel				648334	650000	652696	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	14.03	14.85	14.75	16.0	0.0	
Channel				648003	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
80	QPSK	1	1	14.21	14.85	14.72	16.0	0.0	
Channel				648668	650000	653332	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3840	3940.48	(dBm)	(dB)	
80	QPSK	1	1	14.03	14.77	14.79	16.0	0.0	
Channel				648334	650000	653696	Tune-up limit	MPR	
Frequency (MHz)				3732.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	14.17	14.76	14.75	16.0	0.0	
Channel				648000	652000	654000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	14.30	14.73	14.70	16.0	0.0	
Channel				647968	650000	654332	Tune-up limit	MPR	
Frequency (MHz)				3741.02	3840	3954.48	(dBm)	(dB)	
30	QPSK	1	1	14.19	14.77	14.72	16.0	0.0	
Channel				647334	650000	654696	Tune-up limit	MPR	
Frequency (MHz)				3731.01	3840	3963.99	(dBm)	(dB)	
25	QPSK	1	1	14.29	14.84	14.84	16.0	0.0	
Channel				647168	650000	654832	Tune-up limit	MPR	
Frequency (MHz)				3730.52	3840	3972.48	(dBm)	(dB)	
20	QPSK	1	1	14.03	14.91	14.89	16.0	0.0	
Channel				647000	650000	655000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
15	QPSK	1	1	14.10	14.79	14.66	16.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		3499.98			
Frequency (MHz)									
100	PI2 BPSK	1	1	12.46			14.0	0.0	
100	PI2 BPSK	1	137	12.46					
100	PI2 BPSK	1	271	12.37					
100	PI2 BPSK	135	0	12.43			14.0	0.0	0.0
100	PI2 BPSK	135	69	12.45			14.0	0.0	0.0
100	PI2 BPSK	135	138	12.48			14.0	0.0	0.0
100	PI2 BPSK	270	0	12.36			14.0	0.0	0.0
100	QPSK	1	1	12.56			14.0	0.0	0.0
100	QPSK	1	137	12.36			14.0	0.0	0.0
100	QPSK	1	271	12.48			14.0	0.0	0.0
100	QPSK	135	0	12.52			14.0	0.0	0.0
100	QPSK	135	69	12.39			14.0	0.0	0.0
100	QPSK	135	138	12.46			14.0	0.0	0.0
100	QPSK	270	0	12.47			14.0	0.0	0.0
100	16QAM	1	1	12.53			14.0	0.0	0.0
100	64QAM	1	1	12.50			14.0	0.0	0.0
100	256QAM	1	1	12.44			14.0	0.0	0.0
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	12.62	12.16	12.21	14.0	0.0	0.0
Channel				632068	633332	634000	Tune-up limit	MPR	
80	QPSK	1	1	12.03	12.04	12.05	14.0	0.0	0.0
Channel				632234	633332	634332	Tune-up limit	MPR	
70	QPSK	1	1	12.03	12.05	12.06	14.0	0.0	0.0
Frequency (MHz)				3493.01	3499.98	3504.98			
70	QPSK	1	1	12.04	12.07	12.01	14.0	0.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR	
60	QPSK	1	1	12.04	12.17	12.25	14.0	0.0	0.0
Channel				631668	633332	635000	Tune-up limit	MPR	
50	QPSK	1	1	12.09	12.12	12.11	14.0	0.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR	
40	QPSK	1	1	12.11	12.03	12.05	14.0	0.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR	
30	QPSK	1	1	12.10	12.10	12.10	14.0	0.0	0.0
Channel				630668	633332	636000	Tune-up limit	MPR	
25	QPSK	1	1	12.15	12.17	12.15	14.0	0.0	0.0
Channel				630334	633332	636332	Tune-up limit	MPR	
20	QPSK	1	1	12.10	12.15	12.10	14.0	0.0	0.0
Channel				630134	633332	636532	Tune-up limit	MPR	
15	QPSK	1	1	12.08	12.18	12.08	14.0	0.0	0.0

Part27Q_n77_Ant 21										
BW (MHz)	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	PI2 BPSK	1	1	12.15	12.97	12.82		14.0	0.0	
100	PI2 BPSK	1	137	12.34	13.02	12.95				
100	PI2 BPSK	1	271	12.24	12.73	12.70				
100	PI2 BPSK	135	0	12.08	12.84	12.65	14.0	0.0	0.0	
100	PI2 BPSK	135	69	12.26	12.92	12.89	14.0			
100	PI2 BPSK	135	138	12.13	12.65	12.64				
100	PI2 BPSK	270	0	12.14	12.80	12.61		14.0	0.0	
100	QPSK	1	1	12.37	13.07	12.94				
100	QPSK	1	137	12.34	13.01	12.90	14.0			
100	QPSK	1	271	12.28	12.72	12.82		14.0	0.0	
100	QPSK	135	0	12.15	12.89	12.67				
100	QPSK	135	69	12.24	12.74	12.73	14.0			
100	QPSK	135	138	12.34	12.91	12.62		14.0	0.0	
100	QPSK	270	0	12.15	12.70	12.68	14.0			
100	16QAM	1	1	12.12	12.72	12.67	14.0			
100	64QAM	1	1	12.28	12.72	12.68	14.0	0.0	0.0	
100	256QAM	1	1	12.06	12.75	12.76	14.0			
Channel				649968	650000	650332	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3840	3934.98				
90	QPSK	1	1	12.12	12.93	12.98	14.0	0.0		
Channel										
Frequency (MHz)				649334	650000	650666	Tune-up limit	MPR		
80	QPSK	1	1	12.33	13.06	12.97	14.0	0.0		
Channel				649000	650000	650000	Tune-up limit	MPR		
70	QPSK	1	1	12.17	12.80	12.69	14.0	0.0		
Channel				648668	650000	650332	Tune-up limit	MPR		
60	QPSK	1	1	12.20	13.03	12.96	14.0	0.0		
Channel				648334	650000	650332	Tune-up limit	MPR		
50	QPSK	1	1	12.12	13.04	12.91	14.0	0.0		
Channel				648000	650000	650400	Tune-up limit	MPR		
40	QPSK	1	1	12.10	13.01	12.94	14.0	0.0		
Channel				647668	650000	650432	Tune-up limit	MPR		
30	QPSK	1	1	12.32	13.04	12.89	14.0	0.0		
Channel				647334	650000	650466	Tune-up limit	MPR		
25	QPSK	1	1	12.28	12.91	12.97	14.0	0.0		
Channel				647000	650000	650499	Tune-up limit	MPR		
20	QPSK	1	1	12.17	12.97	12.88	14.0	0.0		
Channel				646700	650000	650000	Tune-up limit	MPR		
15	QPSK	1	1	12.25	13.05	12.87	14.0	0.0		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		3499.98			
Frequency (MHz)									
100	PI2 BPSK	1	1	15.51			17.0	0.0	
100	PI2 BPSK	1	137	15.39					
100	PI2 BPSK	1	271	15.57					
100	PI2 BPSK	135	0	15.44			17.0	0.0	
100	PI2 BPSK	135	69	15.35			17.0	0.0	
100	PI2 BPSK	135	138	15.51			17.0	0.0	
100	PI2 BPSK	270	0	15.46			17.0	0.0	
100	QPSK	1	1	15.62			17.0	0.0	
100	QPSK	1	137	15.57					
100	QPSK	1	271	15.52					
100	QPSK	135	0	15.57			17.0	0.0	
100	QPSK	135	69	15.56					
100	QPSK	135	138	15.48					
100	QPSK	270	0	15.42			17.0	0.0	
100	16QAM	1	1	15.41			17.0	0.0	
100	64QAM	1	1	15.38			17.0	0.0	
100	256QAM	1	1	15.48			17.0	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99		(dB)	
90	QPSK	1	1	15.46	15.42	15.43	17.0	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
80	QPSK	1	1	15.41	15.54	15.45	17.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
70	QPSK	1	1	15.41	15.50	15.39	17.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
60	QPSK	1	1	15.39	15.45	15.36	17.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
50	QPSK	1	1	15.43	15.35	15.41	17.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
40	QPSK	1	1	15.59	15.39	15.44	17.0	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
30	QPSK	1	1	15.39	15.39	15.44	17.0	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
25	QPSK	1	1	15.30	15.46	15.54	17.0	0.0	
Channel				630000	633332	636666	Tune-up limit	MPR	
20	QPSK	1	1	15.30	15.46	15.54	17.0	0.0	
Channel				629668	633332	637000	Tune-up limit	MPR	
15	QPSK	1	1	15.42	15.54	15.48	17.0	0.0	

Part270_n78_Ant 11									
BW (MHz)	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	PI2 BPSK	1	1	15.25			17.0	0.0	
100	PI2 BPSK	1	137	15.29					
100	PI2 BPSK	1	271	15.34					
100	PI2 BPSK	135	0	15.22			17.0	0.0	
100	PI2 BPSK	135	69	15.40			17.0	0.0	
100	PI2 BPSK	135	138	15.14			17.0	0.0	
100	PI2 BPSK	270	0	15.16				17.0	0.0
100	QPSK	1	1	15.55				17.0	0.0
100	QPSK	1	137	15.39				17.0	0.0
100	QPSK	1	271	15.27			17.0	0.0	
100	QPSK	135	0	15.34				17.0	0.0
100	QPSK	135	69	15.45			17.0	0.0	
100	QPSK	135	138	15.18			17.0	0.0	
100	QPSK	270	0	15.23			17.0	0.0	
100	16QAM	1	1	15.44			17.0	0.0	
100	64QAM	1	1	15.29			17.0	0.0	
100	256QAM	1	1	15.23			17.0	0.0	
Channel				649968	650000	650032	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	15.20	15.26	15.21	17.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.91	3750	3759.99			
80	QPSK	1	1	15.14	15.29	15.21	17.0	0.0	
Channel				648900	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.33	15.19	15.24	17.0	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	15.32	15.24	15.27	17.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	15.19	15.23	15.34	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.01	3750	3780.99			
40	QPSK	1	1	15.44	15.37	15.34	17.0	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	15.32	15.24	15.27	17.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
25	QPSK	1	1	15.52	15.38	15.49	17.0	0.0	
Channel				647188	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.92	3750	3792.48			
20	QPSK	1	1	15.17	15.39	15.29	17.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	15.20	15.26	15.35	17.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	16.52			17.5	0.0	
100	PI2 BPSK	1	137	16.58					
100	PI2 BPSK	1	271	16.43					
100	PI2 BPSK	135	0	16.53			17.5	0.0	
100	PI2 BPSK	135	69	16.45			17.5	0.0	
100	PI2 BPSK	135	138	16.35			17.5	0.0	
100	PI2 BPSK	270	0	16.39					
100	QPSK	1	1	16.50					
100	QPSK	1	137	16.51			17.5	0.0	
100	QPSK	1	271	16.54					
100	QPSK	135	0	16.42					
100	QPSK	135	69	16.51			17.5	0.0	
100	QPSK	135	138	16.28			17.5	0.0	
100	QPSK	270	0	16.30					
100	16QAM	1	1	16.49					
100	64QAM	1	1	16.43			17.5	0.0	
100	256QAM	1	1	16.37			17.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	16.23	16.16	16.20	17.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	16.07	16.31	16.12	17.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	16.21	16.23	16.12	17.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3516.99			
60	QPSK	1	1	16.20	16.17	16.10	17.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	16.27	16.17	16.22	17.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.23	16.16	16.27	17.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	16.14	16.19	16.12	17.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	16.41	16.37	16.40	17.5	0.0	
Channel				630340	633332	636366	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3455.15	3499.98	3542.49			
20	QPSK	1	1	16.06	16.22	16.11	17.5	0.0	
Channel				630334	633332	636332	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				3450.01	3499.98	3544.98			
15	QPSK	1	1	16.13	16.22	16.25	17.5	0.0	

Part270_n78_Ant 12									
BW [MHz]	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	PI2 BPSK	1	1	16.01			17.5	0.0	
100	PI2 BPSK	1	137	15.93					
100	PI2 BPSK	1	271	15.88					
100	PI2 BPSK	135	0	15.90			17.5	0.0	
100	PI2 BPSK	135	69	15.97			17.5	0.0	
100	PI2 BPSK	135	138	16.00			17.5	0.0	
100	PI2 BPSK	270	0	15.94			17.5	0.0	
100	QPSK	1	1	16.10			17.5	0.0	
100	QPSK	1	137	15.86					
100	QPSK	1	271	15.98					
100	QPSK	135	0	15.84			17.5	0.0	
100	QPSK	135	69	15.94			17.5	0.0	
100	QPSK	135	138	15.90			17.5	0.0	
100	QPSK	270	0	15.89			17.5	0.0	
100	16QAM	1	1	15.92			17.5	0.0	
100	64QAM	1	1	15.96			17.5	0.0	
100	256QAM	1	1	15.95			17.5	0.0	
Channel				649968	650000	650032	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	15.75	15.64	15.67	17.5	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.31	3750.3	3760.29			
80	QPSK	1	1	15.75	15.62	15.72	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.3	3750	3765.3			
70	QPSK	1	1	15.54	15.65	15.59	17.5	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1	15.66	15.65	15.61	17.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	15.50	15.60	15.58	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.57	15.76	15.82	17.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	15.50	15.55	15.70	17.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.02	3699.98	3540			
25	QPSK	1	1	15.06	15.85	16.71	17.5	0.0	
Channel				647000	650000	652512	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1	15.62	15.63	15.59	17.5	0.0	
Channel				646500	650000	653500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	15.71	15.51	15.56	17.5	0.0	

Part27Q_n78_Ant 23									
BW (MHz)	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	PI2 BPSK	1	1		14.60			16.5	0.0
100	PI2 BPSK	1	137		14.68				
100	PI2 BPSK	1	271		14.61				
100	PI2 BPSK	135	0		14.64		16.5	0.0	
100	PI2 BPSK	135	69		14.67		16.5	0.0	
100	PI2 BPSK	135	138		14.59		16.5	0.0	
100	PI2 BPSK	270	0		14.60				
100	QPSK	1	1		14.78			16.5	0.0
100	QPSK	1	137		14.66				
100	QPSK	1	271		14.72				
100	QPSK	135	0		14.56			16.5	0.0
100	QPSK	135	69		14.66				
100	QPSK	135	138		14.65				
100	QPSK	270	0		14.61		16.5	0.0	
100	16QAM	1	1		14.72		16.5	0.0	
100	64QAM	1	1		14.54		16.5	0.0	
100	256QAM	1	1		14.59		16.5	0.0	
Channel				633300	633332	633666	Tune-up limit	15.7	(dB)
Frequency (MHz)				3489	3499.98	3504.99			
90	QPSK	1	1	14.58	14.64	14.54	16.5	0.0	
Channel				633068	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3489.02	3499.98	3491	(dBm)	(dB)	
80	QPSK	1	1	14.53	14.68	14.57	16.5	0.0	
Channel				632934	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	14.67	14.67	14.63	16.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	14.54	14.72	14.76	16.5	0.0	
Channel				631068	633332	635000	Tune-up limit	15.7	(dB)
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	14.67	14.77	14.62	16.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3528.98	(dBm)	(dB)	
40	QPSK	1	1	14.62	14.60	14.58	16.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	14.50	14.63	14.60	16.5	0.0	
Channel				632005	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
25	QPSK	1	1	14.50	14.74	14.51	16.5	0.0	
Channel				632000	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.48	(dBm)	(dB)	
20	QPSK	1	1	14.85	14.60	14.70	16.5	0.0	
Channel				636334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3450.01	3499.98	3544.98	(dBm)	(dB)	
15	QPSK	1	1	14.65	14.57	14.50	16.5	0.0	

Part27O_n78_Ant 23									
BW (MHz)	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	PI2 BPSK	1	1		14.62			16.5	0.0
100	PI2 BPSK	1	137		14.79				
100	PI2 BPSK	1	271		14.62				
100	PI2 BPSK	135	0		14.56		16.5	0.0	
100	PI2 BPSK	135	69		14.72		16.5	0.0	
100	PI2 BPSK	135	138		14.57		16.5	0.0	
100	PI2 BPSK	270	0		14.67				
100	QPSK	1	1		15.08			16.5	0.0
100	QPSK	1	137		14.76				
100	QPSK	1	271		14.75				
100	QPSK	135	0		14.61			16.5	0.0
100	QPSK	135	69		14.78				
100	QPSK	135	138		14.71				
100	QPSK	270	0		14.59		16.5	0.0	
100	16QAM	1	1		14.77		16.5	0.0	
100	64QAM	1	1		14.68		16.5	0.0	
100	256QAM	1	1		14.56		16.5	0.0	
Channel				649968	650000	650032	Tune-up limit	15.7	(dB)
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	14.70	14.74	14.74	16.5	0.0	
Channel				649334	650000	650066	Tune-up limit	MPR	
Frequency (MHz)				3743.11	3750	3756.99	(dBm)	(dB)	
80	QPSK	1	1	14.59	14.76	14.59	16.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	14.71	14.77	14.70	16.5	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3766.98	(dBm)	(dB)	
60	QPSK	1	1	14.64	14.81	14.63	16.5	0.0	
Channel				648334	650000	651666	Tune-up limit	15.7	(dB)
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	14.78	14.80	14.69	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	14.70	14.93	14.91	16.5	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)	
30	QPSK	1	1	14.70	14.82	14.72	16.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
25	QPSK	1	1	14.96	14.85	14.81	16.5	0.0	
Channel				647168	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.48	(dBm)	(dB)	
20	QPSK	1	1	14.74	14.75	14.85	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
15	QPSK	1	1	14.70	14.69	14.69	16.5	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1		12.63				
100	PI2 BPSK	1	137		12.60		14.5	0.0	
100	PI2 BPSK	1	271		12.72				
100	PI2 BPSK	135	0		12.70		14.5	0.0	
100	PI2 BPSK	135	69		12.74		14.5	0.0	
100	PI2 BPSK	135	138		12.64				
100	PI2 BPSK	270	0		12.74				
100	QPSK	1	1		12.67				
100	QPSK	1	137		12.66		14.5	0.0	
100	QPSK	1	271		12.75				
100	QPSK	135	0		12.61				
100	QPSK	135	69		12.71		14.5	0.0	
100	QPSK	135	138		12.64				
100	QPSK	270	0		12.62		14.5	0.0	
100	16QAM	1	1		12.70		14.5	0.0	
100	64QAM	1	1		12.75		14.5	0.0	
100	256QAM	1	1		12.77		14.5	0.0	
Channel				633300	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3489	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	12.83	12.58	12.73	14.5	0.0	
Channel				633068	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3489.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	12.73	12.63	12.74	14.5	0.0	
Channel				633334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	12.64	12.63	12.51	14.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	12.70	12.57	12.58	14.5	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	12.68	12.55	12.75	14.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3528.98	(dBm)	(dB)	
40	QPSK	1	1	12.65	12.61	12.50	14.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	12.63	12.61	12.62	14.5	0.0	
Channel				630668	633332	635999	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
25	QPSK	1	1	12.56	12.67	12.60	14.5	0.0	
Channel				630334	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.48	(dBm)	(dB)	
20	QPSK	1	1	12.55	12.66	12.67	14.5	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)	
15	QPSK	1	1	12.77	12.71	12.63	14.5	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel						650000			
Frequency (MHz)						3750			
100	PI2 BPSK	1	1		12.64				
100	PI2 BPSK	1	137		12.78		14.5	0.0	
100	PI2 BPSK	1	271		12.68				
100	PI2 BPSK	135	0		12.65		14.5	0.0	
100	PI2 BPSK	135	69		12.69		14.5	0.0	
100	PI2 BPSK	135	138		12.73				
100	PI2 BPSK	270	0		12.72				
100	QPSK	1	1		12.69				
100	QPSK	1	137		12.68		14.5	0.0	
100	QPSK	1	271		12.75				
100	QPSK	135	0		12.53				
100	QPSK	135	69		12.79		14.5	0.0	
100	QPSK	135	138		12.78				
100	QPSK	270	0		12.60		14.5	0.0	
100	16QAM	1	1		12.71		14.5	0.0	
100	64QAM	1	1		12.59		14.5	0.0	
100	256QAM	1	1		12.57		14.5	0.0	
Channel				649968	650000	650032	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	12.79	12.62	12.86	14.5	0.0	
Channel				649334	650000	650066	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3756.99	(dBm)	(dB)	
80	QPSK	1	1	12.62	12.79	12.71	14.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	12.73	12.67	12.21	14.5	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3766.98	(dBm)	(dB)	
60	QPSK	1	1	12.67	12.75	12.84	14.5	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	12.69	12.70	12.70	14.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	12.75	12.75	12.97	14.5	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3794.98	(dBm)	(dB)	
30	QPSK	1	1	12.67	12.73	12.67	14.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
25	QPSK	1	1	12.82	12.87	12.88	14.5	0.0	
Channel				647168	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.48	(dBm)	(dB)	
20	QPSK	1	1	12.71	12.73	12.72	14.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
15	QPSK	1	1	12.75	12.73	12.71	14.5	0.0	



Reduced Power for DSI 3

n2_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				1860	1880	1900	14.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	13.26	13.35	13.33			
20	Pl2 BPSK	1	53	13.22	13.41	13.26			
20	Pl2 BPSK	1	104	13.33	13.30	13.25	14.5	0.0	
20	Pl2 BPSK	50	0	13.39	13.44	13.26			
20	Pl2 BPSK	50	28	13.12	13.40	13.32			
20	Pl2 BPSK	50	56	13.41	13.46	13.38			
20	Pl2 BPSK	100	0	13.35	13.44	13.35	14.5	0.0	
20	QPSK	1	1	13.35	13.48	13.42			
20	QPSK	1	53	13.33	13.38	13.38			
20	QPSK	1	104	13.31	13.48	13.27			
20	QPSK	50	0	13.15	13.34	13.22	14.5	0.0	
20	QPSK	50	28	13.34	13.42	13.35			
20	QPSK	50	56	13.33	13.40	13.39			
20	QPSK	100	0	13.35	13.38	13.37			
20	8QAM	1	1	13.40	13.30	13.30	14.5	0.0	
20	8QAM	1	1	13.25	13.32	13.25			
20	256QAM	1	1	13.40	13.32	13.35			
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1861.5	1880	1892.5	(dBm)	(dB)	
15	QPSK	1	1	13.24	13.44	13.21	14.5	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	13.23	13.45	13.40	14.5	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	13.33	13.44	13.28	14.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	22.79	22.95	22.85			
20	Pl2 BPSK	1	53	22.79	22.94	22.86			
20	Pl2 BPSK	1	104	22.83	22.89	22.86	24.0	0.5	
20	Pl2 BPSK	50	0	22.29	22.44	22.36			
20	Pl2 BPSK	50	28	22.73	22.87	22.81			
20	Pl2 BPSK	50	56	22.20	22.35	22.25			
20	Pl2 BPSK	100	0	22.25	22.35	22.30	24.0	0.5	
20	QPSK	1	1	22.98	23.04	23.02			
20	QPSK	1	53	22.81	22.95	22.91			
20	QPSK	1	104	22.78	22.87	22.86			
20	QPSK	50	0	21.96	22.12	22.02	23.5	1.0	
20	QPSK	50	28	22.63	22.85	22.87			
20	QPSK	50	56	22.69	22.19	22.12			
20	QPSK	100	0	22.03	22.15	22.05			
20	16QAM	1	1	22.37	22.53	22.46	23.5	1.0	
20	16QAM	1	1	20.75	20.84	20.77			
20	256QAM	1	1	18.93	19.02	18.95			
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1861.5	1880	1892.5	(dBm)	(dB)	
15	QPSK	1	1	22.79	22.90	22.79	24.5	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	22.70	22.83	22.75	24.5	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	22.75	22.87	22.77	24.5	0.0	

n5_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				166800	167300	167800	20.5	0.0	
Frequency (MHz)				834	836.5	838			
20	Pl2 BPSK	1	1	19.40	19.41	19.25			
20	Pl2 BPSK	1	53	19.30	19.45	19.17			
20	Pl2 BPSK	1	104	19.40	19.47	19.27	20.5	0.0	
20	Pl2 BPSK	50	0	19.33	19.45	19.22			
20	Pl2 BPSK	50	28	19.38	19.35	19.34			
20	Pl2 BPSK	50	56	19.31	19.33	19.31			
20	Pl2 BPSK	100	0	19.30	19.34	19.33	20.5	0.0	
20	QPSK	1	1	19.47	19.48	19.30			
20	QPSK	1	53	19.35	19.45	19.20			
20	QPSK	1	104	19.29	19.44	19.20			
20	QPSK	50	0	19.27	19.32	19.30	20.5	0.0	
20	QPSK	50	28	19.35	19.42	19.33			
20	QPSK	50	56	19.35	19.28	19.23			
20	QPSK	100	0	19.29	19.31	19.22			
20	16QAM	1	1	19.45	19.33	19.19	20.5	0.0	
20	16QAM	1	1	19.31	19.41	19.28			
20	256QAM	1	1	19.43	19.29	19.23			
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	19.36	19.46	19.29	20.5	0.0	
Channel				166800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				836	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	19.40	19.43	19.23	20.5	0.0	
Channel				166300	167300	169300	Tune-up limit	MPR	
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	19.42	19.32	19.24	20.5	0.0	

n5_Ant 31												
BW [MHz]	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	25.5	0.0				
Frequency (MHz)				834	836.5	839						
20	PI2 BPSK	1	1	24.06	24.14	24.12						
20	PI2 BPSK	1	53	23.93	24.01	23.96	25.0	0.5				
20	PI2 BPSK	1	104	23.85	23.91	23.90						
20	PI2 BPSK	50	0	23.34	23.43	23.42						
20	PI2 BPSK	50	28	23.79	23.96	23.89	25.0	0.5				
20	PI2 BPSK	50	56	23.25	23.40	23.33						
20	PI2 BPSK	100	0	23.43	23.51	23.46						
20	QPSK	1	1	24.16	24.19	24.11	25.5	0.0				
20	QPSK	1	53	23.92	24.02	23.93						
20	QPSK	1	104	23.77	23.91	23.83						
20	QPSK	50	0	23.06	23.24	23.19	24.5	1.0				
20	QPSK	50	28	23.91	24.03	24.00						
20	QPSK	50	56	23.08	23.22	23.15						
20	QPSK	100	0	23.19	23.29	23.27	24.5	1.0				
20	16QAM	1	1	23.43	23.63	23.53						
20	64QAM	1	1	21.92	22.02	21.98		23.0				
20	256QAM	1	1	19.97	20.16	20.07	21.0	4.5				
Channel				166300	167300	168300						
Frequency (MHz)				831.6	836.5	841.5						
15	QPSK	1	1	23.95	24.00	23.99	25.5	0.0				
Channel				166800	167300	168800						
Frequency (MHz)				829	836.5	844						
10	QPSK	1	1	23.89	23.97	23.97	25.5	0.0				
Channel				166300	167300	169300						
Frequency (MHz)				836.5	836.5	846.5						
5	QPSK	1	1	23.88	23.95	23.80	25.5	0.0				
Channel												
Frequency (MHz)												

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel				504000	507000	510000	17.5	0.0				
Frequency (MHz)				2520	2535	2560						
40	PI2 BPSK	1	1	16.24	16.24	16.29						
40	PI2 BPSK	1	108	16.25	16.25	16.19	17.5	0.0				
40	PI2 BPSK	1	214	16.20	16.30	16.25						
40	PI2 BPSK	108	0	16.26	16.28	16.30						
40	PI2 BPSK	108	54	16.19	16.32	16.25	17.5	0.0				
40	PI2 BPSK	108	108	16.33	16.39	16.25						
40	PI2 BPSK	216	0	16.25	16.29	16.22						
40	QPSK	1	1	16.30	16.42	16.38	17.5	0.0				
40	QPSK	1	108	16.31	16.34	16.30						
40	QPSK	1	214	16.28	16.23	16.22						
40	QPSK	108	0	16.26	16.26	16.30	17.5	0.0				
40	QPSK	108	54	16.34	16.37	16.35						
40	QPSK	108	108	16.29	16.23	16.25						
40	QPSK	216	0	16.24	16.34	16.22	17.5	0.0				
40	16QAM	1	1	16.23	16.28	16.26						
40	64QAM	1	1	16.27	16.22	16.17						
40	256QAM	1	1	16.27	16.34	16.26	17.5	0.0				
Channel				503000	507000	511000						
Frequency (MHz)				2515	2535	2565						
30	QPSK	1	1	16.19	16.27	16.36	17.5	0.0				
Channel				502900	507000	511900						
Frequency (MHz)				2512.5	2535	2557.5						
25	QPSK	1	1	16.23	16.37	16.32	17.5	0.0				
Channel				502000	507000	512000						
Frequency (MHz)				2510	2535	2560						
20	QPSK	1	1	16.28	16.33	16.32	17.5	0.0				
Channel				501900	507000	512900						
Frequency (MHz)				2507.5	2535	2562.5						
15	QPSK	1	1	16.27	16.30	16.36	17.5	0.0				
Channel				501000	507000	513000						
Frequency (MHz)				2506	2535	2565						
10	QPSK	1	1	16.30	16.21	16.17	17.5	0.0				
Channel				500500	507000	513500						
Frequency (MHz)				2502.5	2535	2567.5						
5	QPSK	1	1	16.30	16.22	16.21	17.5	0.0				
Channel												
Frequency (MHz)												

n7_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				506000	507000	510000	12.5	0.0				
Frequency (MHz)				2520	2535	2560						
40	PI2 BPSK	1	1	11.37	11.36	11.22						
40	PI2 BPSK	1	108	11.18	11.18	11.35	12.5	0.0				
40	PI2 BPSK	1	214	11.17	11.27	11.24						
40	PI2 BPSK	108	0	11.32	11.32	11.31						
40	PI2 BPSK	108	54	11.24	11.34	11.23	12.5	0.0				
40	PI2 BPSK	108	108	11.12	11.27	11.31						
40	PI2 BPSK	216	0	11.16	11.30	11.15						
40	QPSK	1	1	11.35	11.42	11.39	12.5	0.0				
40	QPSK	1	108	11.33	11.27	11.23						
40	QPSK	1	214	11.30	11.30	11.14						
40	QPSK	108	0	11.13	11.21	11.18	12.5	0.0				
40	QPSK	108	54	11.27	11.41	11.34						
40	QPSK	108	108	11.22	11.26	11.32						
40	QPSK	216	0	11.26	11.36	11.31	12.5	0.0				
40	16QAM	1	1	11.19	11.38	11.28						
40	64QAM	1	1	11.20	11.28	11.13						
40	256QAM	1	1	11.33	11.38	11.17	12.5	0.0				
Channel				503000	507000	511000						
Frequency (MHz)				2515	2535	2565						
30	QPSK	1	1	11.38	11.31	11.34	12.5	0.0				
Channel				502900	507000	511900						
Frequency (MHz)				2512.5	2535	2557.5						
25	QPSK	1	1	11.35	11.39	11.32	12.5	0.0				
Channel				502000	507000	512000						
Frequency (MHz)				2510	2535	2560						
20	QPSK	1	1	11.29	11.32	11.30	12.5	0.0				
Channel				501900	507000	512900						
Frequency (MHz)				2507.5	2535	2562.5						
15	QPSK	1	1	11.26	11.33	11.38	12.5	0.0				
Channel				501000	507000	513000						
Frequency (MHz)				2506	2535	2565						
10	QPSK	1	1	11.33	11.40	11.35	12.5	0.0				
Channel				500500	507000	513500						
Frequency (MHz)				2502.5	2535	2567.5						
5	QPSK	1	1	11.36	11.36	11.30	12.5	0.0				
Channel												
Frequency (MHz)												

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				504000	506000	510000				
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	23.02	23.06	23.03	24.5	0.0		
40	PI2 BPSK	1	108	22.90	23.03	23.00				
40	PI2 BPSK	1	214	22.91	23.02	23.00				
40	PI2 BPSK	108	0	22.39	22.48	22.44	24.0	0.5		
40	PI2 BPSK	108	54	22.83	22.89	22.86	24.5	0.0		
40	PI2 BPSK	108	108	22.32	22.45	22.37	24.0	0.5		
40	PI2 BPSK	216	0	22.35	22.40	22.38				
40	QPSK	1	1	23.11	23.25	23.19				
40	QPSK	1	108	22.86	23.02	22.96	24.5	0.0		
40	QPSK	1	214	22.88	23.01	22.93	23.5	1.0		
40	QPSK	108	0	22.04	22.13	22.05				
40	QPSK	108	54	22.05	22.08	22.07				
40	QPSK	108	108	22.02	22.22	22.12	23.5	1.0		
40	QPSK	216	0	22.06	22.18	22.14	23.5	1.0		
40	16QAM	1	1	22.48	22.63	22.57				
40	64QAM	1	1	20.91	21.07	20.98	22.0	2.5		
40	256QAM	1	1	19.03	19.19	19.11	20.0	4.5		
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)		
30	QPSK	1	1	23.02	22.99	23.01	24.5	0.0		
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	QPSK	1	1	22.97	22.91	22.98	24.5	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	QPSK	1	1	23.01	22.96	23.00	24.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)		
15	QPSK	1	1	23.00	22.91	22.98	24.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)		
10	QPSK	1	1	22.94	22.96	22.92	24.5	0.0		
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	23.01	22.98	22.96	24.5	0.0		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				164800	166300	167800				
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	19.42	19.33	19.33	20.5	0.0		
20	PI2 BPSK	1	53	19.42	19.38	19.34				
20	PI2 BPSK	1	104	19.43	19.44	19.29				
20	PI2 BPSK	50	0	19.31	19.45	19.42	20.5	0.0		
20	PI2 BPSK	50	28	19.34	19.44	19.34	20.5	0.0		
20	PI2 BPSK	50	56	19.37	19.43	19.26	20.5	0.0		
20	PI2 BPSK	100	0	19.32	19.51	19.25				
20	QPSK	1	1	19.48	19.53	19.44				
20	QPSK	1	53	19.45	19.51	19.27	20.5	0.0		
20	QPSK	1	104	19.28	19.38	19.27	20.5	0.0		
20	QPSK	50	0	19.38	19.41	19.34				
20	QPSK	50	28	19.40	19.50	19.40				
20	QPSK	50	56	19.32	19.39	19.33	20.5	0.0		
20	QPSK	100	0	19.43	19.45	19.40	20.5	0.0		
20	16QAM	1	1	19.43	19.37	19.27				
20	64QAM	1	1	19.39	19.34	19.38				
20	256QAM	1	1	19.29	19.42	19.27	20.5	0.0		
Channel				164800	166300	166300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)		
15	QPSK	1	1	19.37	19.32	19.23	20.5	0.0		
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				819	831.5	844	(dBm)	(dB)		
10	QPSK	1	1	19.42	19.39	19.28	20.5	0.0		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	19.36	19.36	19.41	20.5	0.0		

n26_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				164000	166300	167600				
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	23.74	23.90	23.83	25.5	0.0		
20	PI2 BPSK	1	53	23.63	23.84	23.84				
20	PI2 BPSK	1	104	23.75	23.87	23.81				
20	PI2 BPSK	50	0	23.26	23.37	23.28	25.0	0.5		
20	PI2 BPSK	50	28	23.84	23.91	23.85	25.5	0.0		
20	PI2 BPSK	50	56	23.27	23.37	23.28	25.0	0.5		
20	PI2 BPSK	100	0	23.30	23.42	23.40				
20	QPSK	1	1	23.91	23.96	23.93				
20	QPSK	1	53	23.80	23.89	23.86	25.5	0.0		
20	QPSK	1	104	23.79	23.91	23.85	24.5	1.0		
20	QPSK	50	0	23.09	23.19	23.16				
20	QPSK	50	28	23.85	23.94	23.84				
20	QPSK	50	56	23.09	23.18	23.10	24.5	1.0		
20	QPSK	100	0	23.11	23.21	23.17	24.5	1.0		
20	16QAM	1	1	23.43	23.62	23.44				
20	64QAM	1	1	21.84	21.92	21.91	23.0	2.5		
20	256QAM	1	1	19.99	20.09	20.07	21.0	4.5		
Channel				164000	166300	168300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)		
15	QPSK	1	1	23.80	23.82	23.80	25.5	0.0		
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				819	831.5	844	(dBm)	(dB)		
10	QPSK	1	1	23.72	23.78	23.73	25.5	0.0		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	23.71	23.78	23.76	25.5	0.0		

n66_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	18.5	0.0		
Frequency (MHz)										
40	PI2 BPSK	1	1	17.20	17.33	17.21	18.5	0.0		
40	PI2 BPSK	1	108	17.22	17.19	17.03				
40	PI2 BPSK	1	214	17.30	17.33	17.04				
40	PI2 BPSK	108	0	17.15	17.29	17.19	18.5	0.0		
40	PI2 BPSK	108	54	17.16	17.33	17.12	18.5	0.0		
40	PI2 BPSK	108	108	17.25	17.31	17.10	18.5	0.0		
40	PI2 BPSK	216	0	17.11	17.21	17.14	18.5	0.0		
40	QPSK	1	1	17.32	17.39	17.24				
40	QPSK	1	108	17.16	17.19	17.15	18.5	0.0		
40	QPSK	1	214	17.30	17.30	17.15	18.5	0.0		
40	QPSK	108	0	17.20	17.25	17.11				
40	QPSK	108	54	17.30	17.32	17.25	18.5	0.0		
40	QPSK	108	108	17.16	17.20	17.22	18.5	0.0		
40	QPSK	216	0	17.23	17.30	17.19	18.5	0.0		
40	16QAM	1	1	17.20	17.32	17.16				
40	64QAM	1	1	17.24	17.33	17.20	18.5	0.0		
40	256QAM	1	1	17.27	17.33	17.11	18.5	0.0		
Channel				345000	349000	352000	Tune-up limit	MPR		
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)		
35	QPSK	1	1	17.23	17.25	17.17	18.5	0.0		
Channel				345000	349000	353000	Tune-up limit	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	17.10	17.30	17.05	18.5	0.0		
Channel				344500	349000	353500	Tune-up limit	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	17.15	17.33	17.05	18.5	0.0		
Channel				344000	349000	354000	Tune-up limit	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	17.17	17.30	17.18	18.5	0.0		
Channel				343500	349000	354500	Tune-up limit	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	17.13	17.26	17.13	18.5	0.0		
Channel				343000	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	17.16	17.30	17.20	18.5	0.0		
Channel				342500	349000	355500	Tune-up limit	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	17.26	17.26	17.06	18.5	0.0		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	14.5	0.0		
Frequency (MHz)										
40	PI2 BPSK	1	1	13.60	13.68	13.80	14.5	0.0		
40	PI2 BPSK	1	108	13.63	13.80	13.70				
40	PI2 BPSK	1	214	13.64	13.77	13.81				
40	PI2 BPSK	108	0	13.59	13.81	13.77	14.5	0.0		
40	PI2 BPSK	108	54	13.70	13.83	13.76	14.5	0.0		
40	PI2 BPSK	108	108	13.75	13.81	13.80	14.5	0.0		
40	PI2 BPSK	216	0	13.60	13.75	13.66				
40	QPSK	1	1	13.78	13.84	13.91	14.5	0.0		
40	QPSK	1	108	13.62	13.82	13.83				
40	QPSK	1	214	13.72	13.81	13.83	14.5	0.0		
40	QPSK	108	0	13.77	13.77	13.83	14.5	0.0		
40	QPSK	108	54	13.80	13.90	13.85	14.5	0.0		
40	QPSK	108	108	13.73	13.82	13.75	14.5	0.0		
40	QPSK	216	0	13.77	13.88	13.64	14.5	0.0		
40	16QAM	1	1	13.73	13.75	13.71				
40	64QAM	1	1	13.64	13.81	13.73	14.5	0.0		
40	256QAM	1	1	13.70	13.83	13.79	14.5	0.0		
Channel				345000	349000	352000	Tune-up limit	MPR		
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)		
35	QPSK	1	1	13.48	13.66	13.67	14.5	0.0		
Channel				345000	349000	353000	Tune-up limit	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	13.61	13.69	13.58	14.5	0.0		
Channel				344500	349000	353500	Tune-up limit	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	13.60	13.63	13.58	14.5	0.0		
Channel				344000	349000	354000	Tune-up limit	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	13.50	13.61	13.58	14.5	0.0		
Channel				343500	349000	354500	Tune-up limit	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	13.53	13.67	13.52	14.5	0.0		
Channel				343000	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	13.61	13.64	13.53	14.5	0.0		
Channel				342500	349000	355500	Tune-up limit	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	13.52	13.70	13.64	14.5	0.0		

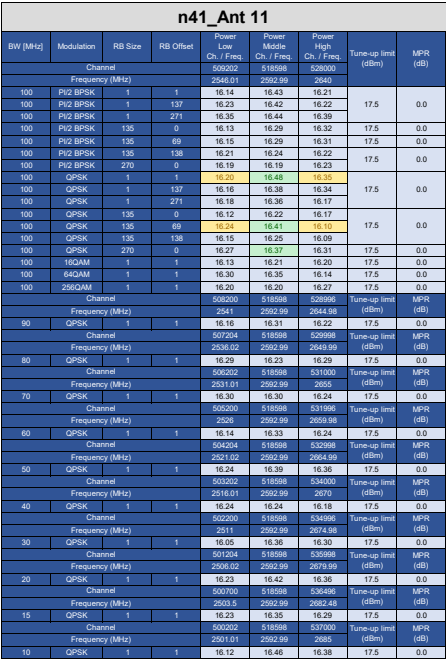
n66_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				345000	349000	352000	25.0	0.0		
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	24.32	24.34	24.25	25.0	0.0		
40	PI2 BPSK	1	108	24.17	24.27	24.16				
40	PI2 BPSK	1	214	24.07	24.15	23.99				
40	PI2 BPSK	108	0	23.84	23.88	23.80	24.5	0.5		
40	PI2 BPSK	108	54	24.08	24.18	24.03	25.0	0.0		
40	PI2 BPSK	108	108	23.66	23.71	23.64	24.5	0.5		
40	PI2 BPSK	216	0	23.71	23.76	23.65				
40	QPSK	1	1	24.47	24.48	24.37	25.0	0.0		
40	QPSK	1	108	24.25	24.32	24.24				
40	QPSK	1	214	24.17	24.27	24.12	24.0	1.0		
40	QPSK	108	0	23.46	23.49	23.45				
40	QPSK	108	54	24.16	24.24	24.15	25.0	0.0		
40	QPSK	108	108	23.98	23.47	23.29	24.0	1.0		
40	QPSK	216	0	23.48	23.50	23.42	24.0	1.0		
40	16QAM	1	1	23.80	23.84	23.86				
40	64QAM	1	1	22.18	22.21	22.13	22.5	2.5		
40	256QAM	1	1	20.45	20.47	20.35	20.5	4.5		
Channel				345000	349000	352000	Tune-up limit	MPR		
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)		
35	QPSK	1	1	24.13	24.24	24.10	25.0	0.0		
Channel				345000	349000	353000	Tune-up limit	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	24.04	24.18	24.05	25.0	0.0		
Channel				344500	349000	353500	Tune-up limit	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	24.05	24.17	24.09	25.0	0.0		
Channel				344000	349000	354000	Tune-up limit	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
20	QPSK	1	1	24.08	24.15	24.01	25.0	0.0		
Channel				343500	349000	354500	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
15	QPSK	1	1	24.12	24.15	24.05	25.0	0.0		
Channel				343000	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	24.08	24.20	24.01	25.0	0.0		
Channel				342500	349000	355500	Tune-up limit	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	24.07	24.19	24.01	25.0	0.0		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	519000	519996	2590.02	2595	2599.98
40	Pl2 BPSK	1	1	16.33	16.47	16.26	17.5	0.0	
40	Pl2 BPSK	1	53	16.33	16.34	16.34			
40	Pl2 BPSK	1	104	16.43	16.34	16.29			
40	Pl2 BPSK	50	0	16.36	16.44	16.33	17.5	0.0	
40	Pl2 BPSK	50	28	16.41	16.38	16.29	17.5	0.0	
40	Pl2 BPSK	50	56	16.43	16.30	16.29	17.5	0.0	
40	Pl2 BPSK	100	0	16.32	16.45	16.22			
40	QPSK	1	1	16.35	16.50	16.41			
40	QPSK	1	53	16.31	16.45	16.36	17.5	0.0	
40	QPSK	1	104	16.42	16.30	16.32			
40	QPSK	50	0	16.40	16.29	16.30			
40	QPSK	50	28	16.34	16.42	16.25	17.5	0.0	
40	QPSK	50	56	16.33	16.35	16.23			
40	QPSK	100	0	16.29	16.39	16.29	17.5	0.0	
40	16QAM	1	1	16.33	16.40	16.24	17.5	0.0	
40	64QAM	1	1	16.42	16.47	16.36	17.5	0.0	
40	256QAM	1	1	16.38	16.29	16.29	17.5	0.0	
Channel									
Frequency (MHz)				517002 <th>519000<th>520998<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>520998<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	520998 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2595.01	2595	2604.99	17.5	0.0	
Channel									
Frequency (MHz)				518000 <th>519000<th>522000<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>522000<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	522000 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2590	2595	2610	17.5	0.0	
Channel									
Frequency (MHz)				515502 <th>519000<th>522498<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>522498<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	522498 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2577.51	2595	2612.49	17.5	0.0	
Channel									
Frequency (MHz)				514500 <th>519000<th>522996<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>522996<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	522996 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2614.02	2595	2614.98	17.5	0.0	
Channel									
Frequency (MHz)				514500 <th>519000<th>523500<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>523500<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	523500 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	16.29	16.32	16.34	17.5	0.0	

n38_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)				518004	518000	519996	2595.02	2595	2599.98
40	Pl2 BPSK	1	1	11.80	11.83	11.81	13.5	0.0	
40	Pl2 BPSK	1	53	11.68	11.81	11.69			
40	Pl2 BPSK	1	104	11.65	11.83	11.77			
40	Pl2 BPSK	50	0	11.68	11.76	11.73	13.5	0.0	
40	Pl2 BPSK	50	28	11.67	11.75	11.67	13.5	0.0	
40	Pl2 BPSK	50	56	11.61	11.80	11.67	13.5	0.0	
40	Pl2 BPSK	100	0	11.66	11.74	11.63			
40	QPSK	1	1	11.82	11.92	11.87			
40	QPSK	1	53	11.79	11.78	11.78	13.5	0.0	
40	QPSK	1	104	11.71	11.90	11.67			
40	QPSK	50	0	11.68	11.77	11.73			
40	QPSK	50	28	11.71	11.86	11.73	13.5	0.0	
40	QPSK	50	56	11.63	11.90	11.84			
40	QPSK	100	0	11.68	11.82	11.74	13.5	0.0	
40	16QAM	1	1	11.75	11.71	11.75	13.5	0.0	
40	64QAM	1	1	11.67	11.75	11.73	13.5	0.0	
40	256QAM	1	1	11.72	11.75	11.69	13.5	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2595.01	2595	2604.99	13.5	0.0	
Channel									
Frequency (MHz)				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2590	2595	2610	13.5	0.0	
Channel									
Frequency (MHz)				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2577.51	2595	2612.49	13.5	0.0	
Channel									
Frequency (MHz)				517004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2575.02	2595	2614.98	13.5	0.0	
Channel									
Frequency (MHz)				514500	519000	523500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	2572.5	2595	2617.5	13.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	519000	519996	2590.02	2595	2599.98
40	PV2 BPSK	1	1	24.04	24.18	24.10	25.5	0.0	
40	PV2 BPSK	1	53	24.01	24.07	24.06			
40	PV2 BPSK	1	104	24.08	24.12	24.09			
40	PV2 BPSK	50	0	23.38	23.51	23.47	25.0	0.5	
40	PV2 BPSK	50	28	23.83	24.03	23.93	25.5	0.0	
40	PV2 BPSK	50	56	23.55	23.59	23.57	25.0	0.5	
40	PV2 BPSK	100	0	23.45	23.54	23.47			
40	QPSK	1	1	23.18	23.24	23.21			
40	QPSK	1	53	24.08	24.16	24.12	25.5	0.0	
40	QPSK	1	104	24.16	24.22	24.17			
40	QPSK	50	0	23.11	23.12	23.03			
40	QPSK	50	28	23.01	23.02	23.01	25.5	0.0	
40	QPSK	50	56	23.00	23.08	23.05			
40	QPSK	100	0	22.75	22.80	22.74	24.5	1.0	
40	16QAM	1	1	22.67	22.75	22.68	24.5	1.0	
40	64QAM	1	1	21.41	21.46	21.40	23.0	2.5	
40	256QAM	1	1	20.20	20.25	20.24	21.0	4.5	
Channel									
Frequency (MHz)				2585.01 <th>2595<th>2604.99<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	2595 <th>2604.99<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	2604.99 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	24.00	24.00	23.99	25.5	0.0	
Channel									
Frequency (MHz)				518000 <th>519000<th>522000<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>522000<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	522000 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.96	24.03	23.99	25.5	0.0	
Channel									
Frequency (MHz)				2577.51 <th>2595<th>2612.49<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	2595 <th>2612.49<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	2612.49 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.97	24.06	24.02	25.5	0.0	
Channel									
Frequency (MHz)				515004 <th>519000<th>522996<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>522996<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	522996 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2614.02	2595	2614.98	25.0	0.0	
Channel									
Frequency (MHz)				514500 <th>519000<th>523500<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	519000 <th>523500<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	523500 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.94	23.98	24.00	25.5	0.0	



n41_Ant 13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			506022	516988	528000			
100	PV2 BPSK	1	1	12.05	12.07	12.07			
100	PV2 BPSK	1	137	12.07	12.09	12.26	14.0		0.0
100	PV2 BPSK	1	131	12.09	12.22	12.14			
100	PV2 BPSK	135	0	12.20	12.24	12.28	14.0		0.0
100	PV2 BPSK	135	69	12.31	12.09	12.21			
100	PV2 BPSK	135	136	12.21	12.26	12.14			
100	PV2 BPSK	270	0	12.14	12.16	12.17	14.0		0.0
100	QPSK	1	1	12.20	12.39	12.28			
100	QPSK	1	137	12.18	12.33	12.28	14.0		0.0
100	QPSK	1	271	12.11	12.33	12.12			
100	QPSK	135	0	12.11	12.23	12.05			
100	QPSK	135	69	12.15	12.18	12.12	14.0		0.0
100	QPSK	135	136	12.88	12.05	12.11			
100	QPSK	270	0	12.11	12.16	12.15			
100	16QAM	1	1	12.16	12.25	12.08	14.0		0.0
100	64QAM	1	1	12.06	12.07	12.14	14.0		0.0
100	256QAM	1	1	12.07	12.27	12.03	14.0		0.0
Channel									
	Frequency (MHz)			2561	2592.59	2644.98	Time-up limit (dBm)	LPR (dB)	
90	QPSK	1	1	12.31	12.32	12.24	14.0		0.0
Channel									
	Frequency (MHz)			507204	516988	529998	Time-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.03	12.09	12.09			
80	QPSK	1	12.12	12.30	12.24	14.0			
Channel									
	Frequency (MHz)			2531.01	2592.59	2665	Time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	12.05	12.25	12.21	14.0		0.0
70	QPSK	1	12.06	12.16	12.16	14.0			
Channel									
	Frequency (MHz)			2526	2592.59	2659.98	Time-up limit (dBm)	LPR (dB)	
60	QPSK	1	1	12.24	12.26	12.28	14.0		0.0
Channel									
	Frequency (MHz)			504204	516988	533098	Time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	12.04	12.29	12.04			
50	QPSK	1	1	12.09	12.33	12.22	14.0		0.0
Channel									
	Frequency (MHz)			503022	516988	534000	Time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	12.27	12.34	12.18	14.0		0.0
Channel									
	Frequency (MHz)			2511.01	2592.59	2674.98	Time-up limit (dBm)	LPR (dB)	
30	QPSK	1	1	12.24	12.30	12.38	14.0		0.0
Channel									
	Frequency (MHz)			501204	516988	533998	Time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.03	12.09	12.09			
20	QPSK	1	1	12.09	12.38	12.25	14.0		0.0
Channel									
	Frequency (MHz)			500700	516988	536498	Time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	12.27	12.34	12.31	14.0		0.0
Channel									
	Frequency (MHz)			2501.01	2592.59	2685	Time-up limit (dBm)	MPR (dB)	
10	QPSK	1x1	1	12.20	12.32	12.28	14.0		0.0

n41_Ant 31							
BW [MHz]	Modulation	RB Size	RB Offset	Power Level Ch / Freq.	Power Level Ch / Freq.	Power Level Ch / Freq.	
	Channel			506022	518698	520800	
	Frequency (MHz)			2592.99	2592.99	2592.99	
100	P12 BPSK	1	1	24.79	24.83	24.82	
100	P12 BPSK	1	137	24.79	24.87	24.78	26.5
100	P12 BPSK	1	271	24.86	24.92	24.91	
100	P12 BPSK	135	0	24.18	24.19	24.13	26.0
100	P12 BPSK	135	69	24.78	24.79	24.72	26.0
100	P12 BPSK	135	136	25.18	24.23	24.20	
100	P12 BPSK	270	0	24.12	24.21	24.22	26.0
100	QPSK	1	1	24.92	25.03	24.98	
100	QPSK	1	137	24.89	24.92	24.88	26.5
100	QPSK	1	271	24.90	25.02	24.95	
100	QPSK	135	0	23.64	23.70	23.69	
100	QPSK	135	69	24.83	24.71	24.65	26.5
100	QPSK	135	136	23.86	23.75	23.74	
100	QPSK	270	0	23.61	23.67	23.65	26.0
100	16QAM	1	1	25.15	25.19	25.16	25.5
100	64QAM	1	1	23.02	23.07	23.04	24.0
100	256QAM	1	1	21.40	21.48	21.37	22.0
	Channel			506022	518698	520948	
	Frequency (MHz)			2592.99	2592.99	2592.99	
90	QPSK	1	1	24.87	24.97	24.87	26.5
	Channel			507204	518698	520998	
	Frequency (MHz)			2593.02	2592.99	2592.99	
80	QPSK	1	1	24.87	24.97	24.89	26.5
	Channel			508022	518698	531000	
	Frequency (MHz)			2593.01	2592.99	2595	
70	QPSK	1	1	24.84	24.91	24.93	26.5
	Channel			509022	518698	531000	
	Frequency (MHz)			2593	2592.99	2595.98	
60	QPSK	1	1	24.91	24.97	24.85	26.5
	Channel			504204	518698	532098	
	Frequency (MHz)			2593.12	2592.99	2594.99	
50	QPSK	1	1	24.91	24.97	24.87	26.5
	Channel			503002	518698	534000	
	Frequency (MHz)			2594.01	2592.99	2597	
40	QPSK	1	1	24.86	25.01	24.94	26.5
	Channel			502022	518698	535004	
	Frequency (MHz)			2593.11	2592.99	2597.98	
30	QPSK	1	1	24.89	25.00	24.93	26.5
	Channel			507204	518698	535998	
	Frequency (MHz)			2593.99	2592.99	2598.99	
20	QPSK	1	1	24.84	24.93	24.86	26.5
	Channel			500700	518698	536496	
	Frequency (MHz)			2593.5	2592.99	2592.48	
15	QPSK	1	1	24.83	24.96	24.90	26.5
	Channel			501022	518698	537000	
	Frequency (MHz)			2593.01	2592.99	2598	
10	QPSK	1	1	24.89	24.96	24.88	26.5

Part27Q_n77_Ant 11									
BW (MHz)	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	P12 BPSK	1	1		14.48				
100	P12 BPSK	1	137		14.47		16.0	0.0	
100	P12 BPSK	1	271		14.42				
100	P12 BPSK	135	0		14.27		16.0	0.0	
100	P12 BPSK	135	69		14.29		16.0	0.0	
100	P12 BPSK	135	138		14.32		16.0	0.0	
100	P12 BPSK	270	0		14.28				
100	QPSK	1	1		14.50				
100	QPSK	1	137		14.52		16.0	0.0	
100	QPSK	1	271		14.57				
100	QPSK	135	0		14.41		16.0	0.0	
100	QPSK	135	69		14.38				
100	QPSK	135	138		14.29				
100	QPSK	270	0		14.38		16.0	0.0	
100	16QAM	1	1		14.44		16.0	0.0	
100	64QAM	1	1		14.40		16.0	0.0	
100	256QAM	1	1		14.36		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	(dB)
				3495	3499.98	3504.99			
90	QPSK	1	1	14.22	14.32	14.29	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	(dB)
				3490.02	3499.98	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3499.98	3514.98			
Channel									
Frequency (MHz)									
60	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR	(dB)
				3475.02	3499.98	3525			
Channel									
Frequency (MHz)									
50	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR	(dB)
				3470.01	3499.98	3524.98			
Channel									
Frequency (MHz)									
40	QPSK	1	1	630332	633332	636332	Tune-up limit (dBm)	MPR	(dB)
				3460.02	3499.98	3540			
Channel									
Frequency (MHz)									
30	QPSK	1	1	629668	633332	637000	Tune-up limit (dBm)	MPR	(dB)
				3450.01	3499.98	3544.98			
Channel									
Frequency (MHz)									
20	QPSK	1	1	629000	633332	637666	Tune-up limit (dBm)	MPR	(dB)
				3445.01	3499.98	3549.99			
Channel									
Frequency (MHz)									
15	QPSK	1	1	628332	633332	638332	Tune-up limit (dBm)	MPR	(dB)
				3435.01	3499.98	3554.99			

Part27Q_n77_Ant 11									
BW (MHz)	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	P12 BPSK	1	1	14.28	14.59	14.45			
100	P12 BPSK	1	137	14.28	14.45	14.46	16.0	0.0	
100	P12 BPSK	1	271	14.42	14.57	14.46			
100	P12 BPSK	135	0	14.14	14.37	14.53	16.0	0.0	
100	P12 BPSK	135	69	14.13	14.46	14.50	16.0	0.0	
100	P12 BPSK	135	138	14.32	14.38	14.47	16.0	0.0	
100	P12 BPSK	270	0	14.32	14.55	14.30			
100	QPSK	1	1	14.47	14.54	14.57			
100	QPSK	1	137	14.45	14.59	14.40	16.0	0.0	
100	QPSK	1	271	14.17	14.59	14.50			
100	QPSK	135	0	14.30	14.43	14.51			
100	QPSK	135	69	14.11	14.49	14.45	16.0	0.0	
100	QPSK	135	138	14.32	14.43	14.45			
100	QPSK	270	0	14.35	14.44	14.35	16.0	0.0	
100	16QAM	1	1	14.16	14.25	14.48	16.0	0.0	
100	64QAM	1	1	14.20	14.63	14.50	16.0	0.0	
100	256QAM	1	1	14.13	14.62	14.42	16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	(dB)
				3745.02	3840	3934.98			
90	QPSK	1	1	14.43	14.45	14.41	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646334	650000	662666	Tune-up limit (dBm)	MPR	(dB)
				3740.01	3840	3939.99			
Channel									
Frequency (MHz)									
70	QPSK	1	1	646000	650000	663000	Tune-up limit (dBm)	MPR	(dB)
				3735	3840	3945			
Channel									
Frequency (MHz)									
60	QPSK	1	1	645668	650000	663332	Tune-up limit (dBm)	MPR	(dB)
				3730.01	3840	3949.98			
Channel									
Frequency (MHz)									
50	QPSK	1	1	645334	650000	663666	Tune-up limit (dBm)	MPR	(dB)
				3725.01	3840	3954.99			
Channel									
Frequency (MHz)									
40	QPSK	1	1	645000	650000	664000	Tune-up limit (dBm)	MPR	(dB)
				3720	3840	3960			
Channel									
Frequency (MHz)									
30	QPSK	1	1	644668	650000	664332	Tune-up limit (dBm)	MPR	(dB)
				3715.02	3840	3964.98			
Channel									
Frequency (MHz)									
25	QPSK	1	1	644334	650000	664666	Tune-up limit (dBm)	MPR	(dB)
				3710.01	3840	3969.99			
Channel									
Frequency (MHz)									
20	QPSK	1	1	644000	650000	665000	Tune-up limit (dBm)	MPR	(dB)
				3705	3840	3975			
Channel									
Frequency (MHz)									
15	QPSK	1	1	6437	14.49	14.40	16.0	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	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	P12 BPSK	1	1		14.93				
100	P12 BPSK	1	137		14.91		16.5	0.0	
100	P12 BPSK	1	271		14.82				
100	P12 BPSK	135	9		14.82		16.5	0.0	
100	P12 BPSK	135	69		14.85		16.5	0.0	
100	P12 BPSK	135	138		14.81		16.5	0.0	
100	P12 BPSK	270	0		14.86				
100	QPSK	1	1		15.08				
100	QPSK	1	137		14.87		16.5	0.0	
100	QPSK	1	271		14.87				
100	QPSK	135	0		14.89				
100	QPSK	135	69		14.90		16.5	0.0	
100	QPSK	135	138		14.83				
100	QPSK	270	0		14.78		16.5	0.0	
100	16QAM	1	1		14.80		16.5	0.0	
100	64QAM	1	1		14.80		16.5	0.0	
100	256QAM	1	1		14.88		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	(dB)
				3495	3499.98	3504.99			
90	QPSK	1	1	14.87	14.90	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	(dB)
				3490.02	3499.98	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.84	15.06	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634668	Tune-up limit (dBm)	MPR	(dB)
				3480	3499.98	3519.99			
60	QPSK	1	1	14.80	14.93	14.98	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR	(dB)
				3475.02	3499.98	3525			
50	QPSK	1	1	14.73	15.03	14.94	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR	(dB)
				3470.01	3499.98	3529.98			
40	QPSK	1	1	14.73	14.89	14.90	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR	(dB)
				3465	3499.98	3534.98			
30	QPSK	1	1	14.89	14.94	14.98	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630668	633332	636000	Tune-up limit (dBm)	MPR	(dB)
				3460.02	3499.98	3540			
25	QPSK	1	1	14.98	15.08	15.04	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630300	633332	636366	Tune-up limit (dBm)	MPR	(dB)
				3455.94	3499.98	3545.49			
20	QPSK	1	1	14.94	14.98	15.00	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630000	633332	636666	Tune-up limit (dBm)	MPR	(dB)
				3450.01	3499.98	3544.98			
15	QPSK	1	1	14.89	14.97	14.95	16.5	0.0	



Part270_n77_Ant 12									
BW [MHz]	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	P22 BPSK	1	1	14.61	14.88	14.81			
100	P22 BPSK	1	137	14.64	14.81	14.65	16.5	0.0	
100	P22 BPSK	1	271	14.73	15.00	14.84			
100	P22 BPSK	135	9	14.59	14.99	14.83	16.5	0.0	
100	P22 BPSK	135	69	14.83	15.01	14.85	16.5	0.0	
100	P22 BPSK	135	138	14.53	14.84	14.81	16.5	0.0	
100	P22 BPSK	270	0	14.62	14.91	14.82			
100	QPSK	1	1	14.75	15.05	14.91			
100	QPSK	1	137	14.69	15.02	14.73	16.5	0.0	
100	QPSK	1	271	14.63	15.05	14.83			
100	QPSK	135	0	14.63	14.77	14.61			
100	QPSK	135	69	14.71	14.95	14.71	16.5	0.0	
100	QPSK	135	138	14.69	14.84	14.62			
100	QPSK	270	0	14.62	14.85	14.63	16.5	0.0	
100	16QAM	1	1	14.52	14.91	14.69	16.5	0.0	
100	64QAM	1	1	14.71	14.87	14.75	16.5	0.0	
100	256QAM	1	1	14.58	14.95	14.80	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.50	14.74	14.62	16.5	0.0	MPR
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.62	14.71	14.60	16.5	0.0	MPR
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.66	14.89	14.75	16.5	0.0	MPR
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.54	14.65	14.74	16.5	0.0	MPR
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.54	14.63	14.58	16.5	0.0	MPR
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.53	14.76	14.76	16.5	0.0	MPR
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.59	14.89	14.65	16.5	0.0	MPR
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.70	14.70	14.70	16.5	0.0	MPR
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.52	14.87	14.69	16.5	0.0	MPR
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.53	14.90	14.72	16.5	0.0	MPR

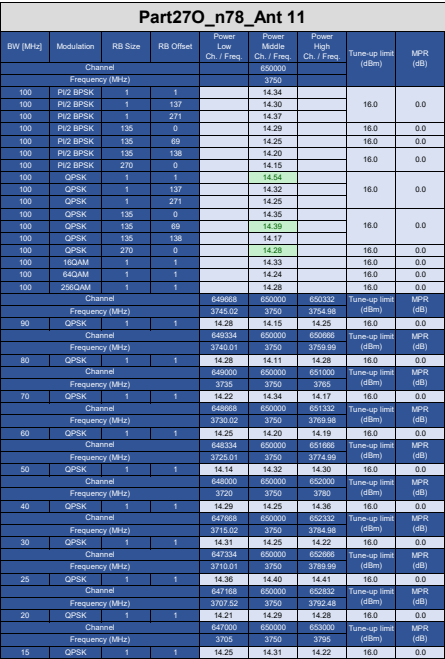
Part270_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1		13.47				
100	P22 BPSK	1	137		13.51		15.0	0.0	
100	P22 BPSK	1	271		13.55				
100	P22 BPSK	135	0		13.43		15.0	0.0	
100	P22 BPSK	135	69		13.34		15.0	0.0	
100	P22 BPSK	135	138		13.43		15.0	0.0	
100	P22 BPSK	270	0		13.43		15.0	0.0	
100	QPSK	1	1		13.57				
100	QPSK	1	137		13.46		15.0	0.0	
100	QPSK	1	271		13.44				
100	QPSK	135	0		13.48		15.0	0.0	
100	QPSK	135	69		13.40		15.0	0.0	
100	QPSK	135	138		13.43		15.0	0.0	
100	QPSK	270	0		13.49		15.0	0.0	
100	16QAM	1	1		13.28		15.0	0.0	
100	64QAM	1	1		13.42		15.0	0.0	
100	256QAM	1	1		13.46		15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	633234	633332	634332	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	631968	633332	635000	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631000	633332	635966	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	636332	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	630668	633332	636666	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630334	633332	637000	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630000	633332	637332	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	629500	633332	637666	Tune-up limit (dBm)	MPR	

Part270_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P22 BPSK	1	1	13.13	13.93	13.86			
100	P22 BPSK	1	137	13.04	13.84	13.75	15.0	0.0	
100	P22 BPSK	1	271	13.15	13.77	13.85			
100	P22 BPSK	135	0	13.18	13.72	13.66	15.0	0.0	
100	P22 BPSK	135	69	13.17	13.73	13.69	15.0	0.0	
100	P22 BPSK	135	138	13.15	13.71	13.62	15.0	0.0	
100	P22 BPSK	270	0	13.22	13.84	13.66			
100	QPSK	1	1	13.25	14.11	13.91			
100	QPSK	1	137	13.18	13.92	13.71	15.0	0.0	
100	QPSK	1	271	13.22	13.91	13.80			
100	QPSK	135	0	13.21	13.76	13.72			
100	QPSK	135	69	13.24	13.81	13.67	15.0	0.0	
100	QPSK	135	138	13.19	13.89	13.69			
100	QPSK	270	0	13.20	13.80	13.75	15.0	0.0	
100	16QAM	1	1	13.13	13.80	13.63	15.0	0.0	
100	64QAM	1	1	13.16	13.72	13.62	15.0	0.0	
100	256QAM	1	1	13.10	13.74	13.73	15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646968	650000	662332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646500	650000	662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	646334	650000	663332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	646000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	645668	650000	662666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	645334	650000	662332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	645000	650000	662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	644668	650000	661666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	644334	650000	661332	Tune-up limit (dBm)	MPR (dB)	

Part27Q_n77_Ant 21									
BW (MHz)	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	P22 BPSK	1	1		11.51				
100	P22 BPSK	1	137		11.54		13.0	0.0	
100	P22 BPSK	1	271		11.51				
100	P22 BPSK	135	9		11.40		13.0	0.0	
100	P22 BPSK	135	69		11.41		13.0	0.0	
100	P22 BPSK	135	138		11.42		13.0	0.0	
100	P22 BPSK	270	0		11.39				
100	QPSK	1	1		11.55				
100	QPSK	1	137		11.39		13.0	0.0	
100	QPSK	1	271		11.53				
100	QPSK	135	0		11.35				
100	QPSK	135	69		11.55		13.0	0.0	
100	QPSK	135	138		11.55				
100	QPSK	270	0		11.41		13.0	0.0	
100	16QAM	1	1		11.48		13.0	0.0	
100	64QAM	1	1		11.53		13.0	0.0	
100	256QAM	1	1		11.41		13.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	
				3499.98	3499.98	3504.99	(dBm)	(dB)	
				11.05	11.27	11.24	13.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	
				3490.02	3499.98	3510	(dBm)	(dB)	
				11.02	11.06	11.13	13.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632234	633332	634332	Tune-up limit (dBm)	MPR	
				3485.01	3499.98	3514.98	(dBm)	(dB)	
				11.00	11.11	11.13	13.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR	
				3480	3499.98	3518.99	(dBm)	(dB)	
				11.12	11.13	11.24	13.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR	
				3475.02	3499.98	3525	(dBm)	(dB)	
				11.02	11.23	11.18	13.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR	
				3470.01	3499.98	3529.98	(dBm)	(dB)	
				11.26	11.15	11.10	13.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR	
				3465	3499.98	3534.99	(dBm)	(dB)	
				11.02	11.06	11.19	13.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630668	633332	636000	Tune-up limit (dBm)	MPR	
				3460.02	3499.98	3540	(dBm)	(dB)	
				11.17	11.10	11.01	13.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630500	633332	636166	Tune-up limit (dBm)	MPR	
				3457.5	3499.98	3542.49	(dBm)	(dB)	
				11.06	11.00	11.15	13.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR	
				3455.01	3499.98	3544.98	(dBm)	(dB)	
				11.15	11.23	11.20	13.0	0.0	

Part27Q_n77_Ant 21									
BW (MHz)	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	P22 BPSK	1	1	11.28	11.95	11.72			
100	P22 BPSK	1	137	11.23	12.01	11.89	13.0	0.0	
100	P22 BPSK	1	271	11.12	11.85	11.68			
100	P22 BPSK	135	0	11.18	11.90	11.78	13.0	0.0	
100	P22 BPSK	135	69	11.11	11.95	11.68	13.0	0.0	
100	P22 BPSK	135	138	11.13	11.84	11.64	13.0	0.0	
100	P22 BPSK	270	0	11.23	11.84	11.74			
100	QPSK	1	1	11.29	12.10	11.97			
100	QPSK	1	137	11.26	11.89	11.82	13.0	0.0	
100	QPSK	1	271	11.28	11.90	11.82			
100	QPSK	135	0	11.20	11.79	11.74			
100	QPSK	135	69	11.20	11.75	11.71	13.0	0.0	
100	QPSK	135	138	11.39	11.81	11.58			
100	QPSK	270	0	11.24	11.76	11.64	13.0	0.0	
100	16QAM	1	1	11.23	11.81	11.68	13.0	0.0	
100	64QAM	1	1	11.15	11.79	11.74	13.0	0.0	
100	256QAM	1	1	11.19	11.86	11.63	13.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	
				3745.02	3840	3934.98	(dBm)	(dB)	
				11.27	12.02	11.93	13.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646000	650000	662000	Tune-up limit (dBm)	MPR	
				3740.01	3840	3930.99	(dBm)	(dB)	
				11.27	11.83	11.96	13.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	645668	650000	662000	Tune-up limit (dBm)	MPR	
				3735	3840	3945	(dBm)	(dB)	
				11.27	11.89	11.85	13.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	645000	650000	662000	Tune-up limit (dBm)	MPR	
				3730.02	3840	3940.98	(dBm)	(dB)	
				11.18	12.06	12.04	13.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	644334	650000	662000	Tune-up limit (dBm)	MPR	
				3725.01	3840	3954.99	(dBm)	(dB)	
				11.23	11.29	11.58	13.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	644000	650000	662000	Tune-up limit (dBm)	MPR	
				3720	3840	3960	(dBm)	(dB)	
				11.02	11.97	11.81	13.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	643668	650000	662000	Tune-up limit (dBm)	MPR	
				3715.02	3840	3964.98	(dBm)	(dB)	
				11.21	11.94	11.91	13.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	643000	650000	662000	Tune-up limit (dBm)	MPR	
				3710.01	3840	3969.99	(dBm)	(dB)	
				11.25	12.03	12.07	13.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	642668	650000	662000	Tune-up limit (dBm)	MPR	
				3707.52	3840	3972.48	(dBm)	(dB)	
				11.13	12.07	11.94	13.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	642000	650000	662000	Tune-up limit (dBm)	MPR	
				3705	3840	3975	(dBm)	(dB)	
				11.32	12.01	11.88	13.0	0.0	

Part27Q_n78_Ant 11									
BW (MHz)	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	P22 BPSK	1	1	14.54	3699.98				
100	P22 BPSK	1	137	14.36			16.0	0.0	
100	P22 BPSK	1	271	14.30					
100	P22 BPSK	135	0	14.43			16.0	0.0	
100	P22 BPSK	135	69	14.51			16.0	0.0	
100	P22 BPSK	135	138	14.56			16.0	0.0	
100	P22 BPSK	270	0	14.54					
100	QPSK	1	1	14.66					
100	QPSK	1	137	14.63			16.0	0.0	
100	QPSK	1	271	14.60					
100	QPSK	135	0	14.45			16.0	0.0	
100	QPSK	135	69	14.45			16.0	0.0	
100	QPSK	135	138	14.42			16.0	0.0	
100	QPSK	270	0	14.47					
100	16QAM	1	1	14.49			16.0	0.0	
100	64QAM	1	1	14.48			16.0	0.0	
100	256QAM	1	1	14.41			16.0	0.0	
Channel				63500	63532	63696	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499	3499.98	3504.99			
90	QPSK	1	1	14.38	14.57	14.43	16.0	0.0	
Channel				63698	63532	63400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510	16.0	0.0	
80	QPSK	1	1	14.41					
Channel				63534	63532	63432	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	16.0	0.0	
70	QPSK	1	1	14.30	14.60	14.52	16.0	0.0	
Channel				63500	63532	63706	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3499.98	3519.99			
60	QPSK	1	1	14.32	14.42	14.37	16.0	0.0	
Channel				63168	63532	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	16.0	0.0	
50	QPSK	1	1	14.24	14.56	14.43	16.0	0.0	
Channel				63134	63532	63528	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3539.98	16.0	0.0	
40	QPSK	1	1	14.34	14.53	14.32	16.0	0.0	
Channel				63100	63532	63506	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	14.61	14.40	14.58	16.0	0.0	
Channel				63698	63532	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	16.0	0.0	
25	QPSK	1	1	14.31	14.51	14.42	16.0	0.0	
Channel				63500	63532	63186	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49	16.0	0.0	
20	QPSK	1	1	14.34	14.45	14.55	16.0	0.0	
Channel				63534	63532	63532	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.03	3499.98	3544.98	16.0	0.0	
15	QPSK	1	1	14.48	14.63	14.61	16.0	0.0	



Part27Q_n78_Ant 12									
IMN (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	15.27	15.27				
100	PV2 BPSK	1	137	15.27	15.27				
100	PV2 BPSK	1	271	15.17	15.17			16.5	0.0
100	PV2 BPSK	135	0	15.28	15.28				
100	PV2 BPSK	135	69	15.29	15.29			16.5	0.0
100	PV2 BPSK	135	136	15.14	15.14			16.5	0.0
100	QPSK	270	0	15.13	15.13			16.5	0.0
100	QPSK	1	1	15.35	15.35				
100	QPSK	1	137	15.33	15.33			16.5	0.0
100	QPSK	1	271	15.33	15.33				
100	QPSK	135	0	15.24	15.24			16.5	0.0
100	QPSK	135	69	15.32	15.32			16.5	0.0
100	QPSK	135	136	15.23	15.23			16.5	0.0
100	QPSK	270	0	15.24	15.24			16.5	0.0
100	16QAM	1	1	15.24	15.24			16.5	0.0
100	64QAM	1	1	15.11	15.11			16.5	0.0
100	256QAM	1	1	15.30	15.30			16.5	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.10	15.21	15.16	15.16	16.5	0.0
Channel									
90	QPSK	632668	633332	634000	634000	634568	634568	Turn-up limit (dBm)	MPR (dB)
90	QPSK	632668	633332	634000	634000	634568	634568	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.05	15.13	15.10	15.10	16.5	0.0
Channel									
80	QPSK	632334	633332	634332	634332	634866	634866	Turn-up limit (dBm)	MPR (dB)
80	QPSK	632334	633332	634332	634332	634866	634866	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.12	15.20	15.10	15.10	16.5	0.0
Channel									
70	QPSK	632000	633332	634332	634332	634866	634866	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.11	15.12	15.23	15.23	16.5	0.0
Channel									
60	QPSK	631634	633332	634332	634332	634866	634866	Turn-up limit (dBm)	MPR (dB)
60	QPSK	631634	633332	634332	634332	634866	634866	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.11	15.10	15.25	15.25	16.5	0.0
Channel									
50	QPSK	631334	633332	635332	635332	635866	635866	Turn-up limit (dBm)	MPR (dB)
50	QPSK	631334	633332	635332	635332	635866	635866	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.11	15.16	15.19	15.19	16.5	0.0
Channel									
40	QPSK	631000	632332	636966	636966	637500	637500	Turn-up limit (dBm)	MPR (dB)
40	QPSK	631000	632332	636966	636966	637500	637500	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.11	15.12	15.14	15.14	16.5	0.0
Channel									
30	QPSK	630668	633332	636000	636000	636534	636534	Turn-up limit (dBm)	MPR (dB)
30	QPSK	630668	633332	636000	636000	636534	636534	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.29	15.19	15.23	15.23	16.5	0.0
Channel									
25	QPSK	632550	633332	637150	637150	637684	637684	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.08	15.22	15.22	15.22	16.5	0.0
Channel									
20	QPSK	632250	633332	637250	637250	637784	637784	Turn-up limit (dBm)	MPR (dB)
20	QPSK	632250	633332	637250	637250	637784	637784	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.19	15.23	15.29	15.29	16.5	0.0

Part270_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)
100	Channel			3750	14.92	65000			
	Frequency (MHz)				14.92				
100	PI2 BPSK	1	1		14.87			16.5	0.0
100	PI2 BPSK	1	137		14.78				
100	PI2 BPSK	135	0		14.87			16.5	0.0
100	PI2 BPSK	135	69		14.89			16.5	0.0
100	PI2 BPSK	135	136		14.88			16.5	0.0
100	PI2 BPSK	270	0		14.97			16.5	0.0
100	QPSK	1	1		15.00				
100	QPSK	1	137		14.86			16.5	0.0
100	QPSK	1	271		14.84				
100	QPSK	135	0		14.86			16.5	0.0
100	QPSK	135	69		15.85			16.5	0.0
100	QPSK	135	136		14.84			16.5	0.0
100	QPSK	270	0		14.89			16.5	0.0
100	16QAM	1	1		14.98			16.5	0.0
100	64QAM	1	1		14.87			16.5	0.0
100	256QAM	1	1		14.88			16.5	0.0
90	Channel			646969	65000	650332			
	Frequency (MHz)			3746.09	3750	3764.58			
90	QPSK	1	1	14.63	14.52	14.68		16.5	0.0
80	Channel			646334	65000	650668			
	Frequency (MHz)			3738.0	3750	3762.59			
80	QPSK	1	1	14.71	14.69	14.52		16.5	0.0
70	Channel			646000	65000	651000			
	Frequency (MHz)			3735	3750	3765			
70	QPSK	1	1	14.68	14.50	14.52		16.5	0.0
60	Channel			646000	65000	651368			
	Frequency (MHz)			3730.02	3750	3763.98			
60	QPSK	1	1	14.55	14.66	14.53		16.5	0.0
50	Channel			645234	65000	651695			
	Frequency (MHz)			3725.91	3750	3774.99			
50	QPSK	1	1	14.56	14.62	14.50		16.5	0.0
40	Channel			644800	65000	652000			
	Frequency (MHz)			3730	3750	3760			
40	QPSK	1	1	14.61	14.63	14.76		16.5	0.0
30	Channel			647698	65000	652652			
	Frequency (MHz)			3715.02	3750	3764.98			
30	QPSK	1	1	14.57	14.58	14.57		16.5	0.0
25	Channel			647334	65000	652698			
	Frequency (MHz)			3716.01	3750	3769.99			
25	QPSK	1	1	14.68	14.57	14.64		16.5	0.0
20	Channel			647010	65000	652832			
	Frequency (MHz)			3707.52	3750	3792.48			
20	QPSK	1	1	14.84	14.60	14.51		16.5	0.0
15	Channel			647000	65000	653000			
	Frequency (MHz)			3705	3750	3795			
15	QPSK	1	1	14.62	14.53	14.67		16.5	0.0



Part27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332	633332			
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1		13.63				
100	PI2 BPSK	1	137		13.59		15.5	0.0	
100	PI2 BPSK	1	271		13.60				
100	PI2 BPSK	135	0		13.66		15.5	0.0	
100	PI2 BPSK	135	69		13.51		15.5	0.0	
100	PI2 BPSK	135	138		13.68		15.5	0.0	
100	PI2 BPSK	270	0		13.62				
100	QPSK	1	1		13.50				
100	QPSK	1	137		13.63		15.5	0.0	
100	QPSK	1	271		13.70				
100	QPSK	135	0		13.61		15.5	0.0	
100	QPSK	135	69		13.55				
100	QPSK	135	138		13.67				
100	QPSK	270	0		13.52		15.5	0.0	
100	16QAM	1	1		13.73		15.5	0.0	
100	64QAM	1	1		13.64		15.5	0.0	
100	256QAM	1	1		13.59		15.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3492	3499.98	3504.99			
90	QPSK	1	1		13.63	13.59	13.55	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1		13.70	13.67	13.68	15.5	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1		13.68	13.60	13.76	15.5	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3499.98	3516.99			
60	QPSK	1	1		13.72	13.74	13.74	15.5	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3473.02	3499.98	3525			
50	QPSK	1	1		13.69	13.60	13.53	15.5	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1		13.59	13.72	13.64	15.5	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1		13.66	13.59	13.51	15.5	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1		13.55	13.74	13.69	15.5	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1		13.62	13.67	13.63	15.5	
Channel				630000	633332	636332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1		13.66	13.56	13.55	15.5	

Part27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633550	633550	633550			
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		13.73				
100	PI2 BPSK	1	137		13.72		15.5	0.0	
100	PI2 BPSK	1	271		13.84				
100	PI2 BPSK	135	0		13.52		15.5	0.0	
100	PI2 BPSK	135	69		13.72		15.5	0.0	
100	PI2 BPSK	135	138		13.58		15.5	0.0	
100	PI2 BPSK	270	0		13.73				
100	QPSK	1	1		13.55				
100	QPSK	1	137		13.75		15.5	0.0	
100	QPSK	1	271		13.81				
100	QPSK	135	0		13.54		15.5	0.0	
100	QPSK	135	69		13.65				
100	QPSK	135	138		13.68				
100	QPSK	270	0		13.58		15.5	0.0	
100	16QAM	1	1		13.61		15.5	0.0	
100	64QAM	1	1		13.58		15.5	0.0	
100	256QAM	1	1		13.69		15.5	0.0	
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3742.02	3750	3754.98			
90	QPSK	1	1		13.71	13.69	13.69	15.5	
Channel				646334	650000	650666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.11	3750.1	3760.09			
80	QPSK	1	1		13.71	13.77	13.61	15.5	
Channel				645990	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		13.72	13.74	13.61	15.5	
Channel				646668	650000	651332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3750.02	3750	3760.98			
60	QPSK	1	1		13.80	13.78	13.91	15.5	
Channel				646334	650000	651666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1		13.77	13.64	13.74	15.5	
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		13.66	13.62	13.84	15.5	
Channel				641668	650000	652532	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1		13.81	13.86	13.71	15.5	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3786.99			
25	QPSK	1	1		13.85	13.82	13.83	15.5	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1		13.70	13.63	13.77	15.5	
Channel				641000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1		13.60	13.68	13.85	15.5	



Part27Q_n78_Ant 21										
BW [MHz]	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	PI2 BPSK	1	1		12.14					
100	PI2 BPSK	1	137		12.13		14.0	0.0		
100	PI2 BPSK	1	271		12.16					
100	PI2 BPSK	135	0		12.04		14.0	0.0		
100	PI2 BPSK	135	69		12.12		14.0	0.0		
100	PI2 BPSK	135	138		12.05					
100	PI2 BPSK	270	0		12.08		14.0	0.0		
100	QPSK	1	1		12.25					
100	QPSK	1	137		12.21		14.0	0.0		
100	QPSK	1	271		12.26					
100	QPSK	135	0		12.02					
100	QPSK	135	69		12.21		14.0	0.0		
100	QPSK	135	138		12.10					
100	QPSK	270	0		12.16		14.0	0.0		
100	16QAM	1	1		12.13		14.0	0.0		
100	64QAM	1	1		12.20		14.0	0.0		
100	256QAM	1	1		12.18		14.0	0.0		
Channel				633000	633332	634666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3492	3499.98	3504.98				
90	QPSK	1	1		12.24	12.09	12.17	14.0	0.0	
Channel				630668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3499.98	3510				
80	QPSK	1	1		12.25	12.25	12.10	14.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01	3499.98	3514.98				
70	QPSK	1	1		12.05	12.06	12.02	14.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3484	3499.98	3518.98				
60	QPSK	1	1		12.21	12.05	12.09	14.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3479.02	3499.98	3525				
50	QPSK	1	1		12.10	12.09	12.10	14.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3499.98	3529.98				
40	QPSK	1	1		12.09	12.13	12.07	14.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3499.98	3534.98				
30	QPSK	1	1		12.15	12.09	12.12	14.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3499.98	3540				
25	QPSK	1	1		12.08	12.10	12.24	14.0	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3457.5	3499.98	3542.48				
20	QPSK	1	1		12.15	12.10	12.25	14.0	0.0	
Channel				631334	633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3455.01	3499.98	3544.98				
15	QPSK	1	1		12.16	12.06	12.20	14.0	0.0	

Part27Q_n78_Ant 21										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				630000	630000	3750				
Frequency (MHz)										
100	PI2 BPSK	1	1		12.22					
100	PI2 BPSK	1	137		12.28		14.0	0.0		
100	PI2 BPSK	1	271		12.15					
100	PI2 BPSK	135	0		12.06		14.0	0.0		
100	PI2 BPSK	135	69		12.32		14.0	0.0		
100	PI2 BPSK	135	138		12.02					
100	PI2 BPSK	270	0		12.26		14.0	0.0		
100	QPSK	1	1		12.37					
100	QPSK	1	137		12.32		14.0	0.0		
100	QPSK	1	271		12.33					
100	QPSK	135	0		12.11					
100	QPSK	135	69		12.35		14.0	0.0		
100	QPSK	135	138		12.23					
100	QPSK	270	0		12.30		14.0	0.0		
100	16QAM	1	1		12.09		14.0	0.0		
100	64QAM	1	1		12.21		14.0	0.0		
100	256QAM	1	1		12.23		14.0	0.0		
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3754.98				
90	QPSK	1	1		12.25	12.32	12.31	14.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3759.99				
80	QPSK	1	1		12.23	12.22	12.20	14.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		12.36	12.28	12.26	14.0	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.01	3750	3764.98				
60	QPSK	1	1		12.29	12.16	12.32	14.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3774.99				
50	QPSK	1	1		12.21	12.17	12.34	14.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		12.35	12.36	12.32	14.0	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3784.98				
30	QPSK	1	1		12.19	12.29	12.26	14.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3789.99				
25	QPSK	1	1		12.29	12.35	12.25	14.0	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.48				
20	QPSK	1	1		12.10	12.25	12.30	14.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
15	QPSK	1	1		12.37	12.16	12.26	14.0	0.0	



Reduced Power for DSI 4

n2_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				1860	1880	1900	24.0	0.0	
Frequency (MHz)				372000	376000	380000			
20	Pl2 BPSK	1	1	22.84	22.86	22.84	24.0	0.0	
20	Pl2 BPSK	1	53	22.77	22.85	22.82			
20	Pl2 BPSK	1	104	22.76	22.82	22.77			
20	Pl2 BPSK	50	0	22.28	22.32	22.28	23.5	0.5	
20	Pl2 BPSK	50	28	22.75	22.84	22.74	24.0	0.0	
20	Pl2 BPSK	50	56	22.24	22.32	22.22	23.5	0.5	
20	Pl2 BPSK	100	0	22.26	22.34	22.31			
20	QPSK	1	1	22.85	22.88	22.85			
20	QPSK	1	53	22.77	22.85	22.79	24.0	0.0	
20	QPSK	1	104	22.75	22.83	22.78			
20	QPSK	50	0	22.14	22.16	22.08	23.0	1.0	
20	QPSK	50	28	22.71	22.80	22.76	24.0	0.0	
20	QPSK	50	56	22.05	22.10	22.00	23.0	1.0	
20	QPSK	100	0	22.08	22.12	22.08	23.0	1.0	
20	8QAM	1	1	22.46	22.55	22.54			
20	8QAM	1	1	20.84	20.85	20.78	21.5	2.5	
20	256QAM	1	1	18.87	18.88	18.90	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dB)		
15	QPSK	1	1	22.76	22.80	22.83	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1865	1880	1905	(dB)		
10	QPSK	1	1	22.50	22.52	22.77	24.0	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1862.5	1880	1907.5	(dB)		
5	QPSK	1	1	22.79	22.81	22.84	24.0	0.0	

n2_Ant 31									
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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	20.43	20.52	20.31	22.0	0.0	
20	Pl2 BPSK	1	53	20.32	20.40	20.43			
20	Pl2 BPSK	1	104	20.30	20.44	20.38			
20	Pl2 BPSK	50	0	20.46	20.47	20.45	22.0	0.0	
20	Pl2 BPSK	50	28	20.39	20.46	20.32	22.0	0.0	
20	Pl2 BPSK	50	56	20.41	20.33	20.35	22.0	0.0	
20	Pl2 BPSK	100	0	20.44	20.51	20.39			
20	QPSK	1	1	20.52	20.56	20.53			
20	QPSK	1	53	20.42	20.51	20.40	22.0	0.0	
20	QPSK	1	104	20.36	20.36	20.38			
20	QPSK	50	0	20.39	20.39	20.38	22.0	0.0	
20	QPSK	50	28	20.42	20.50	20.45	22.0	0.0	
20	QPSK	50	56	20.41	20.39	20.41	22.0	0.0	
20	QPSK	100	0	20.37	20.48	20.40	22.0	0.0	
20	16QAM	1	1	20.41	20.37	20.38			
20	64QAM	1	1	20.46	20.47	20.44	22.0	0.0	
20	256QAM	1	1	18.83	19.02	18.95	20.0	2.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	(dB)		
15	QPSK	1	1	20.43	20.51	20.37	22.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	(dB)		
10	QPSK	1	1	20.38	20.38	20.46	22.0	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	(dB)		
5	QPSK	1	1	20.38	20.41	20.33	22.0	0.0	

n5_Ant 13									
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				186800	187300	187800	25.0	0.0	
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	24.01	24.05	24.04	25.0	0.0	
20	Pl2 BPSK	1	53	23.90	23.96	23.95			
20	Pl2 BPSK	1	104	23.76	23.84	23.78			
20	Pl2 BPSK	50	0	23.40	23.44	23.34	24.5	0.5	
20	Pl2 BPSK	50	28	23.93	23.98	23.88	25.0	0.0	
20	Pl2 BPSK	50	56	23.38	23.44	23.36	24.5	0.5	
20	Pl2 BPSK	100	0	23.34	23.42	23.34			
20	QPSK	1	1	24.12	24.14	24.08			
20	QPSK	1	53	24.06	24.08	23.99	25.0	0.0	
20	QPSK	1	104	23.90	23.93	23.86			
20	QPSK	50	0	23.20	23.26	23.17	24.0	1.0	
20	QPSK	50	28	23.93	23.96	23.85	25.0	0.0	
20	QPSK	50	56	23.20	23.25	23.21	24.0	1.0	
20	QPSK	100	0	23.30	23.35	23.33	24.0	1.0	
20	8QAM	1	1	23.63	23.71	23.66			
20	8QAM	1	1	21.98	22.03	21.94	22.5	2.5	
20	256QAM	1	1	20.11	20.16	20.13	20.5	4.5	
Channel				186300	187300	188300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				841.5	846.5	851.5	(dBm)		
15	QPSK	1	1	24.09	24.11	24.02	25.0	0.0	
Channel				186800	187300	188800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826	836.5	844	(dBm)		
10	QPSK	1	1	24.03	24.07	24.06	25.0	0.0	
Channel				187300	187300	187300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	836.5	(dBm)		
5	QPSK	1	1	23.95	23.98	23.94	25.0	0.0	

n5_Ant 31										
BW [MHz]	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	25.5	0.0		
Frequency (MHz)				834	836.5	838				
20	PI2 BPSK	1	1	24.06	24.14	24.12	25.5	0.0		
20	PI2 BPSK	1	53	23.93	24.01	23.96				
20	PI2 BPSK	1	104	23.85	23.91	23.90				
20	PI2 BPSK	50	0	23.34	23.43	23.42	25.0	0.5		
20	PI2 BPSK	50	26	23.76	23.96	23.89	25.5	0.0		
20	PI2 BPSK	50	56	23.25	23.40	23.33	25.0	0.5		
20	PI2 BPSK	100	0	23.43	23.51	23.46				
20	QPSK	1	1	24.16	24.19	24.11				
20	QPSK	1	53	23.92	24.02	23.93	25.5	0.0		
20	QPSK	1	104	23.77	23.91	23.83	24.5	1.0		
20	QPSK	50	0	23.96	23.24	23.18				
20	QPSK	50	26	23.97	24.03	24.00				
20	QPSK	50	56	23.08	23.22	23.15	24.5	1.0		
20	QPSK	100	0	23.19	23.29	23.27	24.5	1.0		
20	16QAM	1	1	23.43	23.63	23.53	24.5	1.0		
20	64QAM	1	1	21.92	22.02	21.98	23.0	2.5		
20	256QAM	1	1	19.97	20.16	20.07	21.0	4.5		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR		
15	QPSK	1	1	23.95	24.00	23.89	25.5	0.0		
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR		
10	QPSK	1	1	23.80	23.87	23.87	25.5	0.0		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR		
5	QPSK	1	1	23.86	23.95	23.80	25.5	0.0		

n7_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				504000	507000	510000				
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	22.65	22.75	22.69	24.0	0.0		
40	PI2 BPSK	1	108	22.63	22.72	22.67				
40	PI2 BPSK	1	214	22.43	22.48	22.47				
40	PI2 BPSK	108	0	22.23	22.26	22.22	23.5	0.5		
40	PI2 BPSK	108	54	22.65	22.70	22.69	24.0	0.0		
40	PI2 BPSK	108	108	22.15	22.17	22.09	23.5	0.5		
40	PI2 BPSK	216	0	22.03	22.13	22.08				
40	QPSK	1	1	22.95	22.89	22.95				
40	QPSK	1	108	22.80	22.82	22.72	24.0	0.0		
40	QPSK	1	214	22.74	22.80	22.75				
40	QPSK	108	0	21.97	22.03	21.96	23.0	1.0		
40	QPSK	108	54	22.55	22.60	22.56	24.0	0.0		
40	QPSK	108	108	21.92	21.95	21.93	23.0	1.0		
40	QPSK	216	0	22.05	22.09	22.08	23.0	1.0		
40	16QAM	1	1	22.26	22.36	22.32				
40	64QAM	1	1	20.71	20.80	20.77	21.5	2.5		
40	256QAM	1	1	18.85	18.93	18.92	19.5	4.5		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	22.75	22.86	22.83	24.0	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	2512.5	2535	2557.5	24.0	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	22.82	22.80	22.80	24.0	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	22.84	22.84	22.86	24.0	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	22.81	22.85	22.86	24.0	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	22.77	22.80	22.79	24.0	0.0		

n7_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				504000	507000	510000	20.5	0.0		
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	19.15	19.07	19.14	20.5	0.0		
40	PI2 BPSK	1	108	19.11	19.21	19.22				
40	PI2 BPSK	1	214	19.21	19.26	19.06				
40	PI2 BPSK	108	0	19.18	19.15	19.18	20.5	0.0		
40	PI2 BPSK	108	54	19.09	19.21	19.07	20.5	0.0		
40	PI2 BPSK	108	108	19.13	19.24	19.08	20.5	0.0		
40	PI2 BPSK	216	0	19.17	19.19	19.20				
40	QPSK	1	1	19.25	19.30	19.29				
40	QPSK	1	108	19.20	19.10	19.13	20.5	0.0		
40	QPSK	1	214	19.18	19.24	19.22				
40	QPSK	108	0	19.19	19.24	19.17	20.5	0.0		
40	QPSK	108	54	19.22	19.28	19.24	20.5	0.0		
40	QPSK	108	108	19.20	19.16	19.07	20.5	0.0		
40	QPSK	216	0	19.17	19.21	19.14				
40	16QAM	1	1	19.09	19.24	19.24	20.5	0.0		
40	64QAM	1	1	19.04	19.07	19.17	20.5	0.0		
40	256QAM	1	1	19.20	19.25	19.21	20.0	0.5		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	19.08	19.16	19.17	20.5	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.05	19.22	19.21	20.5	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	19.14	19.10	19.15	20.5	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	19.13	19.12	19.12	20.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	19.07	19.12	19.06	20.5	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	19.22	19.11	19.20	20.5	0.0		

n7_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				50500	50700	51000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	21.61	21.78	21.65	23.0	0.0		
40	PI2 BPSK	1	108	21.55	21.60	21.61				
40	PI2 BPSK	1	214	21.55	21.73	21.65				
40	PI2 BPSK	108	0	21.58	21.68	21.57	23.0	0.0		
40	PI2 BPSK	108	54	21.58	21.64	21.72	23.0	0.0		
40	PI2 BPSK	108	108	21.68	21.66	21.58	23.0	0.0		
40	PI2 BPSK	216	0	21.63	21.71	21.64				
40	QPSK	1	1	21.71	21.80	21.74				
40	QPSK	1	108	21.55	21.77	21.63	23.0	0.0		
40	QPSK	1	214	21.63	21.62	21.70				
40	QPSK	108	0	21.58	21.61	21.60				
40	QPSK	108	54	21.55	21.76	21.58	23.0	0.0		
40	QPSK	108	108	21.58	21.68	21.64	23.0	0.0		
40	QPSK	216	0	21.55	21.74	21.65	23.0	0.0		
40	16QAM	1	1	21.58	21.64	21.62				
40	64QAM	1	1	20.91	21.07	20.98				
40	256QAM	1	1	19.03	19.19	19.11	20.0	3.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2512	2533	2552	(dBm)	(dB)		
30	QPSK	1	1	21.51	21.69	21.54	23.0	0.0		
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	QPSK	1	1	21.58	21.60	21.60	23.0	0.0		
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	QPSK	1	1	21.59	21.59	21.63	23.0	0.0		
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2500	2535	2565	(dBm)	(dB)		
15	QPSK	1	1	21.61	21.68	21.64	23.0	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2500	2535	2565	(dBm)	(dB)		
10	QPSK	1	1	21.66	21.71	21.63	23.0	0.0		
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	21.62	21.59	21.67	23.0	0.0		

n26_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				164000	166300	167800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	23.92	23.95	23.87	25.0	0.0		
20	PI2 BPSK	1	53	23.93	23.96	23.89				
20	PI2 BPSK	1	104	23.92	23.90	23.95				
20	PI2 BPSK	50	0	23.39	23.47	23.44	24.5	0.5		
20	PI2 BPSK	50	28	23.88	23.96	23.89	25.0	0.0		
20	PI2 BPSK	50	56	23.34	23.39	23.36	24.5	0.5		
20	PI2 BPSK	100	0	23.29	23.37	23.31				
20	QPSK	1	1	23.95	24.18	23.54				
20	QPSK	1	53	23.91	23.94	23.92	25.0	0.0		
20	QPSK	1	104	23.89	23.96	23.90				
20	QPSK	50	0	23.21	23.22	23.17	24.0	1.0		
20	QPSK	50	28	23.93	23.95	23.95	25.0	0.0		
20	QPSK	50	56	23.15	23.16	23.07	24.0	1.0		
20	QPSK	100	0	23.16	23.20	23.10	24.0	1.0		
20	16QAM	1	1	23.50	23.58	23.58				
20	64QAM	1	1	21.79	21.88	21.86				
20	256QAM	1	1	19.97	20.01	20.00	20.5	4.5		
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)		
15	QPSK	1	1	23.93	23.89	23.92	25.0	0.0		
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR		
Frequency (MHz)				819	831.5	844	(dBm)	(dB)		
10	QPSK	1	1	23.92	23.89	23.89	25.0	0.0		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	23.94	23.96	23.84	25.0	0.0		

n26_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				164000	166300	167800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	23.74	23.90	23.83	25.5	0.0		
20	PI2 BPSK	1	53	23.83	23.94	23.84				
20	PI2 BPSK	1	104	23.75	23.87	23.81				
20	PI2 BPSK	50	0	23.28	23.37	23.28	25.0	0.5		
20	PI2 BPSK	50	28	23.84	23.91	23.85	25.5	0.0		
20	PI2 BPSK	50	56	23.27	23.37	23.28	25.0	0.5		
20	PI2 BPSK	100	0	23.30	23.42	23.40				
20	QPSK	1	1	23.91	23.96	23.93				
20	QPSK	1	53	23.80	23.89	23.86	25.5	0.0		
20	QPSK	1	104	23.79	23.91	23.85				
20	QPSK	50	0	23.68	23.19	23.16	24.5	1.0		
20	QPSK	50	28	23.95	23.94	23.94	25.5	0.0		
20	QPSK	50	56	23.03	23.18	23.10	24.5	1.0		
20	QPSK	100	0	23.11	23.21	23.17				
20	16QAM	1	1	23.43	23.52	23.44	24.5	1.0		
20	64QAM	1	1	21.84	21.92	21.91	23.0	2.5		
20	256QAM	1	1	19.99	20.09	20.07	21.0	4.5		
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)		
15	QPSK	1	1	23.90	23.92	23.90	25.5	0.0		
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR		
Frequency (MHz)				819	831.5	844	(dBm)	(dB)		
10	QPSK	1	1	23.72	23.76	23.73	25.5	0.0		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	23.71	23.78	23.76	25.5	0.0		

n66_Ant 11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	24.5	0.0		
Frequency (MHz)										
40	PI2 BPSK	1	1	23.27	23.30	23.24	24.5	0.0		
40	PI2 BPSK	1	108	23.15	23.21	23.16				
40	PI2 BPSK	1	214	23.15	23.24	23.16				
40	PI2 BPSK	108	0	22.77	22.85	22.77	24.0	0.5		
40	PI2 BPSK	108	54	23.18	23.20	23.16	24.5	0.0		
40	PI2 BPSK	108	108	22.72	22.75	22.74	24.0	0.5		
40	PI2 BPSK	216	0	22.67	22.74	22.69	24.5	0.0		
40	QPSK	1	1	23.25	23.31	23.23				
40	QPSK	1	108	23.24	23.29	23.20				
40	QPSK	1	214	23.20	23.23	23.20	23.5	1.0		
40	QPSK	108	0	22.61	22.69	22.67				
40	QPSK	108	54	23.15	23.23	23.16				
40	QPSK	108	108	22.50	22.53	22.44	23.5	1.0		
40	QPSK	216	0	22.55	22.61	22.51	23.5	1.0		
40	16QAM	1	1	22.38	22.97	22.89	22.0	2.5		
40	64QAM	1	1	21.24	21.27	21.17	22.0	2.5		
40	256QAM	1	1	19.53	19.61	19.60	20.0	4.5		
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
35	QPSK	1	1	23.21	23.21	23.15	24.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	23.17	23.22	23.10	24.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1722.5	1745	1767.5				
25	QPSK	1	1	23.22	23.24	23.16	24.5	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	23.24	23.24	23.21	24.5	0.0		
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	23.23	23.30	23.21	24.5	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	23.21	23.29	23.13	24.5	0.0		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	23.25	23.27	23.20	24.5	0.0		

n66_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				1730	1745	1760	24.5	0.0		
Frequency (MHz)										
40	PI2 BPSK	1	1	23.61	23.77	23.80	24.5	0.0		
40	PI2 BPSK	1	108	23.64	23.75	23.69				
40	PI2 BPSK	1	214	23.57	23.72	23.74				
40	PI2 BPSK	108	0	23.73	23.74	23.73	24.5	0.0		
40	PI2 BPSK	108	54	23.71	23.68	23.68	24.5	0.0		
40	PI2 BPSK	108	108	23.75	23.75	23.79	24.5	0.0		
40	PI2 BPSK	216	0	23.63	23.85	23.70	24.5	0.0		
40	QPSK	1	1	23.78	23.91	23.83				
40	QPSK	1	108	23.66	23.89	23.72				
40	QPSK	1	214	23.58	23.87	23.64	24.0	0.5		
40	QPSK	108	0	23.57	23.71	23.67				
40	QPSK	108	54	23.71	23.84	23.69				
40	QPSK	108	108	23.38	23.48	23.44	24.0	0.5		
40	QPSK	216	0	23.58	23.66	23.58	24.0	0.5		
40	16QAM	1	1	23.59	23.88	23.69	24.0	0.5		
40	64QAM	1	1	22.23	22.32	22.30	22.5	2.0		
40	256QAM	1	1	20.48	20.49	20.46	20.5	4.0		
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1727.5	1745	1762.5				
35	QPSK	1	1	23.75	23.88	23.70	24.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	23.67	23.72	23.77	24.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1722.5	1745	1767.5				
25	QPSK	1	1	23.70	23.84	23.63	24.5	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	23.61	23.84	23.62	24.5	0.0		
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	23.63	23.72	23.67	24.5	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	23.70	23.88	23.65	24.5	0.0		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	23.64	23.86	23.69	24.5	0.0		

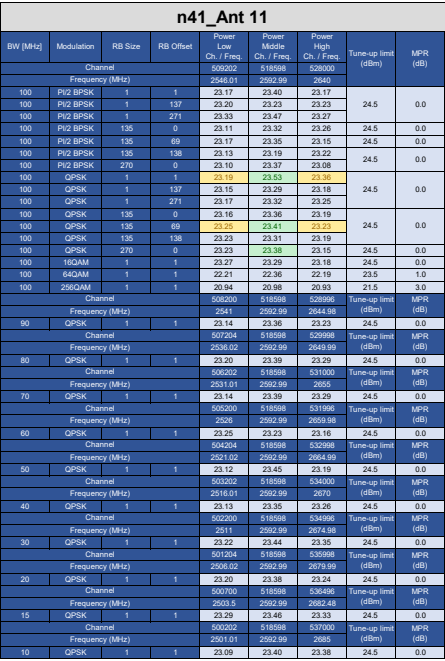
n66_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				345000	349000	353000	21.5	0.0		
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	20.96	20.95	20.74	21.5	0.0		
40	PI2 BPSK	1	108	20.82	20.90	20.73				
40	PI2 BPSK	1	214	20.93	20.96	20.85				
40	PI2 BPSK	108	0	20.80	20.86	20.72	21.5	0.0		
40	PI2 BPSK	108	54	20.84	20.84	20.82	21.5	0.0		
40	PI2 BPSK	108	108	20.87	20.84	20.74	21.5	0.0		
40	PI2 BPSK	216	0	20.84	20.85	20.77	21.5	0.0		
40	QPSK	1	1	20.98	21.04	20.92				
40	QPSK	1	108	20.86	20.90	20.76				
40	QPSK	1	214	20.85	20.84	20.88	20.8	0.0		
40	QPSK	108	0	20.83	20.88	20.78				
40	QPSK	108	54	20.87	20.95	20.80				
40	QPSK	108	108	20.85	20.80	20.77	21.5	0.0		
40	QPSK	216	0	20.85	20.88	20.81	21.5	0.0		
40	16QAM	1	1	20.84	20.86	20.83	21.5	0.0		
40	64QAM	1	1	20.89	20.89	20.82	21.5	0.0		
40	256QAM	1	1	20.45	20.47	20.35	20.5	1.0		
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1727.5	1745	1762.5				
35	QPSK	1	1	20.88	20.99	20.77	21.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	20.70	20.84	20.61	21.5	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1722.5	1745	1767.5				
25	QPSK	1	1	20.78	20.93	20.89	21.5	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5 <th>21.5<td>0.0</td><td colspan="2"></td></th>	21.5 <td>0.0</td> <td colspan="2"></td>	0.0		
15	QPSK	1	1	20.85	20.93	20.81	21.5	0.0		
Channel				345000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	20.85	20.92	20.75	21.5	0.0		
Channel				345000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1772.5				
5	QPSK	1	1	20.89	20.91	20.80	21.5	0.0		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	518000	519996			
				2590.02	2595	2599.98			
40	Pl/2 BPSK	1	1	23.28	23.49	23.23			
40	Pl/2 BPSK	1	53	23.34	23.32	23.31	24.5	0.0	
40	Pl/2 BPSK	1	104	23.34	23.40	23.35			
40	Pl/2 BPSK	50	0	23.33	23.49	23.32	24.5	0.0	
40	Pl/2 BPSK	50	28	23.28	23.33	23.20	24.5	0.0	
40	Pl/2 BPSK	50	56	23.28	23.46	23.21			
40	Pl/2 BPSK	100	0	23.29	23.34	23.28	24.5	0.0	
40	QPSK	1	1	23.44	23.51	23.40			
40	QPSK	1	53	23.30	23.38	23.19	24.5	0.0	
40	QPSK	1	104	23.37	23.33	23.25			
40	QPSK	50	0	23.33	23.38	23.36			
40	QPSK	50	28	23.37	23.46	23.11	24.5	0.0	
40	QPSK	50	56	23.37	23.48	23.24			
40	QPSK	100	0	23.36	23.42	23.38	24.5	0.0	
40	16QAM	1	1	23.27	23.38	23.27	24.5	0.0	
40	64QAM	1	1	22.99	23.02	22.95	23.5	1.0	
40	256QAM	1	1	20.70	20.71	20.66	21.5	3.0	
Channel									
Frequency (MHz)				517002 <th>519000<th>520998</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	519000 <th>520998</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99 <th></th> <th></th> <th></th>			
30	QPSK	1	1	23.27	23.38	23.31	24.5	0.0	
Channel									
Frequency (MHz)				518000 <th>519000<th>522000</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	519000 <th>522000</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	522000	Tune-up limit (dBm)	MPR (dB)	
				2590	2595	2610			
20	QPSK	1	1	23.25	23.37	23.19	24.5	0.0	
Channel									
Frequency (MHz)				516502 <th>518000<th>522498</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	518000 <th>522498</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	522498	Tune-up limit (dBm)	MPR (dB)	
				2577.51 <th>2595</th> <th>2612.49<th></th><th></th><th></th></th>	2595	2612.49 <th></th> <th></th> <th></th>			
15	QPSK	1	1	23.40	23.31	23.30	24.5	0.0	
Channel									
Frequency (MHz)				515004 <th>519000<th>522998</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	519000 <th>522998</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	522998	Tune-up limit (dBm)	MPR (dB)	
				2614.02	2605	2614.98			
10	QPSK	1	1	23.37	23.45	23.22	24.5	0.0	
Channel									
Frequency (MHz)				514500 <th>519000<th>523500</th><th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>	519000 <th>523500</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	523500	Tune-up limit (dBm)	MPR (dB)	
				2572.5 <th>2595</th> <th>2617.5<th></th><th></th><th></th></th>	2595	2617.5 <th></th> <th></th> <th></th>			
5	QPSK	1	1	23.24	23.35	23.36	24.5	0.0	

n38_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)				518004	519000	519996			
				2590	2595	2599.98			
40	Pl/2 BPSK	1	1	19.37	19.44	19.29			
40	Pl/2 BPSK	1	53	19.30	19.39	19.32	21.0	0.0	
40	Pl/2 BPSK	1	104	19.24	19.33	19.24			
40	Pl/2 BPSK	50	0	19.24	19.37	19.18	21.0	0.0	
40	Pl/2 BPSK	50	28	19.28	19.39	19.33	21.0	0.0	
40	Pl/2 BPSK	50	56	19.23	19.19	19.12			
40	Pl/2 BPSK	100	0	19.35	19.34	19.25	21.0	0.0	
40	QPSK	1	1	19.45	19.50	19.47			
40	QPSK	1	53	19.28	19.34	19.38	21.0	0.0	
40	QPSK	1	104	19.36	19.49	19.36			
40	QPSK	50	0	19.31	19.36	19.30	21.0	0.0	
40	QPSK	50	28	19.37	19.38	19.28	21.0	0.0	
40	QPSK	50	56	19.37	19.35	19.29			
40	QPSK	100	0	19.16	19.22	19.19	21.0	0.0	
40	16QAM	1	1	19.20	19.19	19.26	21.0	0.0	
40	64QAM	1	1	19.18	19.23	19.14	21.0	0.0	
40	256QAM	1	1	19.38	19.43	19.35	21.0	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
30	QPSK	1	1	19.22	19.31	19.33	21.0	0.0	
Channel									
Frequency (MHz)				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
				2590	2595	2610			
20	QPSK	1	1	19.13	19.27	19.23	21.0	0.0	
Channel									
Frequency (MHz)				517002	518000	522998	Tune-up limit (dBm)	MPR (dB)	
				2577.51	2595	2612.49			
15	QPSK	1	1	19.29	19.34	19.32	21.0	0.0	
Channel									
Frequency (MHz)				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
				2614.02	2605	2614.98			
10	QPSK	1	1	19.30	19.28	19.35	21.0	0.0	
Channel									
Frequency (MHz)				514500	519000	523500	Tune-up limit (dBm)	MPR (dB)	
				2572.5	2595	2617.5			
5	QPSK	1	1	19.27	19.25	19.34	21.0	0.0	

n38_Ant 31									
BW [MHz]	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)				518004	519000	519996			
				2590	2595	2599.98			
40	Pl/2 BPSK	1	1	21.17	21.22	21.21			
40	Pl/2 BPSK	1	53	21.02	21.10	21.12	22.5	0.0	
40	Pl/2 BPSK	1	104	21.04	21.13	21.19			
40	Pl/2 BPSK	50	0	21.11	21.19	21.07	22.5	0.0	
40	Pl/2 BPSK	50	28	20.97	21.25	20.99	22.5	0.0	
40	Pl/2 BPSK	50	56	21.09	21.16	21.11			
40	Pl/2 BPSK	100	0	21.15	21.20	21.09	22.5	0.0	
40	QPSK	1	1	21.21	21.27	21.24			
40	QPSK	1	53	21.03	21.19	21.21	22.5	0.0	
40	QPSK	1	104	21.20	21.25	21.18			
40	QPSK	50	0	21.18	21.23	21.05	22.5	0.0	
40	QPSK	50	28	21.12	21.16	21.05	22.5	0.0	
40	QPSK	50	56	21.05	21.23	21.18			
40	QPSK	100	0	21.07	21.15	21.00	22.5	0.0	
40	16QAM	1	1	21.12	21.18	21.11	22.5	0.0	
40	64QAM	1	1	21.15	21.18	21.09	22.5	0.0	
40	256QAM	1	1	21.20	21.25	21.24	22.0	0.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
30	QPSK	1	1	21.06	20.98	21.13	22.5	0.0	
Channel									
Frequency (MHz)				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
				2590	2595	2610			
20	QPSK	1	1	20.94	21.10	21.02	22.5	0.0	
Channel									
Frequency (MHz)				517002	518000	522998	Tune-up limit (dBm)	MPR (dB)	
				2577.51	2595	2612.49			
15	QPSK	1	1	20.94	21.08	20.97	22.5	0.0	
Channel									
Frequency (MHz)				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
				2614.02	2605	2614.98			
10	QPSK	1	1	21.02	21.08	21.09	22.5	0.0	
Channel									
Frequency (MHz)				514500	519000	523500	Tune-up limit (dBm)	MPR (dB)	
				2572.5	2595	2617.5			
5	QPSK	1	1	21.01	20.94	20.95	22.5	0.0	



n41_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	
Channel				506022	518588	528000	
Frequency (MHz)				2531.01	2562.98	2605	
100	PV2 BPSK	1	137	19.63	19.69	19.54	
100	PV2 BPSK	1	137	19.51	19.57	19.69	21.5
100	PV2 BPSK	1	137	19.53	19.61	19.68	
100	PV2 BPSK	135	0	19.57	19.61	19.61	21.5
100	PV2 BPSK	135	69	19.53	19.58	19.58	21.5
100	PV2 BPSK	135	138	19.69	19.55	19.62	21.5
100	PV2 BPSK	270	0	19.65	19.59	19.50	
100	QPSK	1	1	19.67	19.61	19.72	
100	QPSK	1	137	19.62	19.72	19.68	21.5
100	QPSK	1	271	19.56	19.78	19.82	
100	QPSK	135	0	19.60	19.59	19.66	
100	QPSK	135	69	19.51	19.63	19.55	21.5
100	QPSK	135	138	19.49	19.61	19.54	
100	QPSK	270	0	19.57	19.60	19.56	
100	16QAM	1	1	19.56	19.64	19.68	21.5
100	64QAM	1	1	19.57	19.61	19.50	21.5
100	256QAM	1	1	19.58	19.68	19.60	21.5
Channel				25521	2592.99	2644.98	
Frequency (MHz)				2552.1	2592.99	2644.98	
100	QPSK	1	1	19.79	19.74	19.74	21.5
Channel				507204	518588	529998	
Frequency (MHz)				2552.02	2592.98	2659.99	
80	QPSK	1	100	19.72	19.72	19.72	21.5
Channel				506022	518588	531000	
Frequency (MHz)				2531.01	2562.98	2605	
70	QPSK	1	1	19.68	19.76	19.63	21.5
Channel				506022	518588	533098	
Frequency (MHz)				2531.01	2562.98	2659.98	
60	QPSK	1	1	19.66	19.70	19.67	21.5
Channel				504204	518588	533098	
Frequency (MHz)				2521.02	2562.98	2654.99	
50	QPSK	1	1	19.56	19.79	19.75	21.5
Channel				503022	518588	534000	
Frequency (MHz)				2516.01	2562.98	2670	
40	QPSK	1	1	19.62	19.72	19.71	21.5
Channel				25511	2592.99	2639.98	
Frequency (MHz)				2551.1	2592.99	2674.98	
30	QPSK	1	1	19.73	19.75	19.78	21.5
Channel				501204	518588	535998	
Frequency (MHz)				2502.02	2582.98	2678.99	
20	QPSK	1	1	19.69	19.80	19.64	21.5
Channel				500700	518588	536498	
Frequency (MHz)				2503.3	2582.98	2682.48	
15	QPSK	1	1	19.60	19.78	19.78	21.5
Channel				25011	2592.99	2670.98	
Frequency (MHz)				2501.1	2592.99	2686	
10	QPSK	1x1	1	19.55	19.70	19.70	21.5

n41_Ant 31									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				506022	516988	526000			
100	P12 BPSK	1	1	22.09	22.17	22.15			
100	P12 BPSK	1	137	22.17	22.23	22.22	24.0	0.0	
100	P12 BPSK	1	271	22.25	22.35	22.37	24.0	0.0	
100	P12 BPSK	135	0	22.20	22.17	22.23	24.0	0.0	
100	P12 BPSK	135	69	22.11	22.23	22.18	24.0	0.0	
100	P12 BPSK	135	136	22.24	22.16	22.11	24.0	0.0	
100	P12 BPSK	270	0	22.06	22.22	22.20	24.0	0.0	
100	QPSK	1	1	22.20	22.43	22.23			
100	QPSK	1	137	22.14	22.34	22.21	24.0	0.0	
100	QPSK	1	271	22.20	22.37	22.20			
100	QPSK	135	0	22.20	22.10	22.24			
100	QPSK	135	69	22.10	22.23	22.12	24.0	0.0	
100	QPSK	135	136	22.21	22.10	22.24	24.0	0.0	
100	P16QAM	1	1	22.14	22.20	22.10	24.0	0.0	
100	64QAM	1	1	22.09	22.12	22.23	24.0	0.0	
100	256QAM	1	1	21.40	21.46	21.37	22.0	2.0	
Channel									
Frequency (MHz)				2561	2562	2564.58			
90	QPSK	1	1	22.29	22.33	22.24	24.0	0.0	
Channel									
Frequency (MHz)				507204	516988	526998	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2562.99	2562.99	2565.99			
70	QPSK	1	1	22.30	22.35	22.34	24.0	0.0	
Channel									
Frequency (MHz)				506022	516988	531000	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2551.01	2562.99	2665			
70	QPSK	1	1	22.17	22.27	22.37	24.0	0.0	
Channel									
Frequency (MHz)				506022	516988	531009	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2556	2562.99	2669.98			
60	QPSK	1	1	22.39	22.29	22.18	24.0	0.0	
Channel									
Frequency (MHz)				504204	516988	535098	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2551.99	2562.99	2654.99			
50	QPSK	1	1	22.36	22.40	22.30	24.0	0.0	
Channel									
Frequency (MHz)				503022	516988	534000	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2551.01	2562.99	2670			
40	QPSK	1	1	22.27	22.40	22.37	24.0	0.0	
Channel									
Frequency (MHz)				506022	516988	531029	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2551	2562.99	2674.98			
30	QPSK	1	1	22.26	22.39	22.40	24.0	0.0	
Channel									
Frequency (MHz)				507204	516988	535998	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2552.99	2562.99	2678.99			
20	QPSK	1	1	22.20	22.30	22.33	24.0	0.0	
Channel									
Frequency (MHz)				500700	516988	536498	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2562.99	2682.48			
15	QPSK	1	1	22.22	22.37	22.26	24.0	0.0	
Channel									
Frequency (MHz)				506022	516988	532000	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				2551.01	2562.99	2685			
10	QPSK	1	1	22.29	22.41	22.27	24.0	0.0	

Part27Q_n77_Ant 11									
BW (MHz)	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	P12 BPSK	1	1		22.34				
100	P12 BPSK	1	137		22.44		24.0	0.0	
100	P12 BPSK	1	271		22.41				
100	P12 BPSK	135	0		22.23		24.0	0.0	
100	P12 BPSK	135	69		22.34		24.0	0.0	
100	P12 BPSK	135	138		22.47		24.0	0.0	
100	P12 BPSK	270	0		22.39				
100	QPSK	1	1		22.52				
100	QPSK	1	137		22.42		24.0	0.0	
100	QPSK	1	271		22.51				
100	QPSK	135	0		22.38				
100	QPSK	135	69		22.51		24.0	0.0	
100	QPSK	135	138		22.44				
100	QPSK	270	0		22.05		23.5	0.5	
100	16QAM	1	1		22.38		23.5	0.5	
100	64QAM	1	1		20.84		22.0	2.0	
100	256QAM	1	1		19.08		20.0	4.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	
				3495	3499.98	3504.99	(dBm)	(dB)	
				22.29	22.29	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	
				3460.02	3469.98	3510	(dBm)	(dB)	
				22.14	22.16	22.21	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632234	633332	634332	Tune-up limit (dBm)	MPR	
				3465.01	3469.98	3514.98	(dBm)	(dB)	
				22.26	22.21	22.35	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR	
				3460	3469.98	3516.99	(dBm)	(dB)	
				22.33	22.35	22.26	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR	
				3475.02	3469.98	3525	(dBm)	(dB)	
				22.20	22.39	22.24	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR	
				3470.01	3469.98	3529.98	(dBm)	(dB)	
				22.40	22.46	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR	
				3475.02	3469.98	3535	(dBm)	(dB)	
				22.20	22.39	22.24	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630668	633332	636000	Tune-up limit (dBm)	MPR	
				3480.02	3469.98	3540	(dBm)	(dB)	
				22.15	22.33	22.32	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630500	633332	636166	Tune-up limit (dBm)	MPR	
				3457.5	3469.98	3542.49	(dBm)	(dB)	
				22.20	22.15	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR	
				3455.01	3469.98	3544.98	(dBm)	(dB)	
				22.31	22.21	22.34	24.0	0.0	

Part27Q_n77_Ant 11									
BW (MHz)	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	P12 BPSK	1	1		22.01	22.48	22.30		
100	P12 BPSK	1	137		22.20	22.34	22.39	24.0	0.0
100	P12 BPSK	1	271		22.26	22.24	22.33		
100	P12 BPSK	135	0		22.05	22.22	22.26	24.0	0.0
100	P12 BPSK	135	69		22.07	22.28	22.40	24.0	0.0
100	P12 BPSK	135	138		22.16	22.27	22.27	24.0	0.0
100	P12 BPSK	270	0		22.23	22.24	22.18		
100	QPSK	1	1		22.23	22.51	22.28		
100	QPSK	1	137		22.25	22.23	22.19	24.0	0.0
100	QPSK	1	271		22.09	22.38	22.25		
100	QPSK	135	0		22.21	22.25	22.44		
100	QPSK	135	69		22.17	22.35	22.21	24.0	0.0
100	QPSK	135	138		22.11	22.19	22.35		
100	QPSK	270	0		21.52	21.75	21.71	23.5	0.5
100	16QAM	1	1		21.52	21.67	22.04	23.5	0.5
100	64QAM	1	1		20.24	20.63	20.97	22.0	2.0
100	256QAM	1	1		18.63	18.97	19.17	20.0	4.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	
				3745.52	3840	3934.98	(dBm)	(dB)	
				22.18	22.17	22.32	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646334	650000	662666	Tune-up limit (dBm)	MPR	
				3740.01	3840	3939.99	(dBm)	(dB)	
				22.33	22.20	22.34	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	646000	650000	663000	Tune-up limit (dBm)	MPR	
				3735	3840	3945	(dBm)	(dB)	
				22.07	22.27	22.01	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	646068	650000	663332	Tune-up limit (dBm)	MPR	
				3730.01	3840	3949.98	(dBm)	(dB)	
				22.10	22.36	22.16	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	646334	650000	663666	Tune-up limit (dBm)	MPR	
				3725.01	3840	3954.99	(dBm)	(dB)	
				22.22	22.33	22.22	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	646000	650000	664000	Tune-up limit (dBm)	MPR	
				3720	3840	3960	(dBm)	(dB)	
				22.06	22.06	22.15	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647068	650000	664332	Tune-up limit (dBm)	MPR	
				3715.02	3840	3964.98	(dBm)	(dB)	
				22.19	22.15	22.24	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	664666	Tune-up limit (dBm)	MPR	
				3710.01	3840	3969.99	(dBm)	(dB)	
				22.30	22.27	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647168	650000	664832	Tune-up limit (dBm)	MPR	
				3707.52	3840	3972.48	(dBm)	(dB)	
				22.18	22.35	22.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647000	650000	665000	Tune-up limit (dBm)	MPR	
				3705	3840	3975	(dBm)	(dB)	
				22.09	22.34	22.17	24.0	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	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	P12 BPSK	1	1		22.04		23.5	0.0	
100	P12 BPSK	1	137		21.74				
100	P12 BPSK	135	0		21.62				
100	P12 BPSK	135	69		21.75				
100	P12 BPSK	135	138		21.69		23.0	0.5	
100	P12 BPSK	270	0		21.69		23.5	0.0	
100	QPSK	1	1		22.58				
100	QPSK	1	137		22.54				
100	QPSK	1	271		22.34				
100	QPSK	135	0		21.53		23.5	0.0	
100	QPSK	135	69		22.08				
100	QPSK	135	138		21.58				
100	QPSK	270	0		21.56				
100	16QAM	1	1		21.18		22.5	1.0	
100	64QAM	1	1		19.83		21.0	2.5	
100	256QAM	1	1		16.05		19.0	4.5	
Channel				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3498.98	3504.99			
50	QPSK	1	1	22.05	22.14	22.10	23.5	0.0	
Channel				636968	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3498.98	3510			
80	QPSK	1	1	22.04	22.11	22.11	23.5	0.0	
Channel				635334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3498.98	3514.98			
70	QPSK	1	1	22.03	22.16	22.02	23.5	0.0	
Channel				632000	633332	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3498.98	3510.99			
60	QPSK	1	1	22.05	22.09	22.11	23.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3498.98	3525			
50	QPSK	1	1	22.09	22.14	22.08	23.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3498.98	3529.98			
40	QPSK	1	1	22.34	22.40	22.42	23.5	0.0	
Channel				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3498.98	3534.98			
30	QPSK	1	1	22.13	22.09	22.03	23.5	0.0	
Channel				636968	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.02	3498.98	3540			
20	QPSK	1	1	22.58	22.51	22.54	23.5	0.0	
Channel				636000	633332	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3498.98	3542.49			
20	QPSK	1	1	22.11	22.09	22.12	23.5	0.0	
Channel				635332	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3498.98	3544.98			
15	QPSK	1	1	22.09	22.09	22.09	23.5	0.0	



Part270_n77_Ant 12									
BW [MHz]	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	P12 BPSK	1	1	21.75	22.00	21.86			
100	P12 BPSK	1	137	21.73	21.99	21.84	23.5	0.0	
100	P12 BPSK	1	271	21.80	22.06	21.92			
100	P12 BPSK	135	0	21.89	22.10	21.95	23.0	0.5	
100	P12 BPSK	135	69	21.86	22.11	21.90	23.5	0.0	
100	P12 BPSK	135	138	21.23	21.48	21.38	23.0	0.5	
100	P12 BPSK	270	0	21.33	21.58	21.50			
100	QPSK	1	1	22.02	22.30	22.15			
100	QPSK	1	137	21.89	22.14	22.00	23.5	0.0	
100	QPSK	1	271	21.92	22.17	22.04			
100	QPSK	135	0	21.57	21.69	21.55			
100	QPSK	135	69	21.65	22.11	21.55	23.5	0.0	
100	QPSK	135	138	20.90	21.10	20.96			
100	QPSK	270	0	20.84	21.11	20.92	22.5	1.0	
100	16QAM	1	1	20.71	20.96	20.82	22.5	1.0	
100	64QAM	1	1	18.41	18.62	18.47	21.0	2.5	
100	256QAM	1	1	17.62	17.91	17.77	19.0	4.5	
Channel									
Frequency (MHz)				648668	656000	662332	Tune-up limit (dBm)	MPR	
90	QPSK	1	1	21.61	21.85	21.75	23.5	0.0	
Channel									
Frequency (MHz)				649334	656000	662666	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	21.64	21.84	21.69	23.5	0.0	
Channel									
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	21.66	21.91	21.76	23.5	0.0	
Channel									
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	21.62	21.85	21.75	23.5	0.0	
Channel									
Frequency (MHz)				649334	656000	664000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	21.64	21.87	21.71	23.5	0.0	
Channel									
Frequency (MHz)				648334	656000	663666	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	22.01	22.16	22.08	23.5	0.0	
Channel									
Frequency (MHz)				3715	3840	3945	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	21.61	21.89	21.73	23.5	0.0	
Channel									
Frequency (MHz)				647334	656000	664666	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	22.18	22.25	22.21	23.5	0.0	
Channel									
Frequency (MHz)				647168	656000	664832	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	21.57	21.94	21.76	23.5	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	21.62	21.90	21.76	23.5	0.0	

Part27Q_n77_Ant 23									
BW [MHz]	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)				3699.98					
100	P12 BPSK	1	1		18.95				
100	P12 BPSK	1	137		18.97		20.5	0.0	
100	P12 BPSK	1	271		18.98				
100	P12 BPSK	135	0		18.82		20.5	0.0	
100	P12 BPSK	135	69		18.97		20.5	0.0	
100	P12 BPSK	135	138		18.68		20.5	0.0	
100	P12 BPSK	270	0		18.97				
100	QPSK	1	1		18.10				
100	QPSK	1	137		18.97		20.5	0.0	
100	QPSK	1	271		18.95				
100	QPSK	135	0		18.53				
100	QPSK	135	69		18.03		20.5	0.0	
100	QPSK	135	138		18.83				
100	QPSK	270	0		18.98		20.5	0.0	
100	16QAM	1	1		18.92		20.5	0.0	
100	64QAM	1	1		18.91		20.5	0.0	
100	256QAM	1	1		17.20		18.5	2.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR	
90	QPSK	1	1		18.88	18.98	18.84	20.5	0.0
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1		18.86	19.05	19.03	20.5	0.0
Channel									
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR	
70	QPSK	1	1		18.94	19.05	18.88	20.5	0.0
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR	
60	QPSK	1	1		19.00	18.92	18.94	20.5	0.0
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1		18.94	18.89	19.00	20.5	0.0
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR	
40	QPSK	1	1		18.56	18.72	18.69	20.5	0.0
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR	
30	QPSK	1	1		19.04	18.96	18.84	20.5	0.0
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR	
25	QPSK	1	1		18.90	18.72	18.76	20.5	0.0
Channel									
Frequency (MHz)				630500	633332	636166	Tune-up limit (dBm)	MPR	
20	QPSK	1	1		18.82	19.06	18.85	20.5	0.0
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR	
15	QPSK	1	1		18.96	18.97	19.00	20.5	0.0

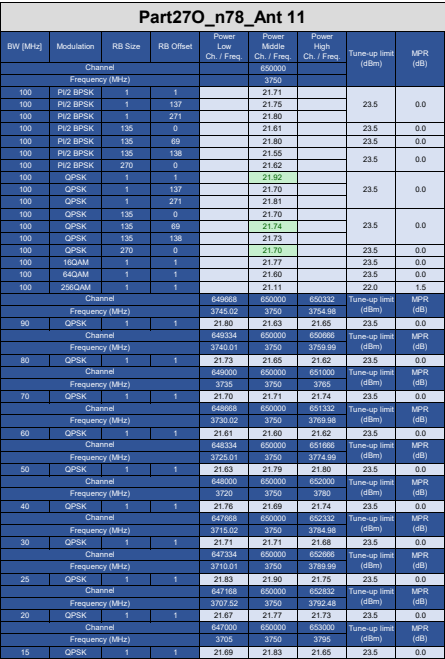
Part270_n77_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3720	3840	3900			
100	P12 BPSK	1	1	18.53	19.31	19.19			
100	P12 BPSK	1	137	18.51	19.10	19.01	20.5	0.0	
100	P12 BPSK	1	271	18.60	19.27	19.23			
100	P12 BPSK	135	9	18.52	19.01	19.09	20.5	0.0	
100	P12 BPSK	135	69	18.57	19.02	19.10	20.5	0.0	
100	P12 BPSK	135	138	18.61	19.10	19.05	20.5	0.0	
100	P12 BPSK	270	0	18.69	19.22	19.17			
100	QPSK	1	1	18.05	19.34	19.32			
100	QPSK	1	137	18.52	19.22	19.09	20.5	0.0	
100	QPSK	1	271	18.56	19.23	19.02			
100	QPSK	135	0	18.48	19.04	19.07			
100	QPSK	135	69	18.57	19.21	19.05	20.5	0.0	
100	QPSK	135	138	18.45	19.05	19.09			
100	QPSK	270	0	18.51	19.20	19.01	20.5	0.0	
100	16QAM	1	1	18.58	19.10	19.15	20.5	0.0	
100	64QAM	1	1	18.65	19.30	19.31	20.5	0.0	
100	256QAM	1	1	16.99	17.63	17.61	18.5	2.0	
Channel				648668	656000	662332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3145.55	3160	3154.45			
90	QPSK	1	1	18.58	19.16	19.13	20.5	0.0	
Channel				649334	656000	662666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	18.13	19.24	19.13	20.5	0.0	
Channel				650000	656000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.56	19.15	19.14	20.5	0.0	
Channel				648668	656000	663332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.92	3840	3949.98			
60	QPSK	1	1	18.58	19.24	19.25	20.5	0.0	
Channel				649334	656000	663666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3726.01	3840	3954.99			
50	QPSK	1	1	18.57	19.22	19.22	20.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840				
40	QPSK	1	1	18.77	19.16	19.08	20.5	0.0	
Channel				649000	656000	663532	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3145	3160	3154.45			
30	QPSK	1	1	19.54	19.13	19.11	20.5	0.0	
Channel				647334	656000	664666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3959.99			
25	QPSK	1	1	19.46	19.21	19.18	20.5	0.0	
Channel				647168	656000	664832	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3107.52	3160	3152.48			
20	QPSK	1	1	18.62	19.23	19.21	20.5	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3105	3160	3155			
15	QPSK	1	1	18.58	19.27	19.13	20.5	0.0	



Part27Q_n77_Ant 21									
BW [MHz]	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	P12 BPSK	1	1	17.59	633532	3699.98			
100	P12 BPSK	1	137	17.56			19.0	0.0	
100	P12 BPSK	1	271	17.46					
100	P12 BPSK	135	9	17.40			19.0	0.0	
100	P12 BPSK	135	69	17.55			19.0	0.0	
100	P12 BPSK	135	138	17.45			19.0	0.0	
100	P12 BPSK	270	0	17.56					
100	QPSK	1	1	17.50	17.60		19.0	0.0	
100	QPSK	1	137	17.34					
100	QPSK	1	271	17.55					
100	QPSK	135	0	17.51					
100	QPSK	135	69	17.45			19.0	0.0	
100	QPSK	135	138	17.50					
100	QPSK	270	0	17.48			19.0	0.0	
100	16QAM	1	1	17.38			19.0	0.0	
100	64QAM	1	1	17.45			19.0	0.0	
100	256QAM	1	1	17.06			18.5	0.5	
Channel									
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	1	17.05	17.18	17.24	19.0	0.0	
Channel									
				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	1	17.11	17.11	17.16	19.0	0.0	
Channel									
				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	1	17.07	17.17	17.10	19.0	0.0	
Channel									
				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	1	17.13	17.20	17.23	19.0	0.0	
Channel									
				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	1	17.60	17.21	17.14	19.0	0.0	
Channel									
				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	17.28	17.10	17.00	19.0	0.0	
Channel									
				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	17.05	17.14	17.04	19.0	0.0	
Channel									
				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	17.13	17.23	17.15	19.0	0.0	
Channel									
				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	17.15	17.05	17.14	19.0	0.0	
Channel									
				630000	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	17.10	17.12	17.19	19.0	0.0	

Part27Q_n77_Ant 21									
BW [MHz]	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	P12 BPSK	1	1	17.13	17.83	17.66			
100	P12 BPSK	1	137	17.13	17.83	17.70	19.0	0.0	
100	P12 BPSK	1	271	17.10	17.66	17.54			
100	P12 BPSK	135	0	17.05	17.64	17.52	19.0	0.0	
100	P12 BPSK	135	69	17.12	17.85	17.57	19.0	0.0	
100	P12 BPSK	135	138	17.12	17.68	17.50	19.0	0.0	
100	P12 BPSK	270	0	17.14	17.77	17.55			
100	QPSK	1	1	17.23	18.03	17.52			
100	QPSK	1	137	17.17	17.82	17.70	19.0	0.0	
100	QPSK	1	271	17.02	17.81	17.55			
100	QPSK	135	0	17.07	17.84	17.73			
100	QPSK	135	69	17.10	17.77	17.73	19.0	0.0	
100	QPSK	135	138	17.28	17.76	17.61			
100	QPSK	270	0	17.14	17.61	17.50	19.0	0.0	
100	16QAM	1	1	17.05	17.64	17.60	19.0	0.0	
100	64QAM	1	1	17.18	17.71	17.62	19.0	0.0	
100	256QAM	1	1	17.11	17.77	17.68	18.5	0.5	
Channel									
				646668	650000	662332	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
90	QPSK	1	1	17.43	17.36	17.44	19.0	0.0	
Channel									
				646334	650000	662666	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
80	QPSK	1	1	17.08	17.82	17.86	19.0	0.0	
Channel									
				646000	650000	663000	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
70	QPSK	1	1	17.21	17.99	17.89	19.0	0.0	
Channel									
				645668	650000	663332	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
60	QPSK	1	1	17.04	18.00	17.79	19.0	0.0	
Channel									
				645334	650000	663666	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
50	QPSK	1	1	17.10	17.50	17.22	19.0	0.0	
Channel									
				645000	650000	664000	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
40	QPSK	1	1	17.06	17.56	17.80	19.0	0.0	
Channel									
				644668	650000	664332	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
30	QPSK	1	1	17.08	17.90	17.91	19.0	0.0	
Channel									
				644334	650000	664666	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
25	QPSK	1	1	17.25	17.52	17.57	19.0	0.0	
Channel									
				644000	650000	665000	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
20	QPSK	1	1	17.02	17.85	17.84	19.0	0.0	
Channel									
				643668	650000	665332	Tune-up limit (dbm)	MPR	
Frequency (MHz)									
15	QPSK	1	1	17.16	17.56	17.65	19.0	0.0	

Part27Q_n78_Ant 11									
BW [MHz]	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	P12 BPSK	1	1		22.05				
100	P12 BPSK	1	137		21.94		23.5	0.0	
100	P12 BPSK	1	271		22.14				
100	P12 BPSK	135	0		22.03		23.5	0.0	
100	P12 BPSK	135	69		21.97		23.5	0.0	
100	P12 BPSK	135	138		22.06		23.5	0.0	
100	P12 BPSK	270	0		21.92				
100	QPSK	1	1		22.19				
100	QPSK	1	137		21.99		23.5	0.0	
100	QPSK	1	271		22.12				
100	QPSK	135	0		22.08				
100	QPSK	135	69		22.06		23.5	0.0	
100	QPSK	135	138		22.01				
100	QPSK	270	0		21.99		23.5	0.0	
100	16QAM	1	1		22.08		23.5	0.0	
100	64QAM	1	1		21.97		23.5	0.0	
100	256QAM	1	1		21.18		22.0	1.5	
Channel									
				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	1	22.02	22.08	22.09	23.5	0.0	
Channel				636668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	1	3490.02	3499.98	3510.00	23.5	0.0	
Channel				635334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	1	21.90	21.97	21.93	23.5	0.0	
Channel				632000	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	1	21.84	21.99	21.91	23.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	1	21.59	21.99	22.02	23.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	21.86	21.95	21.99	23.5	0.0	
Channel				631000	633332	635998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	21.97	22.01	21.98	23.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	21.98	21.94	21.80	23.5	0.0	
Channel				630330	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	21.86	21.99	22.05	23.5	0.0	
Channel				630000	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.01	22.09	22.02	23.5	0.0	



Part27Q_n78_Ant 12									
IMN (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				63532	63532				
100	PV2 BPSK	1	1	20.63	20.63				
100	PV2 BPSK	1	137	22.74	22.74	24.0	0.0		
100	PV2 BPSK	1	271	22.48	22.48	24.0	0.0		
100	PV2 BPSK	135	0	20.60	20.60	24.0	0.0		
100	PV2 BPSK	135	69	22.48	22.48	24.0	0.0		
100	PV2 BPSK	135	138	22.59	22.59	24.0	0.0		
100	QPSK	270	0	22.47	22.47	24.0	0.0		
100	QPSK	1	1	20.83	20.83				
100	QPSK	1	137	22.62	22.62	24.0	0.0		
100	QPSK	1	271	22.62	22.62	24.0	0.0		
100	QPSK	135	0	20.60	20.60	24.0	0.0		
100	QPSK	135	69	22.66	22.66	24.0	0.0		
100	QPSK	135	138	22.62	22.62	24.0	0.0		
100	QPSK	270	0	22.50	22.50	24.0	0.0		
100	16QAM	1	1	21.57	21.57	24.0	0.0		
100	64QAM	1	1	20.54	20.54	23.0	1.0		
100	256QAM	1	1	20.52	20.52	23.0	3.0		
Channel									
Frequency (MHz)				63500	63532	63532	63596	Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.42	22.58	22.42	22.58	24.0	0.0
Channel									
Frequency (MHz)				63268	63532	63400	63596	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.52	22.65	22.52	22.65	24.0	0.0
Channel									
Frequency (MHz)				63234	63532	63432	63596	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.48	22.58	22.47	22.47	24.0	0.0
Channel									
Frequency (MHz)				63500	63532	63596	63596	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.55	22.63	22.49	22.49	24.0	0.0
Channel									
Frequency (MHz)				63470	63532	63600	63600	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.61	22.62	22.46	22.46	24.0	0.0
Channel									
Frequency (MHz)				63134	63532	63532	63596	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.57	22.50	22.53	22.53	24.0	0.0
Channel									
Frequency (MHz)				63100	63532	63606	63606	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.42	22.47	22.47	22.47	24.0	0.0
Channel									
Frequency (MHz)				63068	63532	63600	63600	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.77	22.57	22.78	22.40	24.0	0.0
Channel									
Frequency (MHz)				63200	63532	63760	63760	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.47	22.48	22.51	22.40	24.0	0.0
Channel									
Frequency (MHz)				63228	63532	63620	63620	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.62	22.51	22.61	22.40	24.0	0.0

Part270_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Freq. High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)	
	Channel					65000			
	Frequency (MHz)								
100	Pl2 BPSK	1	1		22.51				
100	Pl2 BPSK	1	137		22.46		24.0	0.0	
100	Pl2 BPSK	1	271		22.34				
100	Pl2 BPSK	135	0		22.39				
100	Pl2 BPSK	135	69		22.52		24.0	0.0	
100	Pl2 BPSK	135	136		22.63				
100	Pl2 BPSK	270	0		22.48		24.0	0.0	
100	QPSK	1	1		22.55				
100	QPSK	1	137		22.45		24.0	0.0	
100	QPSK	1	271		22.32				
100	QPSK	135	0		22.38				
100	QPSK	135	69		22.39		24.0	0.0	
100	QPSK	135	136		22.31				
100	QPSK	270	0		22.46		24.0	0.0	
100	16QAM	1	1		22.42		24.0	0.0	
100	64QAM	1	1		20.65		23.0	1.0	
100	256QAM	1	1		20.46		21.0	3.0	
	Channel					65000			
	Frequency (MHz)								
90	QPSK	1	1	22.11	22.10	3764.58	24.0	0.0	
	Channel			643334	65000	65069			
	Frequency (MHz)			643334	3760	3765.29	24.0	0.0	
80	QPSK	1	1	22.18	22.17	3760	24.0	0.0	
	Channel			646000	65000	65100			
	Frequency (MHz)			3765	3760	3765	Turn-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.08	22.00	3760	24.0	0.0	
	Channel			646000	65000	65132	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3760.02	3760	3769.98	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.09	22.21	22.08	24.0	0.0	
	Channel			645334	65000	65069	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3765.91	3760	3774.99	Turn-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.14	22.23	22.02	24.0	0.0	
	Channel			646000	65000	65200	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3762	3760	3768	Turn-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.17	22.32	22.23	24.0	0.0	
	Channel			647698	65000	65252	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3715.02	3760	3784.98	Turn-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.10	22.11	22.10	24.0	0.0	
	Channel			647334	65000	65269	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3716.01	3760	3769.99	Turn-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.22	22.27	22.23	24.0	0.0	
	Channel			647610	65000	65293	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3707.52	3760	3792.48	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.19	22.16	22.18	24.0	0.0	
	Channel			647000	65000	65300	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3705	3760	3765	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.18	22.05	22.09	24.0	0.0	



Part27Q_n78_Ant 23									
BW [MHz]	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	PI2 BPSK	1	1		19.03				
100	PI2 BPSK	1	137		19.03		21.0	0.0	
100	PI2 BPSK	1	271		19.14				
100	PI2 BPSK	135	0		19.22		21.0	0.0	
100	PI2 BPSK	135	69		19.13		21.0	0.0	
100	PI2 BPSK	135	138		19.16		21.0	0.0	
100	PI2 BPSK	270	0		19.15				
100	QPSK	1	1		19.25				
100	QPSK	1	137		19.15		21.0	0.0	
100	QPSK	1	271		19.24				
100	QPSK	135	0		19.19		21.0	0.0	
100	QPSK	135	69		19.07				
100	QPSK	135	138		19.16				
100	QPSK	270	0		19.07		21.0	0.0	
100	16QAM	1	1		19.16		21.0	0.0	
100	64QAM	1	1		19.05		21.0	0.0	
100	256QAM	1	1		19.82		20.0	1.0	
Channel				633000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3494	3499.98	3504.98			
90	QPSK	1	1	19.11	19.13	19.17	21.0	0.0	
Channel				630668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.21	19.03	19.13	21.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.20	19.24	19.21	21.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1	19.22	19.09	19.22	21.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.00	19.22	19.01	21.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.18	19.19	19.20	21.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.17	19.07	19.00	21.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	19.03	19.22	19.15	21.0	0.0	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	19.21	19.05	19.16	21.0	0.0	
Channel				631334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	19.20	19.02	19.14	21.0	0.0	

Part27Q_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633550					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		19.03				
100	PI2 BPSK	1	137		19.03		21.0	0.0	
100	PI2 BPSK	1	271		19.16				
100	PI2 BPSK	135	0		19.02		21.0	0.0	
100	PI2 BPSK	135	69		19.08		21.0	0.0	
100	PI2 BPSK	135	138		19.05		21.0	0.0	
100	PI2 BPSK	270	0		19.11				
100	QPSK	1	1		19.28				
100	QPSK	1	137		19.19		21.0	0.0	
100	QPSK	1	271		19.18				
100	QPSK	135	0		19.28		21.0	0.0	
100	QPSK	135	69		19.00				
100	QPSK	135	138		19.99				
100	QPSK	270	0		19.09		21.0	0.0	
100	16QAM	1	1		19.06		21.0	0.0	
100	64QAM	1	1		19.02		21.0	0.0	
100	256QAM	1	1		19.00		20.0	1.0	
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	19.29	19.22	19.12	21.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.11	3750.1	3760.09			
80	QPSK	1	1	19.09	19.21	19.06	21.0	0.0	
Channel				649500	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.09	19.18	19.14	21.0	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.03	3750	3768.98			
60	QPSK	1	1	19.12	19.14	19.26	21.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	19.00	19.13	19.08	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.17	19.27	19.21	21.0	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	19.20	19.24	19.26	21.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3788.99			
25	QPSK	1	1	19.27	19.26	19.25	21.0	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1	19.25	19.01	19.21	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	19.06	19.06	19.21	21.0	0.0	

Part27Q_n78_Ant 21									
BW [MHz]	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	PI2 BPSK	1	1		17.78			19.5	0.0
100	PI2 BPSK	1	137		17.65				
100	PI2 BPSK	1	271		17.60				
100	PI2 BPSK	135	0		17.69			19.5	0.0
100	PI2 BPSK	135	69		17.63			19.5	0.0
100	PI2 BPSK	135	138		17.74			19.5	0.0
100	PI2 BPSK	270	0		17.65			19.5	0.0
100	QPSK	1	1		17.84			19.5	0.0
100	QPSK	1	137		17.79				
100	QPSK	1	271		17.79				
100	QPSK	135	0		17.71			19.5	0.0
100	QPSK	135	69		17.75				
100	QPSK	135	138		17.65				
100	QPSK	270	0		17.62			19.5	0.0
100	16QAM	1	1		17.68			19.5	0.0
100	16QAM	1	1		17.69			19.5	0.0
100	256QAM	1	1		17.60			19.5	0.0
Channel				633000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3492	3499.98	3504.98			
90	QPSK	1	1	17.72	17.65	17.73	19.5	0.0	
Channel				630668	633332	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	17.76	17.75	17.65	19.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	17.50	17.65	17.54	19.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1	17.73	17.59	17.65	19.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	17.69	17.63	17.79	19.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	17.70	17.66	17.59	19.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	17.64	17.57	17.71	19.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	17.61	17.73	17.75	19.5	0.0	
Channel				630300	633332	636166	Tune-up limit (dB)	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	17.64	17.72	17.64	19.5	0.0	
Channel				630334	633332	636332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	17.80	17.56	17.65	19.5	0.0	

Part27Q_n78_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630668					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		17.68			19.5	0.0
100	PI2 BPSK	1	137		17.63				
100	PI2 BPSK	1	271		17.79				
100	PI2 BPSK	135	0		17.50			19.5	0.0
100	PI2 BPSK	135	69		17.62			19.5	0.0
100	PI2 BPSK	135	138		17.54			19.5	0.0
100	PI2 BPSK	270	0		17.65			19.5	0.0
100	QPSK	1	1		17.85			19.5	0.0
100	QPSK	1	137		17.69				
100	QPSK	1	271		17.66				
100	QPSK	135	0		17.57			19.5	0.0
100	QPSK	135	69		17.60				
100	QPSK	135	138		17.65				
100	QPSK	270	0		17.73			19.5	0.0
100	16QAM	1	1		17.61			19.5	0.0
100	16QAM	1	1		17.62			19.5	0.0
100	256QAM	1	1		17.54			19.5	0.0
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	17.72	17.72	17.71	19.5	0.0	
Channel				646334	650000	650666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1	17.60	17.58	17.74	19.5	0.0	
Channel				645999	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.79	17.77	17.62	19.5	0.0	
Channel				646668	650000	651332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3750.01	3750	3764.98			
60	QPSK	1	1	17.73	17.75	17.72	19.5	0.0	
Channel				646334	650000	651666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3755.01	3750	3774.99			
50	QPSK	1	1	17.69	17.62	17.67	19.5	0.0	
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3750	3750	3780			
40	QPSK	1	1	17.77	17.66	17.80	19.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3755.02	3750	3784.98			
30	QPSK	1	1	17.67	17.76	17.77	19.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3760.01	3750	3789.99			
25	QPSK	1	1	17.74	17.72	17.75	19.5	0.0	
Channel				647168	650000	652932	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3767.52	3750	3792.48			
20	QPSK	1	1	17.65	17.73	17.60	19.5	0.0	
Channel				647000	650000	653332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3765	3750	3795			
15	QPSK	1	1	17.64	17.71	17.64	19.5	0.0	



Reduced Power for DSI 5

n2_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)				1860	1880	1900			
20	Pl2 BPSK	1	1	18.74	18.78	18.60			
20	Pl2 BPSK	1	53	18.89	18.76	18.71	20.0	0.0	
20	Pl2 BPSK	1	104	18.74	18.85	18.99			
20	Pl2 BPSK	50	0	18.83	18.86	18.74	20.0	0.0	
20	Pl2 BPSK	50	28	18.68	18.74	18.69	20.0	0.0	
20	Pl2 BPSK	50	56	18.71	18.82	18.72	20.0	0.0	
20	Pl2 BPSK	100	0	18.80	18.75	18.65	20.0	0.0	
20	QPSK	1	1	18.75	18.88	18.81			
20	QPSK	1	53	18.71	18.68	18.68	20.0	0.0	
20	QPSK	1	104	18.73	18.77	18.62	20.0	0.0	
20	QPSK	50	0	18.72	18.80	18.70	20.0	0.0	
20	QPSK	50	28	18.74	18.86	18.74	20.0	0.0	
20	QPSK	50	56	18.76	18.81	18.62	20.0	0.0	
20	QPSK	100	0	18.77	18.77	18.69	20.0	0.0	
20	8QAM	1	1	18.84	18.67	18.69	20.0	0.0	
20	8QAM	1	1	18.71	18.77	18.60	20.0	0.0	
20	25QAM	1	1	18.77	18.78	18.70	19.5	0.5	
Channel									
Frequency (MHz)				371500	378000	385500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.94	18.92	18.72	20.0	0.0	
Channel									
Frequency (MHz)				371000	378000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.71	18.82	18.78	20.0	0.0	
Channel									
Frequency (MHz)				1862.5 <th>1880</th> <th>1907.5<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	1880	1907.5 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	18.55	18.80	18.79	20.0	0.0	

n2_Ant 31									
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									
Frequency (MHz)				1860	1880	1900	22.0	0.0	
20	Pl2 BPSK	1	1	20.43	20.52	20.31			
20	Pl2 BPSK	1	53	20.32	20.40	20.43			
20	Pl2 BPSK	1	104	20.30	20.44	20.38			
20	Pl2 BPSK	50	0	20.46	20.47	20.45	22.0	0.0	
20	Pl2 BPSK	50	28	20.39	20.46	20.32	22.0	0.0	
20	Pl2 BPSK	50	56	20.41	20.33	20.35	22.0	0.0	
20	Pl2 BPSK	100	0	20.44	20.51	20.39	22.0	0.0	
20	QPSK	1	1	20.52	20.56	20.53	22.0	0.0	
20	QPSK	1	53	20.42	20.51	20.40			
20	QPSK	1	104	20.36	20.36	20.38			
20	QPSK	50	0	20.36	20.36	20.38			
20	QPSK	50	28	20.42	20.50	20.46	22.0	0.0	
20	QPSK	50	56	20.41	20.39	20.41	22.0	0.0	
20	QPSK	100	0	20.37	20.48	20.40	22.0	0.0	
20	16QAM	1	1	20.41	20.37	20.38	22.0	0.0	
20	64QAM	1	1	20.46	20.47	20.44	22.0	0.0	
20	256QAM	1	1	18.93	19.02	18.95	20.0	2.0	
Channel									
Frequency (MHz)				371500	378000	385500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.43	20.51	20.37	22.0	0.0	
Channel									
Frequency (MHz)				371000	378000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.38	20.35	20.40	22.0	0.0	
Channel									
Frequency (MHz)				1862.5 <th>1880<th>1907.5<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th></th>	1880 <th>1907.5<th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	1907.5 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	20.38	20.41	20.33	22.0	0.0	

n5_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)				834	836.5	839			
20	Pl2 BPSK	1	1	24.01	24.05	24.04	25.0	0.0	
20	Pl2 BPSK	1	53	23.90	23.96	23.95			
20	Pl2 BPSK	1	104	23.76	23.84	23.78			
20	Pl2 BPSK	50	0	23.40	23.44	23.34	24.5	0.5	
20	Pl2 BPSK	50	28	23.93	23.98	23.88	25.0	0.0	
20	Pl2 BPSK	50	56	23.38	23.44	23.38	24.5	0.5	
20	Pl2 BPSK	100	0	23.34	23.42	23.34	24.5	0.5	
20	QPSK	1	1	24.12	24.14	24.08	25.0	0.0	
20	QPSK	1	53	24.06	24.08	23.99			
20	QPSK	1	104	23.90	23.93	23.86			
20	QPSK	50	0	23.20	23.26	23.17	24.0	1.0	
20	QPSK	50	28	23.93	23.96	23.92	25.0	0.0	
20	QPSK	50	56	23.20	23.25	23.21	24.0	1.0	
20	QPSK	100	0	23.30	23.35	23.33	24.0	1.0	
20	8QAM	1	1	23.63	23.71	23.66	24.0	1.0	
20	8QAM	1	1	21.98	22.03	21.94	22.5	2.5	
20	25QAM	1	1	20.11	20.16	20.13	20.5	4.5	
Channel									
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	24.09	24.11	24.02	25.0	0.0	
Channel									
Frequency (MHz)				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.03	24.07	24.06	25.0	0.0	
Channel									
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.95	23.98	23.94	25.0	0.0	

n5_Ant 31										
BW [MHz]	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	25.5	0.0		
Frequency (MHz)				834	836.5	838				
20	PI2 BPSK	1	1	24.06	24.14	24.12	25.5	0.0		
20	PI2 BPSK	1	53	23.93	24.01	23.96				
20	PI2 BPSK	1	104	23.85	23.91	23.90				
20	PI2 BPSK	50	0	23.34	23.43	23.42	25.0	0.5		
20	PI2 BPSK	50	26	23.79	23.96	23.89	25.5	0.0		
20	PI2 BPSK	50	56	23.25	23.40	23.33	25.0	0.5		
20	PI2 BPSK	100	0	23.43	23.51	23.46				
20	QPSK	1	1	24.16	24.19	24.11				
20	QPSK	1	53	23.92	24.02	23.93	25.5	0.0		
20	QPSK	1	104	23.77	23.91	23.85	24.5	1.0		
20	QPSK	50	0	23.06	23.24	23.19				
20	QPSK	50	26	23.91	24.03	24.00				
20	QPSK	50	56	23.08	23.22	23.15	24.5	1.0		
20	QPSK	100	0	23.19	23.29	23.27	24.5	1.0		
20	16QAM	1	1	23.43	23.63	23.53				
20	64QAM	1	1	21.92	22.02	21.98				
20	256QAM	1	1	19.97	20.16	20.07	21.0	4.5		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				831.5	836.5	841.5	(dB)	(dB)		
15	QPSK	1	1	23.95	24.00	23.99	25.5	0.0		
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR		
Frequency (MHz)				829	836.5	844	(dBm)	(dB)		
10	QPSK	1	1	23.89	23.97	23.87	25.5	0.0		
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	23.86	23.95	23.80	25.5	0.0		

n7_Ant 11										
BW [MHz]	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	18.5	0.0		
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	17.18	17.31	17.23	18.5	0.0		
40	PI2 BPSK	1	108	17.33	17.36	17.19				
40	PI2 BPSK	1	214	17.21	17.27	17.23				
40	PI2 BPSK	108	0	17.21	17.21	17.34	18.5	0.0		
40	PI2 BPSK	108	54	17.19	17.23	17.24	18.5	0.0		
40	PI2 BPSK	108	108	17.22	17.27	17.36	18.5	0.0		
40	PI2 BPSK	216	0	17.19	17.29	17.28				
40	QPSK	1	1	17.30	17.42	17.38				
40	QPSK	1	108	17.26	17.31	17.24	18.5	0.0		
40	QPSK	1	214	17.31	17.21	17.18	18.5	0.0		
40	QPSK	108	0	17.19	17.27	17.20				
40	QPSK	108	54	17.25	17.36	17.34				
40	QPSK	108	108	17.27	17.23	17.29	18.5	0.0		
40	QPSK	216	0	17.24	17.29	17.24	18.5	0.0		
40	16QAM	1	1	17.15	17.32	17.21				
40	64QAM	1	1	17.29	17.24	17.30				
40	256QAM	1	1	17.27	17.21	17.19	18.5	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2518	2535	2555	(dBm)	(dB)		
30	QPSK	1	1	17.32	17.18	17.19	18.5	0.0		
Channel				502900	507000	511900	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	QPSK	1	1	17.25	17.27	17.23	18.5	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	QPSK	1	1	17.15	17.18	17.28	18.5	0.0		
Channel				501900	507000	512900	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)		
15	QPSK	1	1	17.19	17.18	17.35	18.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2509	2535	2565	(dBm)	(dB)		
10	QPSK	1	1	17.15	17.27	17.15	18.5	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	17.25	17.27	17.17	18.5	0.0		

n7_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				504000	507000	510000	19.5	0.0		
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	18.14	18.12	18.03	19.5	0.0		
40	PI2 BPSK	1	108	18.10	18.22	18.18				
40	PI2 BPSK	1	214	18.09	18.06	18.12				
40	PI2 BPSK	108	0	18.06	18.16	18.03	19.5	0.0		
40	PI2 BPSK	108	54	18.12	18.23	18.09	19.5	0.0		
40	PI2 BPSK	108	108	18.08	18.04	18.13	19.5	0.0		
40	PI2 BPSK	216	0	18.04	18.10	18.11				
40	QPSK	1	1	18.17	18.25	18.22				
40	QPSK	1	108	18.05	18.18	18.04	19.5	0.0		
40	QPSK	1	214	18.01	18.16	18.16	19.5	0.0		
40	QPSK	108	0	18.09	18.11	18.06				
40	QPSK	108	54	18.14	18.19	18.15				
40	QPSK	108	108	18.02	18.13	18.09	19.5	0.0		
40	QPSK	216	0	18.11	18.15	18.13	19.5	0.0		
40	16QAM	1	1	17.97	18.07	18.02				
40	64QAM	1	1	18.15	18.13	18.04				
40	256QAM	1	1	18.02	18.05	18.05	19.5	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2518	2535	2555	(dBm)	(dB)		
30	QPSK	1	1	18.04	18.19	18.10	19.5	0.0		
Channel				502900	507000	511900	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	QPSK	1	1	18.06	18.23	18.07	19.5	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	QPSK	1	1	17.99	18.15	18.15	19.5	0.0		
Channel				501900	507000	512900	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)		
15	QPSK	1	1	18.12	18.12	18.07	19.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2509	2535	2565	(dBm)	(dB)		
10	QPSK	1	1	17.97	18.20	18.04	19.5	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	18.03	18.08	18.04	19.5	0.0		



n7_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				50400	50700	51000	23.0	0.0		
Frequency (MHz)				2520	2535	2550				
40	PI2 BPSK	1	1	21.61	21.78	21.65	23.0	0.0		
40	PI2 BPSK	1	108	21.55	21.60	21.61				
40	PI2 BPSK	1	214	21.55	21.73	21.65	23.0	0.0		
40	PI2 BPSK	108	0	21.56	21.68	21.57				
40	PI2 BPSK	108	54	21.58	21.64	21.72	23.0	0.0		
40	PI2 BPSK	108	108	21.68	21.66	21.58				
40	PI2 BPSK	216	0	21.63	21.71	21.64	23.0	0.0		
40	QPSK	1	1	21.71	21.80	21.74				
40	QPSK	1	108	21.52	21.77	21.63	23.0	0.0		
40	QPSK	1	214	21.63	21.62	21.70				
40	QPSK	108	0	21.58	21.61	21.60	23.0	0.0		
40	QPSK	108	54	21.55	21.76	21.65				
40	QPSK	108	108	21.58	21.68	21.64	23.0	0.0		
40	QPSK	216	0	21.55	21.74	21.65				
40	16QAM	1	1	21.58	21.64	21.62	23.0	0.0		
40	64QAM	1	1	20.91	21.07	20.98				
40	256QAM	1	1	19.03	19.19	19.11	20.0	3.0		
Channel				503000	507000	511000				
Frequency (MHz)				2512	2535	2557.5	23.0	0.0		
30	QPSK	1	1	21.51	21.69	21.54				
Channel				502000	507000	511000	23.0	0.0		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	21.54	21.65	21.65	23.0	0.0		
Channel				502000	507000	512000				
Frequency (MHz)				2510	2535	2560	23.0	0.0		
20	QPSK	1	1	21.59	21.59	21.63				
Channel				501000	507000	512000	23.0	0.0		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	1	21.61	21.68	21.64	23.0	0.0		
Channel				501000	507000	513000				
Frequency (MHz)				2505	2535	2565	23.0	0.0		
10	QPSK	1	1	21.66	21.71	21.63				
Channel				500500	507000	513000	23.0	0.0		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	21.62	21.59	21.67	23.0	0.0		

n26_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				164800	166300	167800	25.0	0.0		
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	23.92	23.95	23.87	25.0	0.0		
20	PI2 BPSK	1	53	23.93	23.96	23.89				
20	PI2 BPSK	1	104	23.82	23.90	23.85	24.5	0.5		
20	PI2 BPSK	50	0	23.39	23.47	23.44				
20	PI2 BPSK	50	28	23.88	23.96	23.89	25.0	0.0		
20	PI2 BPSK	50	56	23.34	23.39	23.36				
20	PI2 BPSK	100	0	23.29	23.37	23.31	24.5	0.5		
20	QPSK	1	1	23.95	24.18	23.54				
20	QPSK	1	53	23.91	23.94	23.92	25.0	0.0		
20	QPSK	1	104	23.89	23.96	23.90				
20	QPSK	50	0	23.21	23.22	23.17	24.0	1.0		
20	QPSK	50	28	23.50	23.55	23.55				
20	QPSK	50	56	23.15	23.16	23.07	24.0	1.0		
20	QPSK	100	0	23.16	23.20	23.10				
20	16QAM	1	1	23.90	23.98	23.98	24.0	1.0		
20	64QAM	1	1	21.79	21.88	21.88		2.5		
20	256QAM	1	1	19.97	20.01	20.00	20.5	4.5		
Channel				164300	166300	168300				
Frequency (MHz)				821.5	831.5	841.5	25.0	0.0		
15	QPSK	1	1	23.93	23.89	23.92				
Channel				163800	166300	168800	25.0	0.0		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	1	23.92	23.89	23.88	25.0	0.0		
Channel				163300	166300	169300				
Frequency (MHz)				816.5	831.5	846.5	25.0	0.0		
5	QPSK	1	1	23.94	23.96	23.84				

n26_Ant 31										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				164800	166300	167800	25.0	0.0		
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	23.74	23.90	23.83	25.5	0.0		
20	PI2 BPSK	1	53	23.83	23.84	23.84				
20	PI2 BPSK	1	104	23.75	23.87	23.81	25.0	0.5		
20	PI2 BPSK	50	0	23.28	23.37	23.28				
20	PI2 BPSK	50	28	23.84	23.91	23.85	25.5	0.0		
20	PI2 BPSK	50	56	23.27	23.37	23.28				
20	PI2 BPSK	100	0	23.30	23.42	23.40	25.0	0.5		
20	QPSK	1	1	23.91	23.96	23.93				
20	QPSK	1	53	23.80	23.89	23.86	25.5	0.0		
20	QPSK	1	104	23.79	23.91	23.85				
20	QPSK	50	0	23.09	23.19	23.16	24.5	1.0		
20	QPSK	50	28	23.50	23.54	23.54				
20	QPSK	50	56	23.03	23.18	23.10	24.5	1.0		
20	QPSK	100	0	23.11	23.21	23.17				
20	16QAM	1	1	23.43	23.62	23.44	24.5	1.0		
20	64QAM	1	1	21.84	21.92	21.91		2.5		
20	256QAM	1	1	19.89	20.09	20.07	21.0	4.5		
Channel				164300	166300	168300				
Frequency (MHz)				821.5	831.5	841.5	25.0	0.0		
15	QPSK	1	1	23.90	23.92	23.90				
Channel				163800	166300	168800	25.0	0.0		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	1	23.72	23.78	23.73	25.5	0.0		
Channel				163300	166300	169300				
Frequency (MHz)				816.5	831.5	846.5	25.0	0.0		
5	QPSK	1	1	23.71	23.78	23.76				

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	21.0	0.0		
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	19.79	19.87	19.72	21.0	0.0		
40	PI2 BPSK	1	108	19.75	19.70	19.70				
40	PI2 BPSK	1	214	19.70	19.71	19.72	21.0	0.0		
40	PI2 BPSK	108	0	19.71	19.77	19.67				
40	PI2 BPSK	108	54	19.80	19.76	19.67	21.0	0.0		
40	PI2 BPSK	108	108	19.80	19.71	19.71				
40	PI2 BPSK	216	0	19.65	19.69	19.59	21.0	0.0		
40	QPSK	1	1	19.63	19.69	19.60				
40	QPSK	1	108	19.80	19.86	19.75	21.0	0.0		
40	QPSK	1	214	19.76	19.63	19.74				
40	QPSK	108	0	19.75	19.73	19.73	21.0	0.0		
40	QPSK	108	54	19.81	19.86	19.75				
40	QPSK	108	108	19.65	19.76	19.60	21.0	0.0		
40	QPSK	216	0	19.74	19.75	19.71				
40	16QAM	1	1	19.73	19.84	19.77	21.0	0.0		
40	64QAM	1	1	19.62	19.73	19.64				
40	256QAM	1	1	19.53	19.61	19.60	20.0	1.0		
Channel				345000	349000	352000				
Frequency (MHz)				1722.5	1745	1762.5	21.0	0.0		
35	QPSK	1	1	19.68	19.72	19.64				
Channel				345000	349000	353000	21.0	0.0		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	19.81	19.74	19.72	21.0	0.0		
Channel				344500	349000	353500				
Frequency (MHz)				1722.5	1745	1767.5	21.0	0.0		
25	QPSK	1	1	19.62	19.79	19.63				
Channel				344000	349000	354000	21.0	0.0		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	19.70	19.84	19.73	21.0	0.0		
Channel				343500	349000	354500				
Frequency (MHz)				1717.5	1745	1772.5	21.0	0.0		
15	QPSK	1	1	19.74	19.87	19.63				
Channel				343000	349000	355000	21.0	0.0		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	19.62	19.71	19.76	21.0	0.0		
Channel				342500	349000	355500				
Frequency (MHz)				1712.5	1745	1777.5	21.0	0.0		
5	QPSK	1	1	19.69	19.93	19.60				

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	22.0	0.0		
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	21.19	21.32	21.22	22.0	0.0		
40	PI2 BPSK	1	108	21.26	21.26	21.31				
40	PI2 BPSK	1	214	21.10	21.35	21.13	22.0	0.0		
40	PI2 BPSK	108	0	21.19	21.32	21.26				
40	PI2 BPSK	108	54	21.12	21.28	21.25	22.0	0.0		
40	PI2 BPSK	108	108	21.17	21.28	21.15				
40	PI2 BPSK	216	0	21.11	21.33	21.20	22.0	0.0		
40	QPSK	1	1	21.28	21.38	21.33				
40	QPSK	1	108	21.19	21.26	21.22	22.0	0.0		
40	QPSK	1	214	21.15	21.28	21.17				
40	QPSK	108	0	21.07	21.21	21.18	22.0	0.0		
40	QPSK	108	54	21.22	21.32	21.25				
40	QPSK	108	108	21.07	21.20	21.16	22.0	0.0		
40	QPSK	216	0	21.18	21.25	21.21				
40	16QAM	1	1	21.16	21.21	21.14	22.0	0.0		
40	64QAM	1	1	21.19	21.31	21.34				
40	256QAM	1	1	20.48	20.49	20.46	20.5	1.5		
Channel				345000	349000	352000				
Frequency (MHz)				1722.5	1745	1762.5	22.0	0.0		
35	QPSK	1	1	21.19	21.34	21.34				
Channel				345000	349000	353000	22.0	0.0		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	21.17	21.21	21.21	22.0	0.0		
Channel				344500	349000	353500				
Frequency (MHz)				1722.5	1745	1767.5	22.0	0.0		
25	QPSK	1	1	21.23	21.30	21.19				
Channel				344000	349000	354000	22.0	0.0		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	21.14	21.18	21.21	22.0	0.0		
Channel				343500	349000	354500				
Frequency (MHz)				1717.5	1745	1772.5	22.0	0.0		
15	QPSK	1	1	21.21	21.35	21.15				
Channel				343000	349000	355000	22.0	0.0		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	21.12	21.31	21.14	22.0	0.0		
Channel				342500	349000	355500				
Frequency (MHz)				1712.5	1745	1777.5	22.0	0.0		
5	QPSK	1	1	21.17	21.37	21.25				

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				1730	1745	1760	21.5	0.0		
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	20.96	20.95	20.74	21.5	0.0		
40	PI2 BPSK	1	108	20.92	20.90	20.73				
40	PI2 BPSK	1	214	20.93	20.96	20.85	21.5	0.0		
40	PI2 BPSK	108	0	20.80	20.86	20.72				
40	PI2 BPSK	108	54	20.84	20.84	20.82	21.5	0.0		
40	PI2 BPSK	108	108	20.87	20.84	20.74				
40	PI2 BPSK	216	0	20.84	20.85	20.77	21.5	0.0		
40	QPSK	1	1	20.98	21.04	20.92				
40	QPSK	1	108	20.86	20.90	20.79	21.5	0.0		
40	QPSK	1	214	20.80	20.84	20.88				
40	QPSK	108	0	20.83	20.86	20.79	21.5	0.0		
40	QPSK	108	54	20.87	20.95	20.80				
40	QPSK	108	108	20.85	20.80	20.77	21.5	0.0		
40	QPSK	216	0	20.85	20.88	20.81				
40	16QAM	1	1	20.84	20.86	20.83	21.5	0.0		
40	64QAM	1	1	20.89	20.89	20.82				
40	256QAM	1	1	20.45	20.47	20.35	20.5	1.0		
Channel				345000	349000	352000				



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				518004	518000	519996			
				2585.02	2595	2599.98			
40	Pl2 BPSK	1	1	17.24	17.46	17.34			
40	Pl2 BPSK	1	53	17.41	17.35	17.21	18.5	0.0	
40	Pl2 BPSK	1	104	17.31	17.32	17.20			
40	Pl2 BPSK	50	0	17.28	17.43	17.39	18.5	0.0	
40	Pl2 BPSK	50	28	17.25	17.43	17.29	18.5	0.0	
40	Pl2 BPSK	50	56	17.34	17.31	17.37			
40	Pl2 BPSK	100	0	17.25	17.30	17.24	18.5	0.0	
40	QPSK	1	1	17.44	17.48	17.41			
40	QPSK	1	53	17.41	17.41	17.38	18.5	0.0	
40	QPSK	1	104	17.36	17.43	17.26			
40	QPSK	50	0	17.34	17.45	17.20	18.5	0.0	
40	QPSK	50	28	17.31	17.43	17.31			
40	QPSK	50	56	17.27	17.47	17.32			
40	QPSK	100	0	17.35	17.39	17.34	18.5	0.0	
40	16QAM	1	1	17.27	17.35	17.30	18.5	0.0	
40	64QAM	1	1	17.23	17.32	17.37	18.5	0.0	
40	256QAM	1	1	17.29	17.33	17.37	18.5	0.0	
Channel									
Frequency (MHz)				517002 <th>519000<th>520998</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>520998</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
30	QPSK	1	1	17.28	17.47	17.35	15.5	0.0	
Channel									
Frequency (MHz)				518000 <th>519000<th>522000</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>522000</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	522000	Tune-up limit (dBm)	MPR (dB)	
				2590 <th>2595<th>2610<th></th><th colspan="2"></th></th></th>	2595 <th>2610<th></th><th colspan="2"></th></th>	2610 <th></th> <th colspan="2"></th>			
20	QPSK	1	1	17.37	17.30	17.31	18.5	0.0	
Channel									
Frequency (MHz)				517002 <th>519000<th>522998</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>522998</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	522998	Tune-up limit (dBm)	MPR (dB)	
				2577.51 <th>2595</th> <th>2612.49<th></th><th colspan="2"></th></th>	2595	2612.49 <th></th> <th colspan="2"></th>			
15	QPSK	1	1	17.37	17.30	17.31	18.5	0.0	
Channel									
Frequency (MHz)				515004 <th>519000<th>522998</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>522998</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	522998	Tune-up limit (dBm)	MPR (dB)	
				2576.02 <th>2595</th> <th>2614.98</th> <th></th> <th colspan="2"></th>	2595	2614.98			
10	QPSK	1	1	17.37	17.30	17.31	18.5	0.0	
Channel									
Frequency (MHz)				514500 <th>519000<th>523500</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>523500</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	523500	Tune-up limit (dBm)	MPR (dB)	
				2572.5 <th>2595</th> <th>2617.5<th></th><th colspan="2"></th></th>	2595	2617.5 <th></th> <th colspan="2"></th>			
5	QPSK	1	1	17.37	17.30	17.31	18.5	0.0	

n38_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)				518004	518000	518996			
				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	17.85	17.76	17.72			
40	Pl2 BPSK	1	53	17.80	17.82	17.75	19.5	0.0	
40	Pl2 BPSK	1	104	17.84	17.86	17.82			
40	Pl2 BPSK	50	0	17.73	17.77	17.73	19.5	0.0	
40	Pl2 BPSK	50	28	17.81	17.76	17.78	19.5	0.0	
40	Pl2 BPSK	50	56	17.79	17.76	17.72			
40	Pl2 BPSK	100	0	17.82	17.79	17.76	19.5	0.0	
40	QPSK	1	1	17.93	17.96	17.94			
40	QPSK	1	53	17.85	17.85	17.92	19.5	0.0	
40	QPSK	1	104	17.81	17.97	17.86			
40	QPSK	50	0	17.84	17.76	17.80			
40	QPSK	50	28	17.90	17.82	17.75	19.5	0.0	
40	QPSK	50	56	17.83	17.95	17.74			
40	QPSK	100	0	17.74	17.78	17.72	19.5	0.0	
40	16QAM	1	1	17.87	17.84	17.85	19.5	0.0	
40	64QAM	1	1	17.87	17.70	17.84	19.5	0.0	
40	256QAM	1	1	17.83	17.91	17.79	19.5	0.0	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
30	QPSK	1	1	17.86	17.78	17.73	19.5	0.0	
Channel									
Frequency (MHz)				518000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
				2590	2595	2610			
20	QPSK	1	1	17.74	17.69	17.74	19.5	0.0	
Channel									
Frequency (MHz)				516502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
				2573.51	2595	2612.49			
15	QPSK	1	1	17.87	17.96	17.88	19.5	0.0	
Channel									
Frequency (MHz)				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
				2576.02	2595	2614.98			
10	QPSK	1	1	17.73	17.82	17.86	19.5	0.0	
Channel									
Frequency (MHz)				514500	519000	523500	Tune-up limit (dBm)	MPR (dB)	
				2572.5	2595	2617.5			
5	QPSK	1	1	17.71	17.94	17.78	19.5	0.0	

n38_Ant 31									
BW [MHz]	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)				518004	519000	519996			
				2585.02	2595	2600.98			
40	Pl2 BPSK	1	1	21.17	21.22	21.21			
40	Pl2 BPSK	1	53	21.02	21.10	21.12	22.5	0.0	
40	Pl2 BPSK	1	104	21.04	21.13	21.19			
40	Pl2 BPSK	50	0	21.11	21.19	21.07	22.5	0.0	
40	Pl2 BPSK	50	28	20.97	21.25	20.99	22.5	0.0	
40	Pl2 BPSK	50	56	21.09	21.16	21.11			
40	Pl2 BPSK	100	0	21.15	21.20	21.09	22.5	0.0	
40	QPSK	1	1	21.21	21.27	21.24			
40	QPSK	1	53	21.03	21.19	21.21	22.5	0.0	
40	QPSK	1	104	21.20	21.25	21.18			
40	QPSK	50	0	21.18	21.23	21.05			
40	QPSK	50	28	21.12	21.16	21.05	22.5	0.0	
40	QPSK	50	56	21.05	21.23	21.18			
40	QPSK	100	0	21.07	21.15	21.00	22.5	0.0	
40	16QAM	1	1	21.12	21.18	21.11	22.5	0.0	
40	64QAM	1	1	21.15	21.18	21.09	22.5	0.0	
40	256QAM	1	1	21.20	21.25	21.24	22.0	0.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
				2585.01	2595	2604.99			
30	QPSK	1	1	21.06	20.98	21.13	22.5	0.0	
Channel									
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
				2590	2595	2610			
20	QPSK	1	1	20.94	21.10	21.02	22.5	0.0	
Channel									
Frequency (MHz)				515002	519000	522998	Tune-up limit (dBm)	MPR (dB)	
				2577.51	2595	2612.49			
15	QPSK	1	1	20.94	21.08	20.97	22.5	0.0	
Channel									
Frequency (MHz)				514004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
				2576.02	2595	2614.98			
10	QPSK	1	1	21.02	21.08	21.09	22.5	0.0	
Channel									
Frequency (MHz)				513500	519000	523500	Tune-up limit (dBm)	MPR (dB)	
				2572.55	2595	2617.5			
5	QPSK	1	1	21.01	20.94	20.95	22.5	0.0	

n41_Ant 11								
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch 1 / Freq.	Power Level Ch 2 / Freq.	Power Level Ch 3 / Freq.	Turn-up time (dftm)	MPR (dB)
Channel								
	Frequency (MHz)			506002	518698	520800		
100	Pi2 BPSK	1	1	17.19	17.28	17.28		
100	Pi2 BPSK	1	137	17.19	17.33	17.32	18.5	0.0
100	Pi2 BPSK	1	271	17.30	17.42	17.27		
100	Pi2 BPSK	135	0	17.25	17.25	17.15	18.5	0.0
100	Pi2 BPSK	135	69	17.17	17.37	17.28		
100	Pi2 BPSK	135	138	17.05	17.37	17.21	18.5	0.0
100	Pi2 BPSK	270	0	17.06	17.24	17.17		
100	QPSK	1	1	17.33	17.50	17.37		
100	QPSK	1	137	17.20	17.38	17.28	18.5	0.0
100	QPSK	1	271	17.17	17.40	17.30		
100	QPSK	135	0	17.17	17.38	17.19		
100	QPSK	135	69	17.06	17.41	17.25	18.5	0.0
100	QPSK	135	138	17.18	17.37	17.29		
100	QPSK	270	0	17.28	17.38	17.18	18.5	0.0
100	16QAM	1	1	17.08	17.24	17.15		
100	64QAM	1	1	17.22	17.34	17.16	18.5	0.0
100	256QAM	1	1	17.28	17.35	17.33	18.5	0.0
Channel								
	Frequency (MHz)			2561	2592.59	2644.98		
90	QPSK	1	1	17.14	17.45	17.26	18.5	0.0
Channel								
	Frequency (MHz)			507204	518698	529998		
80	QPSK	1	1	17.21	17.29	17.22		
Channel								
	Frequency (MHz)			506002	518698	517200		
70	QPSK	1	1	17.32	17.92	17.23	18.5	0.0
Channel								
	Frequency (MHz)			506002	518698	531195		
60	QPSK	1	1	17.29	17.33	17.20	18.5	0.0
Channel								
	Frequency (MHz)			506004	518698	535998		
50	QPSK	1	1	17.27	17.30	17.26	18.5	0.0
Channel								
	Frequency (MHz)			506002	518698	534000		
40	QPSK	1	1	17.17	17.42	17.15	18.5	0.0
Channel								
	Frequency (MHz)			2511	2592.59	2674.98		
30	QPSK	1	1	17.12	17.25	17.30	18.5	0.0
Channel								
	Frequency (MHz)			501204	518698	535998		
20	QPSK	1	1	17.16	17.40	17.30	18.5	0.0
Channel								
	Frequency (MHz)			500700	518698	536498		
15	QPSK	1	1	17.26	17.32	17.18	18.5	0.0
Channel								
	Frequency (MHz)			2501.01	2592.59	2685		
10	QPSK	1	1	17.07	17.36	17.29	18.5	0.0

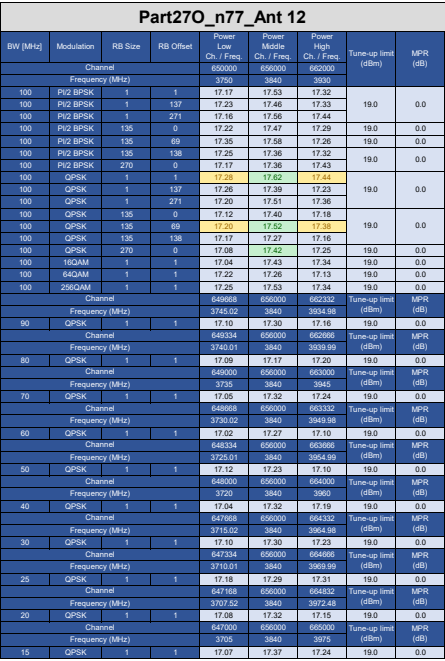
n41_Ant 13							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	
Channel				506022	151698	520000	
Frequency (MHz)				2501.01	2502.99	2505.01	
100	PV2 BPSK	1	1	19.66	19.79	19.66	
100	PV2 BPSK	1	137	18.75	18.58	18.62	20.5
100	PV2 BPSK	1	271	18.57	18.85	18.78	
100	PV2 BPSK	135	0	18.75	18.74	18.66	20.5
100	PV2 BPSK	135	69	19.74	19.62	19.60	20.5
100	PV2 BPSK	135	138	19.68	19.65	19.66	20.5
100	PV2 BPSK	270	0	18.56	18.67	18.60	20.5
100	QPSK	1	1	18.73	18.83	18.72	
100	QPSK	1	137	18.77	18.78	18.68	20.5
100	QPSK	1	271	18.71	18.92	18.69	
100	QPSK	135	0	18.57	18.81	18.70	20.5
100	QPSK	135	69	19.82	19.73	19.55	20.5
100	QPSK	135	138	18.49	18.73	18.64	20.5
100	QPSK	270	0	19.54	18.67	18.65	20.5
100	16QAM	1	1	18.63	18.85	18.73	20.5
100	64QAM	1	1	18.56	18.70	18.72	20.5
100	256QAM	1	1	18.54	18.85	18.72	20.5
Channel				2501	2502	2505	
Frequency (MHz)				2502.5	2502.99	2504.98	
90	QPSK	1	1	18.87	18.90	18.80	20.5
Channel				507204	151698	520998	
Frequency (MHz)				2502.00	2502.99	2505.00	
80	QPSK	1	1	19.76	19.85	19.74	20.5
Frequency (MHz)				2503.01	2502.99	2505	
70	QPSK	1	1	18.80	18.81	18.79	20.5
Frequency (MHz)				2503.5	151698	531000	
Channel				2506	2502.99	2509.98	
60	QPSK	1	1	18.68	18.88	18.78	20.5
Channel				504204	151698	533098	
Frequency (MHz)				2502.50	2502.99	2504.99	
50	QPSK	1	1	19.77	19.80	19.81	20.5
Channel				503002	151698	534000	
Frequency (MHz)				2516.01	2502.99	2510	
40	QPSK	1	1	18.81	18.89	18.79	20.5
Frequency (MHz)				2511	151698	535098	
Channel				2511	2502.99	2517.98	
30	QPSK	1	1	18.87	18.91	18.93	20.5
Channel				501204	151698	535998	
Frequency (MHz)				2502.50	2502.99	2504.99	
20	QPSK	1	1	19.65	19.83	19.65	20.5
Channel				500700	151698	536800	
Frequency (MHz)				2503.5	2502.99	2504.98	
15	QPSK	1	1	18.71	18.92	18.86	20.5
Channel				500204	151698	537300	
Frequency (MHz)				2501.01	2502.99	2505	
10	QPSK	1x1	1	18.64	18.90	18.74	20.5

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BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq.	Power Level Ch / Freq.	Power Level Ch / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				506022	518698	530800			
100	P2-8PSK	1	1	22.09	22.17	22.15			
100	P2-8PSK	1	137	22.17	22.23	22.22	24.0	0.0	
100	P2-8PSK	1	271	22.25	22.35	22.37			
100	P2-8PSK	135	0	22.20	22.17	22.20	24.0	0.0	
100	P2-8PSK	135	69	22.11	22.12	22.11	24.0	0.0	
100	P2-8PSK	135	136	22.24	22.16	22.11	24.0	0.0	
100	P2-8PSK	270	0	22.06	22.12	22.11	24.0	0.0	
100	QPSK	1	1	22.20	22.43	22.22			
100	QPSK	1	137	22.14	22.34	22.21	24.0	0.0	
100	QPSK	1	271	22.20	22.37	22.22			
100	QPSK	135	0	22.20	22.10	22.24			
100	QPSK	135	69	22.10	22.13	22.12	24.0	0.0	
100	QPSK	135	136	22.13	22.25	22.12	24.0	0.0	
100	QPSK	270	0	22.08	22.12	22.10	24.0	0.0	
100	16QAM	1	1	22.14	22.20	22.10	24.0	0.0	
100	64QAM	1	1	22.01	22.12	22.23	24.0	0.0	
100	256QAM	1	1	21.40	21.48	21.37	22.0	2.0	
Channel				506020	518698	530998			
Frequency (MHz)				506020	518698	2644.98			
90	QPSK	1	1	22.28	22.33	22.24	24.0	0.0	
Channel				507204	518698	530998	Time-up limit	MPR	
Frequency (MHz)				507204	518698	2644.98			
80	QPSK	1	1	22.20	22.35	22.34	24.0	0.0	
Channel				508622	518698	531000	Time-up limit	MPR	
Frequency (MHz)				508622	518698	2665			
70	QPSK	1	1	22.17	22.27	22.37	24.0	0.0	
Channel				511020	518698	531000	Time-up limit	MPR	
Frequency (MHz)				511020	518698	2669.98			
60	QPSK	1	1	22.38	22.29	22.18	24.0	0.0	
Channel				504204	518698	533098	Time-up limit	MPR	
Frequency (MHz)				504204	518698	2684.98			
50	QPSK	1	1	22.36	22.40	22.30	24.0	0.0	
Channel				501022	518698	534000	Time-up limit	MPR	
Frequency (MHz)				501022	518698	2670			
40	QPSK	1	1	22.27	22.24	22.37	24.0	0.0	
Channel				509220	518698	534998	Time-up limit	MPR	
Frequency (MHz)				5115	2692.99	2674.98			
30	QPSK	1	1	22.26	22.39	22.40	24.0	0.0	
Channel				507204	518698	535998	Time-up limit	MPR	
Frequency (MHz)				507204	518698	2678.99			
20	QPSK	1	1	22.20	22.30	22.33	24.0	0.0	
Channel				500700	518698	536498	Time-up limit	MPR	
Frequency (MHz)				2603.5	2692.99	2682.48			
15	QPSK	1	1	22.22	22.37	22.25	24.0	0.0	
Channel				509220	518698	537000	Time-up limit	MPR	
Frequency (MHz)				2501.61	2692.99	2688			
10	QPSK	1	1	22.29	22.41	22.27	24.0	0.0	

Part27Q_n77_Ant 11									
BW [MHz]	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	P12 BPSK	1	1		18.46				
100	P12 BPSK	1	137		18.44		20.0	0.0	
100	P12 BPSK	1	271		18.55				
100	P12 BPSK	135	0		18.49		20.0	0.0	
100	P12 BPSK	135	69		18.39		20.0	0.0	
100	P12 BPSK	135	138		18.43		20.0	0.0	
100	P12 BPSK	270	0		18.39				
100	QPSK	1	1		18.52				
100	QPSK	1	137		18.58		20.0	0.0	
100	QPSK	1	271		18.55				
100	QPSK	135	0		18.52		20.0	0.0	
100	QPSK	135	69		18.46				
100	QPSK	135	138		18.52				
100	QPSK	270	0		18.54		20.0	0.0	
100	16QAM	1	1		18.44		20.0	0.0	
100	64QAM	1	1		18.40		20.0	0.0	
100	256QAM	1	1		18.49		20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	(dB)
				3456	3499.98	3504.99			
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm)	MPR	(dB)
				3460.02	3499.98	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	631834	633332	634866	Tune-up limit (dBm)	MPR	(dB)
				3465.01	3499.98	3514.98			
Channel									
Frequency (MHz)									
60	QPSK	1	1	631000	633332	635000	Tune-up limit (dBm)	MPR	(dB)
				3470.01	3499.98	3509.98			
Channel									
Frequency (MHz)									
50	QPSK	1	1	630166	633332	636000	Tune-up limit (dBm)	MPR	(dB)
				3475.02	3499.98	3525			
Channel									
Frequency (MHz)									
40	QPSK	1	1	629332	633332	636866	Tune-up limit (dBm)	MPR	(dB)
				3480.02	3499.98	3540			
Channel									
Frequency (MHz)									
30	QPSK	1	1	628498	633332	637500	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3499.98	3549.98			
Channel									
Frequency (MHz)									
25	QPSK	1	1	627664	633332	638166	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3499.98	3544.98			
Channel									
Frequency (MHz)									
20	QPSK	1	1	626830	633332	639000	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3499.98	3544.98			
Channel									
Frequency (MHz)									
15	QPSK	1	1	625996	633332	639500	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3499.98	3544.98			

Part27Q_n77_Ant 11									
BW [MHz]	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	P12 BPSK	1	1	650000	650000	662000			
100	P12 BPSK	1	137	18.14	18.33	18.47	20.0	0.0	
100	P12 BPSK	1	271	18.32	18.44	18.32			
100	P12 BPSK	135	0	18.12	18.31	18.47	20.0	0.0	
100	P12 BPSK	135	69	18.20	18.34	18.41			
100	P12 BPSK	135	138	18.22	18.43	18.29	20.0	0.0	
100	P12 BPSK	270	0	18.28	18.31	18.28			
100	QPSK	1	1	18.43	18.54	18.39			
100	QPSK	1	137	18.38	18.31	18.30	20.0	0.0	
100	QPSK	1	271	18.06	18.47	18.38			
100	QPSK	135	0	18.16	18.28	18.52			
100	QPSK	135	69	18.18	18.45	18.25	20.0	0.0	
100	QPSK	135	138	18.20	18.31	18.41			
100	QPSK	270	0	18.16	18.43	18.38	20.0	0.0	
100	16QAM	1	1	18.07	18.32	18.42	20.0	0.0	
100	64QAM	1	1	18.09	18.33	18.53	20.0	0.0	
100	256QAM	1	1	18.08	18.20	18.52	20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	(dB)
				3745.02	3840	3934.98			
Channel									
Frequency (MHz)									
80	QPSK	1	1	646000	650000	662000	Tune-up limit (dBm)	MPR	(dB)
				3740.01	3840	3939.99			
Channel									
Frequency (MHz)									
70	QPSK	1	1	645334	650000	661666	Tune-up limit (dBm)	MPR	(dB)
				3735	3840	3945			
Channel									
Frequency (MHz)									
60	QPSK	1	1	644668	650000	661332	Tune-up limit (dBm)	MPR	(dB)
				3730.01	3840	3940.98			
Channel									
Frequency (MHz)									
50	QPSK	1	1	644000	650000	661000	Tune-up limit (dBm)	MPR	(dB)
				3720	3840	3940			
Channel									
Frequency (MHz)									
40	QPSK	1	1	643334	650000	660666	Tune-up limit (dBm)	MPR	(dB)
				3725.01	3840	3944.99			
Channel									
Frequency (MHz)									
30	QPSK	1	1	642668	650000	660332	Tune-up limit (dBm)	MPR	(dB)
				3715.02	3840	3944.98			
Channel									
Frequency (MHz)									
25	QPSK	1	1	642000	650000	660000	Tune-up limit (dBm)	MPR	(dB)
				3710.01	3840	3943.99			
Channel									
Frequency (MHz)									
20	QPSK	1	1	641334	650000	659666	Tune-up limit (dBm)	MPR	(dB)
				3705	3840	3943			
Channel									
Frequency (MHz)									
15	QPSK	1	1	640668	650000	659332	Tune-up limit (dBm)	MPR	(dB)
				3700.01	3840	3942.99			

Part27Q_n77_Ant 12									
BW [MHz]	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	P12 BPSK	1	1		17.39				
100	P12 BPSK	1	137		17.56		19.0		0.0
100	P12 BPSK	1	271		17.43				
100	P12 BPSK	135	0		17.51		19.0		0.0
100	P12 BPSK	135	69		17.36		19.0		0.0
100	P12 BPSK	135	138		17.38		19.0		0.0
100	P12 BPSK	270	0		17.50				
100	QPSK	1	1		17.59				
100	QPSK	1	137		17.55		19.0		0.0
100	QPSK	1	271		17.52				
100	QPSK	135	0		17.45				
100	QPSK	135	69		17.57		19.0		0.0
100	QPSK	135	138		17.33				
100	QPSK	270	0		17.41		19.0		0.0
100	16QAM	1	1		17.29		19.0		0.0
100	64QAM	1	1		17.54		19.0		0.0
100	256QAM	1	1		17.49		19.0		0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	630000	633332	633666	Tune-up limit (dBm)	MPR	(dB)
				3456	3499.98	3504.99			
Channel									
Frequency (MHz)									
90	QPSK	1	1	630698	633332	634000	Tune-up limit (dBm)	MPR	(dB)
				3500.02	3499.98	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	632034	633332	634332	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3499.98	3514.98			
Channel									
Frequency (MHz)									
70	QPSK	1	1	632731	633332	634631	Tune-up limit (dBm)	MPR	(dB)
				3475.02	3499.98	3525			
Channel									
Frequency (MHz)									
60	QPSK	1	1	633134	633332	633532	Tune-up limit (dBm)	MPR	(dB)
				3470.01	3499.98	3529.98			
Channel									
Frequency (MHz)									
40	QPSK	1	1	633733	633332	633933	Tune-up limit (dBm)	MPR	(dB)
				6333	3499.98	3534.99			
Channel									
Frequency (MHz)									
30	QPSK	1	1	633668	633332	633868	Tune-up limit (dBm)	MPR	(dB)
				3492.02	3499.98	3548			
Channel									
Frequency (MHz)									
25	QPSK	1	1	633833	633332	633933	Tune-up limit (dBm)	MPR	(dB)
				633000	3499.98	3542.49			
Channel									
Frequency (MHz)									
20	QPSK	1	1	634000	633332	633933	Tune-up limit (dBm)	MPR	(dB)
				3495.01	3499.98	3544.98			
Channel									
Frequency (MHz)									
15	QPSK	1	1	634257	633332	633933	Tune-up limit (dBm)	MPR	(dB)



Part27Q_n77_Ant 23								
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								
Frequency (MHz)								
100	PV2 BPSK	1	137	18.95	635332			
100	PV2 BPSK	1	137	18.97			20.5	0.0
100	PV2 BPSK	1	131	18.88				
100	PV2 BPSK	135	0	18.88			20.5	0.0
100	PV2 BPSK	135	69	18.97				
100	PV2 BPSK	135	138	18.88			20.5	0.0
100	PV2 BPSK	270	0	18.97				
100	QPSK	1	1	18.90				
100	QPSK	1	137	18.97			20.5	0.0
100	QPSK	1	271	18.95				
100	QPSK	135	0	18.93				
100	QPSK	135	69	18.93			20.5	0.0
100	QPSK	135	138	18.88				
100	QPSK	270	0	18.98				
100	16QAM	1	1	18.92			20.5	0.0
100	64QAM	1	1	18.91				
100	256QAM	1	1	17.20			18.5	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	18.88	635332	635898		Turn-up limit (dBm)	LPR (dB)
80	QPSK	1	18.88	3499.958	3504.998		20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	18.88	635332	634400		Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	18.88	3499.958	3500.000		20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	18.94	635332	634320		Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	18.84	3499.958	3514.988		20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	19.00	635332	635500		Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	19.00	18.92	634400		20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	18.94	635332	635958		Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	18.94	3499.958	3525.000		20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	18.56	18.72	634400		20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	18.94	635332	635958		Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	19.04	18.96	634400		20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	18.94	635332	635958		Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	18.59	18.72	634400		20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	18.92	635332	635958		Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	18.92	18.96	634400		20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	18.96	635332	635332		Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	18.96	3499.958	3544.988		20.5	0.0

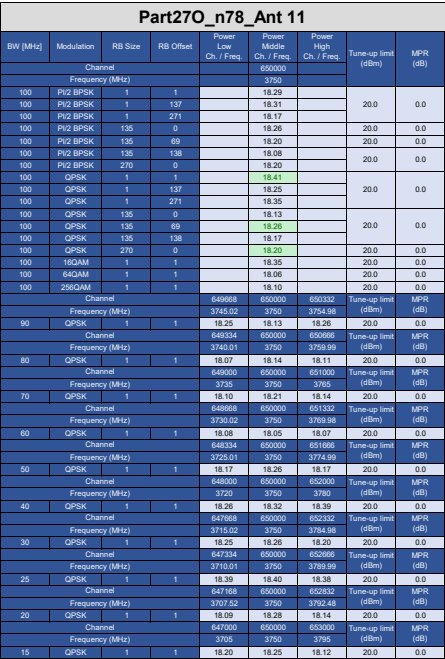
Part270_n77_Ant 23									
Bin (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. F / Freq.	Power Level Ch. F / Freq.	Power Level Ch. F / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel				650000	650000	660000			
Frequency (MHz)				3760	3760	3760			
100	P1/2 BPSK	1	1	18.53	19.31	19.19	19.19		
100	P1/2 BPSK	1	137	18.51	19.10	19.01	20.5	0.0	
100	P1/2 BPSK	1	271	18.60	19.27	19.23			
100	P1/2 BPSK	135	0	18.52	19.01	19.09	20.5	0.0	
100	P1/2 BPSK	135	69	18.57	19.02	19.10	20.5	0.0	
100	P1/2 BPSK	135	136	18.61	19.10	19.05	20.5	0.0	
100	P1/2 BPSK	270	0	18.68	19.22	19.17			
100	QPSK	1	1	18.60	19.34	19.32			
100	QPSK	1	137	18.52	19.28	19.09	20.5	0.0	
100	QPSK	1	271	18.56	19.23	19.02			
100	QPSK	135	0	18.48	19.04	19.07			
100	QPSK	135	69	18.57	19.12	19.05	20.5	0.0	
100	QPSK	135	136	18.45	19.05	19.06	20.5	0.0	
100	QPSK	270	0	18.51	19.20	19.01			
100	16QAM	1	1	18.56	19.10	19.15	20.5	0.0	
100	64QAM	1	1	18.65	19.30	19.31	20.5	0.0	
100	256QAM	1	1	18.99	17.63	17.61	18.5	2.0	
Channel				660000	660000	660000			
Frequency (MHz)				3745.02	3860	3954.98	Turn-up time (dBm)		
90	QPSK	1	1	18.58	19.16	19.23	20.5	0.0	
Channel				648334	650000	66298	Turn-up limit (dBm)		MPR
Frequency (MHz)				3741.91	3860	3950.99	Turn-up time (dBm)		MPR
90	QPSK	1	1	18.50	19.24	19.13	20.5	0.0	
Channel				660000	660000	663000	Turn-up time (dBm)		MPR
Frequency (MHz)				3735	3860	3945	Turn-up time (dBm)		MPR
70	QPSK	1	1	18.56	19.15	19.24	20.5	0.0	
Channel				647395	650000	663333	Turn-up time (dBm)		MPR
Frequency (MHz)				3730.02	3860	3949.98	Turn-up time (dBm)		MPR
60	QPSK	1	1	18.58	19.24	19.25	20.5	0.0	
Channel				648334	660000	66599	Turn-up time (dBm)		MPR
Frequency (MHz)				3725.15	3860	3954.99	Turn-up time (dBm)		MPR
50	QPSK	1	1	18.57	19.22	19.10	20.5	0.0	
Channel				660000	660000	664000	Turn-up time (dBm)		MPR
Frequency (MHz)				3720	3860	3960	Turn-up time (dBm)		MPR
40	QPSK	1	1	18.77	18.16	19.08	20.5	0.0	
Channel				647395	650000	663333	Turn-up time (dBm)		MPR
Frequency (MHz)				3715.02	3860	3964.98	Turn-up time (dBm)		MPR
30	QPSK	1	1	18.54	19.13	19.11	20.5	0.0	
Channel				647334	660000	66499	Turn-up limit (dBm)		MPR
Frequency (MHz)				3710.51	3860	3960.99	Turn-up time (dBm)		MPR
25	QPSK	1	1	19.05	19.21	19.14	20.5	0.0	
Channel				647168	660000	664832	Turn-up time (dBm)		MPR
Frequency (MHz)				3707.52	3860	3972.48	Turn-up time (dBm)		MPR
20	QPSK	1	1	18.62	19.23	19.21	20.5	0.0	
Channel				647334	660000	66499	Turn-up time (dBm)		MPR
Frequency (MHz)				3705	3860	3975	Turn-up time (dBm)		MPR
15	QPSK	1	1	18.58	19.27	19.13	20.5	0.0	



Part27Q_n77_Ant 21									
BW (MHz)	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	P22 BPSK	1	1	17.59	3499.98				
100	P22 BPSK	1	137	17.56			19.0	0.0	
100	P22 BPSK	1	271	17.46					
100	P22 BPSK	135	0	17.40			19.0	0.0	
100	P22 BPSK	135	69	17.55			19.0	0.0	
100	P22 BPSK	135	138	17.45			19.0	0.0	
100	P22 BPSK	270	0	17.56					
100	QPSK	1	1	17.50	17.60		19.0	0.0	
100	QPSK	1	137	17.34					
100	QPSK	1	271	17.55					
100	QPSK	135	0	17.51					
100	QPSK	135	69	17.45			19.0	0.0	
100	QPSK	135	138	17.50					
100	QPSK	270	0	17.48			19.0	0.0	
100	16QAM	1	1	17.38			19.0	0.0	
100	64QAM	1	1	17.49			19.0	0.0	
100	256QAM	1	1	17.06			18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR	
				3499.98	3499.98	3504.99	(dBm)	(dB)	
				17.05	17.18	17.24	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632688	633332	634000	Tune-up limit (dBm)	MPR	
				3490.02	3499.98	3510	(dBm)	(dB)	
				17.11	17.11	17.16	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63224	633332	63432	Tune-up limit (dBm)	MPR	
				3485.01	3499.98	3514.98	(dBm)	(dB)	
				17.07	17.17	17.10	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR	
				3480	3499.98	3519.99	(dBm)	(dB)	
				17.13	17.20	17.23	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR	
				3475.02	3499.98	3525	(dBm)	(dB)	
				17.29	17.21	17.14	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm)	MPR	
				3470.01	3499.98	3529.98	(dBm)	(dB)	
				17.28	17.10	17.00	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633332	635966	Tune-up limit (dBm)	MPR	
				3465	3499.98	3534.99	(dBm)	(dB)	
				17.05	17.14	17.04	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630500	633332	636500	Tune-up limit (dBm)	MPR	
				3457.5	3499.98	3542.49	(dBm)	(dB)	
				17.15	17.05	17.14	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm)	MPR	
				3455.01	3499.98	3544.98	(dBm)	(dB)	
				17.10	17.12	17.19	19.0	0.0	

Part27Q_n77_Ant 21									
BW (MHz)	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	P22 BPSK	1	1	17.13	17.83	17.66			
100	P22 BPSK	1	137	17.13	17.83	17.70	19.0	0.0	
100	P22 BPSK	1	271	17.10	17.66	17.54			
100	P22 BPSK	135	0	17.05	17.64	17.52	19.0	0.0	
100	P22 BPSK	135	69	17.12	17.85	17.57	19.0	0.0	
100	P22 BPSK	135	138	17.12	17.68	17.50	19.0	0.0	
100	P22 BPSK	270	0	17.14	17.77	17.55			
100	QPSK	1	1	17.23	18.03	17.50			
100	QPSK	1	137	17.17	17.82	17.70	19.0	0.0	
100	QPSK	1	271	17.02	17.81	17.55			
100	QPSK	135	0	17.07	17.84	17.73			
100	QPSK	135	69	17.10	17.77	17.75	19.0	0.0	
100	QPSK	135	138	17.28	17.76	17.61			
100	QPSK	270	0	17.14	17.61	17.50	19.0	0.0	
100	16QAM	1	1	17.05	17.64	17.60	19.0	0.0	
100	64QAM	1	1	17.18	17.71	17.62	19.0	0.0	
100	256QAM	1	1	17.11	17.77	17.68	18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	646668	650000	662332	Tune-up limit (dBm)	MPR	
				3745.02	3860	3934.98			
				17.10	17.88	17.77	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	646334	650000	662666	Tune-up limit (dBm)	MPR	
				3740.01	3840	3939.99			
				17.08	17.82	17.86	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	646000	650000	663000	Tune-up limit (dBm)	MPR	
				3735	3840	3945			
				17.21	17.99	17.89	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	645668	650000	663332	Tune-up limit (dBm)	MPR	
				3730.02	3840	3949.98			
				17.04	18.00	17.79	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	645334	650000	663666	Tune-up limit (dBm)	MPR	
				3725.01	3840	3954.99			
				17.10	17.50	17.22	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	645000	650000	664000	Tune-up limit (dBm)	MPR	
				3720	3840	3960			
				17.06	17.55	17.80	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	644668	650000	664332	Tune-up limit (dBm)	MPR	
				3715.02	3840	3964.98			
				17.06	17.50	17.91	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	644334	650000	664666	Tune-up limit (dBm)	MPR	
				3710.01	3840	3969.99			
				17.25	17.52	17.57	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	644000	650000	665000	Tune-up limit (dBm)	MPR	
				3707.52	3840	3972.48			
				17.02	17.65	17.84	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	643668	650000	665332	Tune-up limit (dBm)	MPR	
				3705	3840	3975			
				17.16	17.55	17.65	19.0	0.0	

Part27Q_n78_Ant 11									
BW (MHz)	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	P22 BPSK	1	1		18.53				
100	P22 BPSK	1	137		18.43		20.0	0.0	
100	P22 BPSK	1	271		18.51				
100	P22 BPSK	135	9		18.38		20.0	0.0	
100	P22 BPSK	135	69		18.48		20.0	0.0	
100	P22 BPSK	135	138		18.43		20.0	0.0	
100	P22 BPSK	270	0		18.54				
100	QPSK	1	1		18.06				
100	QPSK	1	137		18.04		20.0	0.0	
100	QPSK	1	271		18.55				
100	QPSK	135	9		18.58				
100	QPSK	135	69		18.39		20.0	0.0	
100	QPSK	135	138		18.46		20.0	0.0	
100	QPSK	270	0		18.57		20.0	0.0	
100	16QAM	1	1		18.47		20.0	0.0	
100	64QAM	1	1		18.38		20.0	0.0	
100	256QAM	1	1		18.49		20.0	0.0	
Channel				635000	635332	635996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3498	3499.88	3504.89			
90	QPSK	1	1	18.44	18.62	18.56	20.0	0.0	
Channel				636968	635332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	18.35	18.42	18.50	20.0	0.0	
Channel				635234	635332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	18.35	18.43	18.48	20.0	0.0	
Channel				632070	635332	634096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3499.98	3519.98			
60	QPSK	1	1	18.43	18.52	18.48	20.0	0.0	
Channel				631968	635332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3499.98	3522			
50	QPSK	1	1	18.29	18.36	18.44	20.0	0.0	
Channel				631134	635332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	18.38	18.36	18.44	20.0	0.0	
Channel				617000	635332	635596	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3534.98			
30	QPSK	1	1	18.51	18.55	18.66	20.0	0.0	
Channel				636968	635332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3500			
25	QPSK	1	1	18.38	18.40	18.41	20.0	0.0	
Channel				635000	635332	636186	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	18.43	18.44	18.46	20.0	0.0	
Channel				635334	635332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	18.48	18.53	18.60	20.0	0.0	



Part27Q_n78_Ant 12									
IMW (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									
Frequency (MHz)				635332	346958				
100	PV2 BPSK	1	1	18.23					
100	PV2 BPSK	1	137	18.24					
100	PV2 BPSK	1	271	18.18			19.5	0.0	
100	PV2 BPSK	135	0	18.09					
100	PV2 BPSK	135	69	18.09					
100	PV2 BPSK	135	138	18.00			19.5	0.0	
100	PV2 BPSK	270	0	18.02					
100	QPSK	1	1	19.41					
100	QPSK	1	137	18.35			19.5	0.0	
100	QPSK	1	271	18.32					
100	QPSK	135	0	18.01					
100	QPSK	135	69	18.10			19.5	0.0	
100	QPSK	135	138	18.12					
100	QPSK	270	0	18.12			19.5	0.0	
100	16QAM	1	1	19.21			19.5	0.0	
100	64QAM	1	1	18.19			19.5	0.0	
100	256QAM	1	1	18.23			19.5	0.0	
Channel									
Frequency (MHz)				635300	635332	635966	Turn-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3480	346958	304545			
90	QPSK	1	1	18.10	17.99	18.20	19.5	0.0	
Channel				632668	635332	634000	Turn-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3480	346958	304545			
80	QPSK	1	1	18.04	18.05	18.07	19.5	0.0	
Channel									
Frequency (MHz)				635354	635332	634332	Turn-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3465.01	346958	351458	18.12		
Channel									
Frequency (MHz)				635000	635332	634006	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3480	346958	351959			
Channel									
Frequency (MHz)				6345.01	635332	635000	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.99	18.16	18.19	19.5	0.0	
Channel									
Frequency (MHz)				3479.02	346958	3525	Turn-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.18	18.09	18.08	19.5	0.0	
Channel									
Frequency (MHz)				631534	635332	635532	Turn-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	346958	3029.89			
Channel									
Frequency (MHz)				18.01	18.07	18.11	19.5	0.0	
30	QPSK	1	1	631000	635332	636966	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3465	346958	3034.99			
30	QPSK	1	1	18.14	18.09	18.02	19.5	0.0	
Channel									
Frequency (MHz)				636968	635332	636000	Turn-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	3460.02	346958	3540			
Channel									
Frequency (MHz)				18.27	18.15	18.33	19.5	0.0	
20	QPSK	1	1	635000	635332	637000	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3467.5	346958	3542.49			
20	QPSK	1	1	18.05	18.13	18.08	19.5	0.0	
Channel									

Part270_n78_Ant 12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPR (dB)
		Channel							
		Frequency (MHz)		3750	65000				
100	PI2 BPSK	1			18.03				
100	PI2 BPSK	1	137		17.91			19.5	0.0
100	PI2 BPSK	1	271		17.89				
100	PI2 BPSK	135	0		17.87			19.5	0.0
100	PI2 BPSK	135	69		17.84				
100	PI2 BPSK	135	138		17.87			19.5	0.0
100	QPSK	270	0		17.88				
100	QPSK	1	1		18.05				
100	QPSK	1	137		17.89			19.5	0.0
100	QPSK	1	271		17.87				
100	QPSK	135	0		17.88			19.5	0.0
100	QPSK	135	69		17.97				
100	QPSK	135	138		17.87			19.5	0.0
100	QPSK	270	0		18.00				
100	16QAM	1	1		17.92			19.5	0.0
100	64QAM	1	1		17.85			19.5	0.0
100	256QAM	1	1		17.83			19.5	0.0
		Channel		646969	65000	650698			
		Frequency (MHz)		3746.09	3750	3764.93		Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	17.57	17.52	17.54			19.5	0.0
		Channel		646334	65000	650698		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3746.34	3750	3765.29		19.5	0.0
80	QPSK	1	17.69	17.59	17.72			19.5	0.0
		Channel		646000	65000	651000		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3745	3750	3765		19.5	0.0
70	QPSK	1	17.58	17.53	17.52			19.5	0.0
		Channel		646000	65000	651333		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3740.02	3750	3769.98		19.5	0.0
60	QPSK	1	17.59	17.67	17.52			19.5	0.0
		Channel		646334	65000	651698		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3726.91	3750	3774.99		19.5	0.0
50	QPSK	1	17.56	17.62	17.61			19.5	0.0
		Channel		646500	65000	652000		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3720	3750	3780		19.5	0.0
40	QPSK	1	17.75	17.62	17.81			19.5	0.0
		Channel		647698	65000	652698		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3715.02	3750	3784.98		19.5	0.0
30	QPSK	1	17.69	17.60	17.58			19.5	0.0
		Channel		647334	65000	652698		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3707.52	3750	3789.99		19.5	0.0
25	QPSK	1	17.63	17.59	17.74			19.5	0.0
		Channel		647811	65000	652811		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3707.52	3750	3792.48		19.5	0.0
20	QPSK	1	17.67	17.56	17.84			19.5	0.0
		Channel		647000	65000	653000		Turn-up limit (dBm)	MPR (dB)
		Frequency (MHz)		3700	3750	3790		19.5	0.0
15	QPSK	1	17.57	17.64	17.54			19.5	0.0



Part27Q_n78_Ant 23									
BW [MHz]	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	PI2 BPSK	1	1		19.03				
100	PI2 BPSK	1	137		19.03		21.0	0.0	
100	PI2 BPSK	1	271		19.14				
100	PI2 BPSK	135	0		19.22		21.0	0.0	
100	PI2 BPSK	135	69		19.13		21.0	0.0	
100	PI2 BPSK	135	138		19.16		21.0	0.0	
100	PI2 BPSK	270	0		19.15				
100	QPSK	1	1		19.25				
100	QPSK	1	137		19.15		21.0	0.0	
100	QPSK	1	271		19.24				
100	QPSK	135	0		19.19		21.0	0.0	
100	QPSK	135	69		19.07				
100	QPSK	135	138		19.16				
100	QPSK	270	0		19.07		21.0	0.0	
100	16QAM	1	1		19.16		21.0	0.0	
100	64QAM	1	1		19.05		21.0	0.0	
100	256QAM	1	1		18.82		20.0	1.0	
Channel				633000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3494	3499.98	3504.98			
90	QPSK	1	1	19.11	19.13	19.17	21.0	0.0	
Channel				630668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.21	19.03	19.13	21.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.20	19.24	19.21	21.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1	19.22	19.09	19.22	21.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.00	19.22	19.01	21.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.18	19.19	19.20	21.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.17	19.07	19.00	21.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	19.03	19.22	19.15	21.0	0.0	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	19.21	19.05	19.16	21.0	0.0	
Channel				631334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	19.20	19.02	19.14	21.0	0.0	

Part27Q_n78_Ant 23									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633550					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		19.03				
100	PI2 BPSK	1	137		19.03		21.0	0.0	
100	PI2 BPSK	1	271		19.16				
100	PI2 BPSK	135	0		19.02		21.0	0.0	
100	PI2 BPSK	135	69		19.08		21.0	0.0	
100	PI2 BPSK	135	138		19.05		21.0	0.0	
100	PI2 BPSK	270	0		19.11				
100	QPSK	1	1		19.28				
100	QPSK	1	137		19.19		21.0	0.0	
100	QPSK	1	271		19.18				
100	QPSK	135	0		19.28		21.0	0.0	
100	QPSK	135	69		19.00				
100	QPSK	135	138		19.99				
100	QPSK	270	0		19.09		21.0	0.0	
100	16QAM	1	1		19.06		21.0	0.0	
100	64QAM	1	1		19.02		21.0	0.0	
100	256QAM	1	1		19.00		20.0	1.0	
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	19.29	19.22	19.12	21.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.11	3750.1	3760.09			
80	QPSK	1	1	19.09	19.21	19.06	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.09	19.18	19.14	21.0	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.03	3750	3768.98			
60	QPSK	1	1	19.12	19.14	19.26	21.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	19.00	19.13	19.08	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.17	19.27	19.21	21.0	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	19.20	19.24	19.26	21.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3788.99			
25	QPSK	1	1	19.27	19.26	19.25	21.0	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1	19.25	19.01	19.21	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	19.06	19.06	19.21	21.0	0.0	

Part27Q_n78_Ant 21									
BW [MHz]	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	PI2 BPSK	1	1		17.78				
100	PI2 BPSK	1	137		17.65		19.5	0.0	
100	PI2 BPSK	1	271		17.60				
100	PI2 BPSK	135	0		17.69		19.5	0.0	
100	PI2 BPSK	135	69		17.63		19.5	0.0	
100	PI2 BPSK	135	138		17.74		19.5	0.0	
100	PI2 BPSK	270	0		17.65				
100	QPSK	1	1		17.84				
100	QPSK	1	137		17.79		19.5	0.0	
100	QPSK	1	271		17.79				
100	QPSK	135	0		17.71		19.5	0.0	
100	QPSK	135	69		17.75				
100	QPSK	135	138		17.65				
100	QPSK	270	0		17.62		19.5	0.0	
100	16QAM	1	1		17.68		19.5	0.0	
100	64QAM	1	1		17.69		19.5	0.0	
100	256QAM	1	1		17.60		19.5	0.0	
Channel				633000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3492	3499.98	3504.98			
90	QPSK	1	1	17.72	17.65	17.73	19.5	0.0	
Channel				630668	633332	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	17.76	17.75	17.65	19.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	17.50	17.66	17.54	19.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3480	3499.98	3518.98			
60	QPSK	1	1	17.73	17.58	17.65	19.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	17.60	17.63	17.79	19.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	17.70	17.66	17.59	19.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	17.64	17.57	17.71	19.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	17.61	17.73	17.75	19.5	0.0	
Channel				630300	633332	636166	Tune-up limit (dB)	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	17.64	17.72	17.64	19.5	0.0	
Channel				630334	633332	636332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	17.80	17.56	17.65	19.5	0.0	

Part27Q_n78_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630668					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1		17.68				
100	PI2 BPSK	1	137		17.63		19.5	0.0	
100	PI2 BPSK	1	271		17.79				
100	PI2 BPSK	135	0		17.50		19.5	0.0	
100	PI2 BPSK	135	69		17.62		19.5	0.0	
100	PI2 BPSK	135	138		17.54		19.5	0.0	
100	PI2 BPSK	270	0		17.66				
100	QPSK	1	1		17.85				
100	QPSK	1	137		17.69		19.5	0.0	
100	QPSK	1	271		17.66				
100	QPSK	135	0		17.57		19.5	0.0	
100	QPSK	135	69		17.60				
100	QPSK	135	138		17.65				
100	QPSK	270	0		17.73		19.5	0.0	
100	16QAM	1	1		17.61		19.5	0.0	
100	64QAM	1	1		17.62		19.5	0.0	
100	256QAM	1	1		17.54		19.5	0.0	
Channel				646668	650000	650332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	17.72	17.72	17.71	19.5	0.0	
Channel				646334	650000	650666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3756.99			
80	QPSK	1	1	17.60	17.58	17.74	19.5	0.0	
Channel				645999	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.79	17.77	17.62	19.5	0.0	
Channel				646068	650000	651332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.01	3750	3768.98			
60	QPSK	1	1	17.73	17.75	17.72	19.5	0.0	
Channel				646334	650000	651666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	17.60	17.62	17.67	19.5	0.0	
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.77	17.66	17.80	19.5	0.0	
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	17.67	17.76	17.77	19.5	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3789.99			
25	QPSK	1	1	17.74	17.72	17.75	19.5	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1	17.65	17.73	17.60	19.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	17.64	17.71	17.64	19.5	0.0	



Reduced Power for DSI 8&9&10

n2_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				1860	1880	1900	18.5	0.0	
Frequency (MHz)				372000	376000	380000			
20	Pl2 BPSK	1	1	17.05	17.11	17.11	18.5	0.0	
20	Pl2 BPSK	1	53	16.98	17.17	17.08			
20	Pl2 BPSK	1	104	17.04	17.16	17.22			
20	Pl2 BPSK	50	0	17.01	17.12	17.26	18.5	0.0	
20	Pl2 BPSK	50	28	16.94	17.11	17.15	18.5	0.0	
20	Pl2 BPSK	50	56	16.96	17.28	17.25	18.5	0.0	
20	Pl2 BPSK	100	0	17.07	17.13	17.10	18.5	0.0	
20	QPSK	1	1	17.22	17.42	17.35			
20	QPSK	1	53	17.07	17.20	17.15			
20	QPSK	1	104	16.93	17.27	17.14	18.5	0.0	
20	QPSK	50	0	17.26	17.12	17.22	18.5	0.0	
20	QPSK	50	28	17.15	17.36	17.34	18.5	0.0	
20	QPSK	50	56	16.98	17.11	17.08	18.5	0.0	
20	QPSK	100	0	16.93	17.20	17.17	18.5	0.0	
20	16QAM	1	1	17.00	17.30	17.12	18.5	0.0	
20	64QAM	1	1	16.93	17.17	17.27	18.5	0.0	
20	256QAM	1	1	17.08	17.18	17.27	18.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	18.5	0.0	
15	QPSK	1	1	16.98	17.13	17.15	18.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	17.08	17.25	17.25	18.5	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	17.04	17.17	17.26	18.5	0.0	

n2_Ant 31									
BW (MHz)	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	21.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	19.48	19.48	19.33	21.0	0.0	
20	Pl2 BPSK	1	53	19.26	19.30	19.38			
20	Pl2 BPSK	1	104	19.38	19.38	19.44			
20	Pl2 BPSK	50	0	19.49	19.41	19.35	21.0	0.0	
20	Pl2 BPSK	50	28	19.44	19.47	19.37	21.0	0.0	
20	Pl2 BPSK	50	56	19.39	19.35	19.35	21.0	0.0	
20	Pl2 BPSK	100	0	19.35	19.48	19.28	21.0	0.0	
20	QPSK	1	1	19.51	19.50	19.50			
20	QPSK	1	53	19.47	19.48	19.46			
20	QPSK	1	104	19.35	19.44	19.29	21.0	0.0	
20	QPSK	50	0	19.31	19.46	19.40	21.0	0.0	
20	QPSK	50	28	19.44	19.55	19.52	21.0	0.0	
20	QPSK	50	56	19.35	19.42	19.37	21.0	0.0	
20	QPSK	100	0	19.35	19.46	19.31	21.0	0.0	
20	16QAM	1	1	19.42	19.36	19.28	21.0	0.0	
20	64QAM	1	1	19.47	19.37	19.37	21.0	0.0	
20	256QAM	1	1	18.93	19.02	18.95	20.0	1.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	19.37	19.52	19.34	21.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	19.40	19.42	19.39	21.0	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	19.32	19.52	19.25	21.0	0.0	

n5_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				166800	167300	167800	25.0	0.0	
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	24.01	24.05	24.04	25.0	0.0	
20	Pl2 BPSK	1	53	23.90	23.96	23.95			
20	Pl2 BPSK	1	104	23.76	23.84	23.78			
20	Pl2 BPSK	50	0	23.40	23.44	23.34	24.5	0.5	
20	Pl2 BPSK	50	28	23.93	23.98	23.88	25.0	0.0	
20	Pl2 BPSK	50	56	23.98	23.44	23.38	24.5	0.5	
20	Pl2 BPSK	100	0	23.94	23.42	23.34	25.0	0.0	
20	QPSK	1	1	24.12	24.14	24.08			
20	QPSK	1	53	24.06	24.08	23.99			
20	QPSK	1	104	23.90	23.93	23.86	24.0	1.0	
20	QPSK	50	0	23.20	23.26	23.17	25.0	0.0	
20	QPSK	50	28	23.93	23.98	23.92	25.0	0.0	
20	QPSK	50	56	23.20	23.25	23.21	24.0	1.0	
20	QPSK	100	0	23.30	23.35	23.33	24.0	1.0	
20	16QAM	1	1	23.63	23.71	23.66	24.0	1.0	
20	64QAM	1	1	21.98	22.03	21.94	22.5	2.5	
20	256QAM	1	1	20.11	20.16	20.13	20.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	24.09	24.11	24.02	25.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	24.03	24.07	24.06	25.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	23.95	23.98	23.94	25.0	0.0	

n5_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				16680	16700	16760	25.5	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	24.06	24.14	24.12	25.5	0.0	
20	PI2 BPSK	1	53	23.93	24.01	23.96			
20	PI2 BPSK	1	104	23.85	23.91	23.90			
20	PI2 BPSK	50	0	23.34	23.43	23.42	25.0	0.5	
20	PI2 BPSK	50	26	23.79	23.96	23.89	25.5	0.0	
20	PI2 BPSK	50	56	23.25	23.40	23.33	25.0	0.5	
20	PI2 BPSK	100	0	23.43	23.61	23.46			
20	QPSK	1	1	24.15	24.19	24.11			
20	QPSK	1	53	23.92	24.02	23.93	25.5	0.0	
20	QPSK	1	104	23.77	23.91	23.83			
20	QPSK	50	0	23.09	23.24	23.19	24.5	1.0	
20	QPSK	50	26	23.37	24.03	24.07	25.5	0.0	
20	QPSK	50	56	23.08	23.22	23.15	24.5	1.0	
20	QPSK	100	0	23.19	23.29	23.27	24.5	1.0	
20	16QAM	1	1	23.43	23.63	23.53			
20	16QAM	1	1	21.92	22.02	21.98	23.0	2.5	
20	256QAM	1	1	19.97	20.16	20.07	21.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	231.5	232.5	231.5	(dBm)	(dB)	
15	QPSK	1	1	23.95	24.00	23.99	25.5	0.0	
Channel				169680	167300	168800	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	23.80	23.97	23.87	25.5	0.0	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR	
5	QPSK	1	1	836.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	23.88	23.95	23.80	25.5	0.0	

n7_Ant 11									
BW [MHz]	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	17.5	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.24	18.24	18.29	17.5	0.0	
40	PI2 BPSK	1	108	18.25	18.25	18.19			
40	PI2 BPSK	1	214	18.20	18.30	18.25			
40	PI2 BPSK	108	0	18.26	18.28	18.30	17.5	0.0	
40	PI2 BPSK	108	54	18.19	18.32	18.25	17.5	0.0	
40	PI2 BPSK	108	108	18.33	18.39	18.25	17.5	0.0	
40	PI2 BPSK	216	0	18.25	18.28	18.22			
40	QPSK	1	1	18.36	18.42	18.38			
40	QPSK	1	108	18.31	18.34	18.30	17.5	0.0	
40	QPSK	1	214	18.28	18.23	18.22	17.5	0.0	
40	QPSK	108	0	18.28	18.28	18.30			
40	QPSK	108	54	18.34	18.37	18.35			
40	QPSK	108	108	18.29	18.23	18.25	17.5	0.0	
40	QPSK	216	0	18.24	18.34	18.22	17.5	0.0	
40	16QAM	1	1	18.23	18.28	18.35			
40	16QAM	1	1	18.27	18.22	18.17			
40	256QAM	1	1	18.27	18.34	18.26	17.5	0.0	
Channel				507000	510000	513000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	18.19	18.27	18.35	17.5	0.0	
Channel				505000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	18.23	18.37	18.32	17.5	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	18.28	18.33	18.32	17.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	18.27	18.30	18.38	17.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	18.30	18.21	18.17	17.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	18.30	18.22	18.31	17.5	0.0	

n7_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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	14.15	14.18	14.09	15.5	0.0	
40	PI2 BPSK	1	108	14.07	14.29	14.14			
40	PI2 BPSK	1	214	14.10	14.17	14.27			
40	PI2 BPSK	108	0	14.17	14.13	14.19	15.5	0.0	
40	PI2 BPSK	108	54	14.06	14.26	14.26	15.5	0.0	
40	PI2 BPSK	108	108	14.23	14.29	14.08	15.5	0.0	
40	PI2 BPSK	216	0	14.10	14.14	14.08			
40	QPSK	1	1	14.25	14.33	14.29			
40	QPSK	1	108	14.05	14.14	14.15	15.5	0.0	
40	QPSK	1	214	14.16	14.19	14.20	15.5	0.0	
40	QPSK	108	0	14.08	14.15	14.10			
40	QPSK	108	54	14.21	14.30	14.25			
40	QPSK	108	108	14.20	14.25	14.25	15.5	0.0	
40	QPSK	216	0	14.07	14.18	14.17	15.5	0.0	
40	16QAM	1	1	14.19	14.16	14.22			
40	16QAM	1	1	14.09	14.17	14.16			
40	256QAM	1	1	14.21	14.27	14.17	15.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	14.09	14.18	14.11	15.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	14.13	14.18	14.22	15.5	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	14.10	14.21	14.15	15.5	0.0	
Channel				501900	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5 <th>(dBm)</th> <th colspan="2">(dB)</th>	(dBm)	(dB)	
15	QPSK	1	1	14.11	14.21	14.08	15.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	14.12	14.25	14.11	15.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	14.18	14.30	14.12	15.5	0.0	

n7_Ant 31									
BW [MHz]	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	22.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.50	20.65	20.61	22.0	0.0	
40	PI2 BPSK	1	108	20.57	20.60	20.63			
40	PI2 BPSK	1	214	20.52	20.63	20.56			
40	PI2 BPSK	108	0	20.59	20.74	20.55	22.0	0.0	
40	PI2 BPSK	108	54	20.54	20.56	20.61	22.0	0.0	
40	PI2 BPSK	108	108	20.49	20.69	20.52	22.0	0.0	
40	PI2 BPSK	216	0	20.51	20.68	20.62			
40	QPSK	1	1	20.70	20.77	20.72			
40	QPSK	1	108	20.49	20.73	20.65	22.0	0.0	
40	QPSK	1	214	20.52	20.59	20.64	22.0	0.0	
40	QPSK	108	0	20.49	20.62	20.64			
40	QPSK	108	54	20.54	20.71	20.55			
40	QPSK	108	108	20.63	20.61	20.62	22.0	0.0	
40	QPSK	216	0	20.66	20.69	20.60	22.0	0.0	
40	16QAM	1	1	20.51	20.59	20.66			
40	64QAM	1	1	20.55	20.58	20.58			
40	256QAM	1	1	19.03	19.19	19.11	20.0	2.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	20.62	20.65	20.67	22.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	20.50 <th>20.71</th> <th>20.63</th> <th>22.0</th> <th colspan="2">0.0</th>	20.71	20.63	22.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	20.57 <th>20.60</th> <th>20.62</th> <th>22.0</th> <th colspan="2">0.0</th>	20.60	20.62	22.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	20.67 <th>20.68</th> <th>20.55</th> <th>22.0</th> <th colspan="2">0.0</th>	20.68	20.55	22.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	20.61 <th>20.73</th> <th>20.56</th> <th>22.0</th> <th colspan="2">0.0</th>	20.73	20.56	22.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	20.52	20.65	20.63	22.0	0.0	

n26_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				164000	166300	167800	25.0	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.92	23.95	23.87	25.0	0.0	
20	PI2 BPSK	1	53	23.93	23.96	23.89			
20	PI2 BPSK	1	104	23.82	23.90	23.85			
20	PI2 BPSK	50	0	23.39	23.47	23.44	24.5	0.5	
20	PI2 BPSK	50	28	23.68	23.96	23.89	25.0	0.0	
20	PI2 BPSK	50	56	23.34	23.39	23.36	24.5	0.5	
20	PI2 BPSK	100	0	23.26	23.37	23.31			
20	QPSK	1	1	23.95	24.18	23.94			
20	QPSK	1	53	23.91	23.94	23.92	25.0	0.0	
20	QPSK	1	104	23.89	23.96	23.90	24.0	1.0	
20	QPSK	50	0	23.21	23.22	23.17			
20	QPSK	50	28	23.50	23.95	23.55			
20	QPSK	50	56	23.15	23.16	23.07	24.0	1.0	
20	QPSK	100	0	23.16	23.20	23.10	24.0	1.0	
20	16QAM	1	1	23.50	23.58	23.56			
20	64QAM	1	1	23.79	23.86	23.86		22.5	
20	256QAM	1	1	19.97	20.01	20.00	20.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	23.13	23.18	23.52	25.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	23.92	23.89	23.88	25.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	23.94	23.96	23.84	25.0	0.0	

n26_Ant 31									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				164000	166300	167800	25.0	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.74	23.90	23.83	25.5	0.0	
20	PI2 BPSK	1	53	23.63	23.94	23.84			
20	PI2 BPSK	1	104	23.75	23.87	23.81			
20	PI2 BPSK	50	0	23.26	23.37	23.28	25.0	0.5	
20	PI2 BPSK	50	28	23.84	23.91	23.85	25.5	0.0	
20	PI2 BPSK	50	56	23.27	23.37	23.28	25.0	0.5	
20	PI2 BPSK	100	0	23.30	23.42	23.40			
20	QPSK	1	1	23.91	23.96	23.93			
20	QPSK	1	53	23.80	23.89	23.86	25.5	0.0	
20	QPSK	1	104	23.79	23.91	23.85	24.5	1.0	
20	QPSK	50	0	23.69	23.19	23.16			
20	QPSK	50	28	23.90	23.94	23.94			
20	QPSK	50	56	23.03	23.18	23.10	24.5	1.0	
20	QPSK	100	0	23.11	23.21	23.17	24.5	1.0	
20	16QAM	1	1	23.43	23.52	23.44			
20	64QAM	1	1	23.84	23.92	23.91			
20	256QAM	1	1	19.99	20.09	20.07	21.0	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	23.10	23.12	23.10	25.5	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	23.72	23.76	23.73	25.5	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	23.71	23.78	23.76	25.5	0.0	

n66_Ant 11									
BW [MHz]	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	P12 BPSK	1	1	18.77	18.80	18.65	20.0	0.0	
40	P12 BPSK	1	108	18.69	18.85	18.56			
40	P12 BPSK	1	214	18.78	18.80	18.59			
40	P12 BPSK	108	0	18.75	18.68	18.57	20.0	0.0	
40	P12 BPSK	108	54	18.71	18.60	18.68	20.0	0.0	
40	P12 BPSK	108	108	18.73	18.74	18.68	20.0	0.0	
40	P12 BPSK	216	0	18.67	18.76	18.62			
40	QPSK	1	1	18.81	18.89	18.77			
40	QPSK	1	108	18.77	18.79	18.56	20.0	0.0	
40	QPSK	1	214	18.69	18.81	18.63			
40	QPSK	108	0	18.67	18.73	18.70			
40	QPSK	108	54	18.72	18.77	18.71	20.0	0.0	
40	QPSK	108	108	18.65	18.73	18.64	20.0	0.0	
40	QPSK	216	0	18.70	18.72	18.70	20.0	0.0	
40	16QAM	1	1	18.72	18.73	18.61	20.0	0.0	
40	64QAM	1	1	18.71	18.72	18.69	20.0	0.0	
40	256QAM	1	1	18.60	18.71	18.58	20.0	0.0	
Channel				345500	349000	352000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)	
35	QPSK	1	1	18.70	18.73	18.75	20.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	18.60	18.71	18.73	20.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	18.74	18.79	18.73	20.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	18.65	18.69	18.67	20.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	18.70	18.74	18.71	20.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	18.63	18.75	18.57	20.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	18.63	18.84	18.70	20.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	19.26	19.24	19.24	20.0	0.0	
40	P12 BPSK	1	108	19.12	19.35	19.16			
40	P12 BPSK	1	214	19.16	19.32	19.20			
40	P12 BPSK	108	0	19.28	19.25	19.33	20.0	0.0	
40	P12 BPSK	108	54	19.14	19.24	19.35	20.0	0.0	
40	P12 BPSK	108	108	19.30	19.28	19.23	20.0	0.0	
40	P12 BPSK	216	0	19.13	19.34	19.16			
40	QPSK	1	1	19.33	19.43	19.37			
40	QPSK	1	108	19.26	19.26	19.20	20.0	0.0	
40	QPSK	1	214	19.26	19.32	19.24			
40	QPSK	108	0	19.19	19.33	19.19			
40	QPSK	108	54	19.22	19.37	19.31	20.0	0.0	
40	QPSK	108	108	19.21	19.29	19.27	20.0	0.0	
40	QPSK	216	0	19.22	19.32	19.27	20.0	0.0	
40	16QAM	1	1	19.26	19.25	19.22	20.0	0.0	
40	64QAM	1	1	19.16	19.25	19.29	20.0	0.0	
40	256QAM	1	1	19.21	19.24	19.17	20.0	0.0	
Channel				345500	349000	352000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)	
35	QPSK	1	1	19.17	19.40	19.29	20.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	19.23	19.25	19.21	20.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	19.20	19.29	19.29	20.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	19.24	19.40	19.33	20.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	19.21	19.41	19.31	20.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	19.20	19.37	19.23	20.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	19.31	19.41	19.29	20.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	19.63	19.67	19.74	20.5	0.0	
40	P12 BPSK	1	108	19.60	19.82	19.71			
40	P12 BPSK	1	214	19.64	19.84	19.69			
40	P12 BPSK	108	0	19.65	19.83	19.70	20.5	0.0	
40	P12 BPSK	108	54	19.69	19.72	19.83	20.5	0.0	
40	P12 BPSK	108	108	19.60	19.78	19.67	20.5	0.0	
40	P12 BPSK	216	0	19.75	19.69	19.58			
40	QPSK	1	1	19.81	19.97	19.67			
40	QPSK	1	108	19.65	19.75	19.67	20.5	0.0	
40	QPSK	1	214	19.66	19.77	19.69			
40	QPSK	108	0	19.63	19.78	19.69			
40	QPSK	108	54	19.75	19.81	19.71	20.5	0.0	
40	QPSK	108	108	19.62	19.67	19.58	20.5	0.0	
40	QPSK	216	0	19.75	19.77	19.68	20.5	0.0	
40	16QAM	1	1	19.77	19.72	19.63	20.5	0.0	
40	64QAM	1	1	19.76	19.78	19.71	20.5	0.0	
40	256QAM	1	1	19.61	19.75	19.62	20.5	0.0	
Channel				345500	349000	352000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)	
35	QPSK	1	1	19.73	19.82	19.69	20.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	19.72	19.83	19.68	20.5	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	19.72	19.73	19.71	20.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	19.76	19.78	19.68	20.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	19.62	19.65	19.74	20.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	19.65	19.78	19.55	20.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	19.78	19.75	19.60	20.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	15.90	15.92	15.79	17.0	0.0	
40	PI2 BPSK	1	53	15.86	15.93	15.72			
40	PI2 BPSK	1	104	15.91	15.87	15.68			
40	PI2 BPSK	50	0	15.87	15.83	15.77			
40	PI2 BPSK	50	28	15.79	15.80	15.80	17.0	0.0	
40	PI2 BPSK	50	56	15.90	15.86	15.69	17.0	0.0	
40	PI2 BPSK	100	0	15.76	15.97	15.81	17.0	0.0	
40	QPSK	1	1	15.93	15.99	15.97	17.0	0.0	
40	QPSK	1	53	15.73	15.84	15.77			
40	QPSK	1	104	15.78	15.86	15.82			
40	QPSK	50	0	15.90	15.90	15.78			
40	QPSK	50	28	15.96	15.93	15.81	17.0	0.0	
40	QPSK	50	56	15.87	15.86	15.66	17.0	0.0	
40	QPSK	100	0	15.73	15.95	15.84	17.0	0.0	
40	16QAM	1	1	15.88	15.97	15.80	17.0	0.0	
40	64QAM	1	1	15.80	15.87	15.82	17.0	0.0	
40	256QAM	1	1	15.76	15.81	15.72	17.0	0.0	
Channel				517002	518000	520998	Tune-up limit	MPR	
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)	
30	QPSK	1	1	15.87	15.81	15.69	17.0	0.0	
Channel				519000	519000	522000	Tune-up limit	MPR	
Frequency (MHz)				2590	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	15.77	15.81	15.70	17.0		
Channel				519502	519000	522498	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)	
15	QPSK	1	1	15.73	15.93	15.80	17.0	0.0	
Channel				519004	519000	522996	Tune-up limit	MPR	
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	15.72	15.89	15.85	17.0		
Channel				519502	519000	522500	Tune-up limit	MPR	
Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)	
5	QPSK	1	1	15.80	15.97	15.67	17.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	14.32	14.42	14.36	16.0	0.0	0.0
40	PI2 BPSK	1	53	14.30	14.31	14.45			
40	PI2 BPSK	1	104	14.24	14.25	14.26			
40	PI2 BPSK	50	0	14.28	14.38	14.20	16.0	0.0	0.0
40	PI2 BPSK	50	28	14.34	14.38	14.17	16.0	0.0	0.0
40	PI2 BPSK	50	56	14.23	14.31	14.14	16.0	0.0	0.0
40	PI2 BPSK	100	0	14.30	14.28	14.22	16.0	0.0	0.0
40	QPSK	1	1	14.48	14.50	14.40	16.0	0.0	0.0
40	QPSK	1	53	14.41	14.46	14.25			
40	QPSK	1	104	14.27	14.44	14.35			
40	QPSK	50	0	14.30	14.35	14.30	16.0	0.0	0.0
40	QPSK	50	28	14.28	14.33	14.24	16.0	0.0	0.0
40	QPSK	50	56	14.26	14.37	14.29	16.0	0.0	0.0
40	QPSK	100	0	14.25	14.30	14.15	16.0	0.0	0.0
40	16QAM	1	1	14.21	14.26	14.18	16.0	0.0	0.0
40	64QAM	1	1	14.20	14.19	14.21	16.0	0.0	0.0
40	256QAM	1	1	14.30	14.39	14.35	16.0	0.0	0.0
Channel				517002	519000	520998	Tune-up limit	MPR	
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)	
30	QPSK	1	1	14.29	14.20	14.39	16.0	0.0	0.0
Channel				519000	519000	522000	Tune-up limit	MPR	
Frequency (MHz)				2590	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	14.27	14.26	14.38	16.0		
Channel				519502	519000	522498	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)	
15	QPSK	1	1	14.41	14.46	14.23	16.0	0.0	0.0
Channel				519004	519000	522996	Tune-up limit	MPR	
Frequency (MHz)				2575.02	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	14.30	14.16	14.36	16.0		
Channel				519502	519000	522500	Tune-up limit	MPR	
Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)	
5	QPSK	1	1	14.27	14.37	14.32	16.0	0.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	20.02	20.20	20.14	21.5	0.0	
40	PI2 BPSK	1	53	20.10	20.02	20.16			
40	PI2 BPSK	1	104	20.14	20.08	20.12			
40	PI2 BPSK	50	0	20.00	20.04	19.98	21.5		0.0
40	PI2 BPSK	50	28	20.00	20.12	20.06	21.5	0.0	
40	PI2 BPSK	50	56	20.07	20.09	20.14	21.5	0.0	
40	PI2 BPSK	100	0	19.96	20.12	19.98	21.5	0.0	
40	QPSK	1	1	20.18	20.27	20.22			
40	QPSK	1	53	20.12	20.11	20.20	21.5	0.0	
40	QPSK	1	104	20.17	20.20	20.18			
40	QPSK	50	0	20.14	20.04	20.06			
40	QPSK	50	28	20.05	20.08	19.94	21.5	0.0	
40	QPSK	50	56	19.83	20.04	20.04			
40	QPSK	100	0	20.02	20.04	19.98	21.5	0.0	
40	16QAM	1	1	20.00	20.16	20.17	21.5	0.0	
40	64QAM	1	1	20.04	20.00	20.07	21.5	0.0	
40	256QAM	1	1	20.01	20.15	20.00	21.5	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	20.03	20.04	20.00	21.5	0.0	
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.92	19.99	20.02	21.5	0.0	
Channel				519502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.07	20.03	20.07	21.5	0.0	
Channel				519004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.98	20.08	20.06	21.5	0.0	
Channel				519502	519000	522500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	1	20.00	19.98	19.92	21.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	528000	2540		
Frequency (MHz)				2540.01	2592.99	2644.98			
100	PQ2 BPSK	1	1	15.70	15.87	15.75	17.0	0.0	
100	PQ2 BPSK	1	137	15.64	15.89	15.80			
100	PQ2 BPSK	1	271	15.70	15.85	15.84	17.0	0.0	
100	PQ2 BPSK	135	0	15.79	15.78	15.71			
100	PQ2 BPSK	135	69	15.77	15.80	15.73	17.0	0.0	
100	PQ2 BPSK	135	138	15.66	15.80	15.70			
100	PQ2 BPSK	270	0	15.60	15.87	15.78	17.0	0.0	
100	QPSK	1	1	15.81	15.99	15.95			
100	QPSK	1	137	15.76	15.73	15.85	17.0	0.0	
100	QPSK	1	271	15.76	15.82	15.69			
100	QPSK	135	0	15.65	15.86	15.73	17.0	0.0	
100	QPSK	135	69	15.70	15.89	15.85			
100	QPSK	135	138	15.74	15.86	15.61	17.0	0.0	
100	QPSK	270	0	15.65	15.85	15.82			
100	16QAM	1	1	15.73	15.90	15.67	17.0	0.0	
100	64QAM	1	1	15.69	15.78	15.68			
100	256QAM	1	1	15.72	15.71	15.72	17.0	0.0	
Channel				505200	518998	529596		Tune-up limit (dBm)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.66	15.81	15.72	17.0	0.0	
Channel				507204	518998	529996		Tune-up limit (dBm)	
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	15.60	15.90	15.82	17.0	0.0	
Channel				506202	518998	531000		Tune-up limit (dBm)	
Frequency (MHz)				2631.01	2592.99	2695			
70	QPSK	1	1	15.60	15.73	15.70	17.0	0.0	
Channel				505200	518998	531996		Tune-up limit (dBm)	
Frequency (MHz)				2526	2592.99	2699.98			
60	QPSK	1	1	15.66	15.82	15.68	17.0	0.0	
Channel				505204	518998	532000		Tune-up limit (dBm)	
Frequency (MHz)				2521.02	2592.99	2694.99			
50	QPSK	1	1	15.68	15.90	15.78	17.0	0.0	
Channel				503202	518998	534000		Tune-up limit (dBm)	
Frequency (MHz)				2616.01	2592.99	2690			
40	QPSK	1	1	15.59	15.80	15.66	17.0	0.0	
Channel				502200	518998	534996		Tune-up limit (dBm)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.60	15.84	15.84	17.0	0.0	
Channel				501204	518998	535998		Tune-up limit (dBm)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.61	15.85	15.79	17.0	0.0	
Channel				500700	518998	536992		Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2592.99	2692.48			
15	QPSK	1	1	15.77	15.91	15.77	17.0	0.0	
Channel				500202	518998	537000		Tune-up limit (dBm)	
Frequency (MHz)				2501.01	2592.99	2695			
10	QPSK	1	1	15.67	15.82	15.71	17.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	528000	2540		
Frequency (MHz)				2540.01	2592.99	2644.98			
100	PQ2 BPSK	1	1	14.67	14.72	14.61	16.5	0.0	
100	PQ2 BPSK	1	137	14.68	14.73	14.61			
100	PQ2 BPSK	1	271	14.63	14.72	14.61	16.5	0.0	
100	PQ2 BPSK	135	0	14.61	14.85	14.56			
100	PQ2 BPSK	135	69	14.75	14.73	14.63	16.5	0.0	
100	PQ2 BPSK	135	138	14.74	14.65	14.56			
100	PQ2 BPSK	270	0	14.65	14.67	14.63	16.5	0.0	
100	QPSK	1	1	14.75	14.96	14.75			
100	QPSK	1	137	14.68	14.83	14.73	16.5	0.0	
100	QPSK	1	271	14.74	14.88	14.69			
100	QPSK	135	0	14.67	14.75	14.59	16.5	0.0	
100	QPSK	135	69	14.61	14.78	14.72			
100	QPSK	135	138	14.68	14.77	14.74	16.5	0.0	
100	QPSK	270	0	14.64	14.75	14.71			
100	16QAM	1	1	14.67	14.90	14.78	16.5	0.0	
100	64QAM	1	1	14.69	14.70	14.65		16.5	
100	256QAM	1	1	14.50	14.83	14.64			
Channel				505200	518998	529596	2541	Tune-up limit (dBm)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.85	14.85	14.75	16.5	0.0	
Channel				507204	518998	529996		Tune-up limit (dBm)	
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	14.83	14.90	14.64	16.5	0.0	
Channel				506202	518998	531000		Tune-up limit (dBm)	
Frequency (MHz)				2631.01	2592.99	2695			
70	QPSK	1	1	14.63	14.81	14.84	16.5	0.0	
Channel				505200	518998	531996		Tune-up limit (dBm)	
Frequency (MHz)				2526	2592.99	2699.98			
60	QPSK	1	1	14.83	14.83	14.71	16.5	0.0	
Channel				505204	518998	532000		Tune-up limit (dBm)	
Frequency (MHz)				2521.02	2592.99	2694.99			
50	QPSK	1	1	14.67	14.84	14.79	16.5	0.0	
Channel				503202	518998	534000		Tune-up limit (dBm)	
Frequency (MHz)				2616.01	2592.99	2690			
40	QPSK	1	1	14.83	14.83	14.78	16.5	0.0	
Channel				502200	518998	534996		Tune-up limit (dBm)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.83	14.82	14.80	16.5	0.0	
Channel				501204	518998	535998		Tune-up limit (dBm)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.74	14.95	14.84	16.5	0.0	
Channel				500700	518998	536992		Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2592.99	2692.48			
15	QPSK	1	1	14.70	14.91	14.89	16.5	0.0	
Channel				500202	518998	537000		Tune-up limit (dBm)	
Frequency (MHz)				2501.01	2592.99	2695			
10	QPSK	1	1	14.81	14.85	14.78	16.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	528000	2540		
Frequency (MHz)				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.22	21.21	21.18	23.0	0.0	
100	PQ2 BPSK	1	137	21.11	21.26	21.13			
100	PQ2 BPSK	1	271	21.33	21.26	21.31	23.0	0.0	
100	PQ2 BPSK	135	0	21.08	21.13	21.17			
100	PQ2 BPSK	135	69	21.23	21.16	21.05	23.0	0.0	
100	PQ2 BPSK	135	138	21.16	21.18	21.11			
100	PQ2 BPSK	1	270	0	21.16	21.30	23.0	0.0	
100	PQ2 BPSK	1	1	21.24	21.38	21.27			
100	QPSK	1	137	21.23	21.39	21.24	23.0	0.0	
100	QPSK	1	271	21.22	21.42	21.23			
100	QPSK	1	138	21.17	21.27	21.26	23.0	0.0	
100	QPSK	135	69	21.11	21.25	21.13			
100	QPSK	135	138	21.12	21.13	21.13	23.0	0.0	
100	QPSK	270	0	21.07	21.27	21.17			
100	16QAM	1	1	21.18	21.09	21.21	23.0	0.0	
100	64QAM	1	1	21.02	21.20	21.08			
100	256QAM	1	1	21.40	21.46	21.37	22.2	1.0	
Channel				506200	518998	528996			
Frequency (MHz)				2541	2592.99	2644.98			
80	QPSK	1	1	21.37	21.37	21.18	23.0	0.0	
Channel				507204	518998	529998			
Frequency (MHz)				2538.02	2592.99	2644.99			
80	QPSK	1	1	21.26	21.29	21.42	23.0	0.0	
Channel				506202	518998	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.20	21.24	21.24	23.0	0.0	
Channel				506200	518998	531996			
Frequency (MHz)				2536	2592.99	2659.99			
60	QPSK	1	1	21.38	21.37	21.27	23.0	0.0	
Channel				504204	518998	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.32	21.38	21.30	23.0	0.0	
Channel				506202	518998	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.29	21.32	21.29	23.0	0.0	
Channel				502200	518998	535996			
Frequency (MHz)				2611	2592.99	2674.96			
30	QPSK	1	1	21.27	21.39	21.28	23.0	0.0	
Channel				501204	518998	536998			
Frequency (MHz)				2507.02	2592.99	2679.99			
20	QPSK	1	1	21.18	21.37	21.21	23.0	0.0	
Channel				500200	518998	538496			
Frequency (MHz)				2503.05	2592.99	2682.48			
15	QPSK	1	1	21.22	21.30	21.28	23.0	0.0	
Channel				500200	518998	539000			
Frequency (MHz)				2501.01	2592.99	2693			
10	QPSK	1	1	21.38	21.37	21.36	23.0	0.0	
Channel				500200	518998	539000			



Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PQ2 BPSK	1	1	17.02					
100	PQ2 BPSK	1	137	16.92			18.5	0.0	
100	PQ2 BPSK	1	271	16.90					
100	PQ2 BPSK	135	0	16.75			18.5	0.0	
100	PQ2 BPSK	135	69	16.91			18.5	0.0	
100	PQ2 BPSK	135	138	16.96			18.5	0.0	
100	PQ2 BPSK	270	0	16.87					
100	QPSK	1	1	17.05					
100	QPSK	1	137	16.96			18.5	0.0	
100	QPSK	1	271	16.93					
100	QPSK	135	0	16.87					
100	QPSK	135	69	17.05			18.5	0.0	
100	QPSK	135	138	16.92					
100	QPSK	270	0	16.95			18.5	0.0	
100	16QAM	1	1	16.78			18.5	0.0	
100	64QAM	1	1	16.75			18.5	0.0	
100	256QAM	1	1	16.79			18.5	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	16.73	16.92	16.93	18.5	0.0	
Channel				632998	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	16.66	16.75	16.91	18.5	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3482.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	16.60	16.74	16.77	18.5	0.0	
Channel				632000	633332	634998	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	16.60	16.70	16.76	18.5	0.0	
Channel				631705	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	16.78	16.82	16.93	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3524.98	(dBm)	(dB)	
40	QPSK	1	1	16.85	16.96	16.96	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	16.60	16.70	16.81	18.5	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
25	QPSK	1	1	16.82	17.05	16.91	18.5	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
20	QPSK	1	1	16.69	16.84	16.82	18.5	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
15	QPSK	1	1	16.82	16.73	16.70	18.5	0.0	

Part27Q_n77_Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	636000	642000			
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	16.83	16.81	16.79			
100	PQ2 BPSK	1	137	16.99	16.87	16.89	18.5	0.0	
100	PQ2 BPSK	1	271	16.81	16.93	16.82			
100	PQ2 BPSK	135	0	16.65	16.80	16.79	18.5	0.0	
100	PQ2 BPSK	135	69	16.56	16.80	16.77	18.5	0.0	
100	PQ2 BPSK	135	138	16.85	16.71	16.80			
100	PQ2 BPSK	270	0	16.72	16.89	16.79	18.5	0.0	
100	QPSK	1	1	16.85	17.05	16.75			
100	QPSK	1	137	16.81	16.96	16.75	18.5	0.0	
100	QPSK	1	271	16.60	16.92	16.77			
100	QPSK	135	0	16.67	16.76	16.94			
100	QPSK	135	69	16.62	16.95	16.81	18.5	0.0	
100	QPSK	135	138	16.75	16.84	16.83			
100	QPSK	270	0	16.60	16.87	16.71	18.5	0.0	
100	16QAM	1	1	16.60	16.81	16.99	18.5	0.0	
100	64QAM	1	1	16.54	16.79	16.92	18.5	0.0	
100	256QAM	1	1	16.60	16.81	16.91	18.5	0.0	
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	16.70	16.78	16.70	18.5	0.0	
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	16.68	16.81	16.87	18.5	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	16.65	16.73	16.55	18.5	0.0	
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	16.80	16.63	16.67	18.5	0.0	
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	16.72	16.85	16.74	18.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)	
40	QPSK	1	1	16.68	16.63	16.74	18.5	0.0	
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3954.98	(dBm)	(dB)	
30	QPSK	1	1	16.68	16.73	16.71	18.5	0.0	
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3959.99	(dBm)	(dB)	
25	QPSK	1	1	16.88	16.91	16.86	18.5	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
20	QPSK	1	1	16.77	17.02	16.85	18.5	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
15	QPSK	1	1	16.72	17.02	16.68	18.5	0.0	

Part27Q_n77_Ant 12									
BW (MHz)	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	PQ2 BPSK	1	1		16.02		17.5	0.0	
100	PQ2 BPSK	1	137		15.99				
100	PQ2 BPSK	1	271		16.09				
100	PQ2 BPSK	135	0		16.10		17.5	0.0	
100	PQ2 BPSK	135	69		16.08		17.5	0.0	
100	PQ2 BPSK	135	138		16.03		17.5	0.0	
100	PQ2 BPSK	270	0		16.05				
100	QPSK	1	1		16.24				
100	QPSK	1	137		16.11		17.5	0.0	
100	QPSK	1	271		16.18				
100	QPSK	135	0		15.91				
100	QPSK	135	69		16.13		17.5	0.0	
100	QPSK	135	138		16.07				
100	QPSK	270	0		16.08		17.5	0.0	
100	16QAM	1	1		16.06		17.5	0.0	
100	64QAM	1	1		16.04		17.5	0.0	
100	256QAM	1	1		16.01		17.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	16.07	16.18	16.19	17.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3501			
80	QPSK	1	1	16.16	16.23	16.09	17.5	0.0	
Channel				632335	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.01	3499.98	3514.98			
70	QPSK	1	1	15.98	16.22	16.10	17.5	0.0	
Channel				632002	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.01	3499.98	3518.99			
60	QPSK	1	1	16.04	16.04	16.06	17.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	16.12	16.23	16.09	17.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.01	16.20	16.18	17.5	0.0	
Channel				631001	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	16.21	16.23	15.99	17.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.02	3499.98	3540			
25	QPSK	1	1	16.17	16.18	16.10	17.5	0.0	
Channel				630335	633332	636336	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	16.07	16.10	16.08	17.5	0.0	
Channel				630002	633332	636666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	16.05	16.12	16.09	17.5	0.0	

Part270_n77_Ant 12									
BW (MHz)	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	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	15.80	16.04	15.87			
100	P12 BPSK	1	137	15.85	15.94	15.94	17.5	0.0	
100	P12 BPSK	1	271	15.78	16.06	15.94			
100	P12 BPSK	135	0	15.88	16.10	15.82	17.5	0.0	
100	P12 BPSK	135	69	15.94	16.17	15.84	17.5	0.0	
100	P12 BPSK	135	138	15.77	15.91	15.84			
100	P12 BPSK	270	0	15.76	16.11	16.00	17.5	0.0	
100	QPSK	1	1	15.85	16.19	16.05			
100	QPSK	1	137	15.90	16.07	15.96	17.5	0.0	
100	QPSK	1	271	15.84	16.15	16.00			
100	QPSK	135	0	15.76	15.96	15.83			
100	QPSK	135	69	15.80	16.11	15.95	17.5	0.0	
100	QPSK	135	138	15.76	16.04	15.83			
100	QPSK	270	0	15.70	16.05	15.88	17.5	0.0	
100	16QAM	1	1	15.67	16.04	15.96	17.5	0.0	
100	64QAM	1	1	15.72	16.04	15.78	17.5	0.0	
100	256QAM	1	1	15.68	16.15	15.99	17.5	0.0	
Channel				659500	659500	659532	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	15.68	15.98	15.76	17.5	0.0	
Channel				660300	660300		Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3933.99			
80	QPSK	1	1	15.70	15.98	15.72	17.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	15.63	16.05	15.81	17.5	0.0	
Channel				649600	659000	663302	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	1	15.71	16.00	15.76	17.5	0.0	
Channel				653334	655000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	15.66	15.93	15.84	17.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3724	3840	3960			
40	QPSK	1	1	15.68	15.88	15.89	17.5	0.0	
Channel				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	1	15.57	16.01	15.73	17.5	0.0	
Channel				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
25	QPSK	1	1	15.89	15.85	15.81	17.5	0.0	
Channel				647100	655000	664502	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.32	3840	3972.48			
20	QPSK	1	1	15.62	16.01	15.91	17.5	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
15	QPSK	1	1	15.61	15.88	15.77	17.5	0.0	

Part270_n77_Ant 23									
BW (MHz)	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	6349.98			
Frequency (MHz)									
100	P12 BPSK	1	1	16.84					
100	P12 BPSK	1	137	16.97			18.5	0.0	
100	P12 BPSK	1	271	16.95					
100	P12 BPSK	135	0	16.87			18.5	0.0	
100	P12 BPSK	135	69	16.85			18.5	0.0	
100	P12 BPSK	135	138	16.93					
100	P12 BPSK	270	0	16.81			18.5	0.0	
100	QPSK	1	1	17.05					
100	QPSK	1	137	16.86			18.5	0.0	
100	QPSK	1	271	16.89					
100	QPSK	135	0	16.86					
100	QPSK	135	69	16.97			18.5	0.0	
100	QPSK	135	138	16.81					
100	QPSK	270	0	16.85			18.5	0.0	
100	16QAM	1	1	16.87			18.5	0.0	
100	64QAM	1	1	16.85			18.5	0.0	
100	256QAM	1	1	16.87			18.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	16.92	16.85	16.77	18.5	0.0	
Channel				634066	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3499.98	3505			
80	QPSK	1	1	16.82	16.89	17.02	18.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	16.84	17.00	16.82	18.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	16.86	16.83	16.85	18.5	0.0	
Channel				631700	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	16.91	16.80	16.80	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	16.89	16.80	16.58	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	16.93	16.65	16.61	18.5	0.0	
Channel				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
25	QPSK	1	1	16.70	16.62	16.62	18.5	0.0	
Channel				630300	633332	636302	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
20	QPSK	1	1	16.83	16.90	16.93	18.5	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
15	QPSK	1	1	16.72	16.85	16.52	18.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	16.53	17.13	17.20			
100	P12 BPSK	1	137	16.52	17.22	17.11	18.5	0.0	
100	P12 BPSK	1	271	16.53	17.07	17.15			
100	P12 BPSK	135	0	16.53	16.99	17.10	18.5	0.0	
100	P12 BPSK	135	69	16.59	17.21	16.99	18.5	0.0	
100	P12 BPSK	135	138	16.55	17.60	17.14	18.5	0.0	
100	P12 BPSK	270	0	16.62	17.63	17.17	18.5	0.0	
100	QPSK	1	1	16.64	17.39	17.51			
100	QPSK	1	137	16.56	17.23	17.18	18.5	0.0	
100	QPSK	1	271	16.54	17.25	17.08			
100	QPSK	135	0	16.41	17.14	16.97			
100	QPSK	135	69	16.59	17.15	16.98	18.5	0.0	
100	QPSK	135	138	16.54	17.07	17.13			
100	QPSK	270	0	16.69	17.11	17.10	18.5	0.0	
100	16QAM	1	1	16.58	17.17	17.09	18.5	0.0	
100	64QAM	1	1	16.58	17.22	17.20	18.5	0.0	
100	256QAM	1	1	16.52	17.14	17.14	18.5	0.0	
Channel				646668	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3747.470	3840	3934.488			
90	QPSK	1	1	16.53	17.13	17.11	18.5	0.0	
Channel				646334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.010	3840	3939.990			
80	QPSK	1	1	16.58	17.12	17.25	18.5	0.0	
Channel				646000	656000	663332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.53	17.21	17.22	18.5	0.0	
Channel				646668	656000	663332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.000	3840	3940.000			
60	QPSK	1	1	16.52	17.26	17.27	18.5	0.0	
Channel				646334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.011	3840	3954.990			
50	QPSK	1	1	16.50	17.29	17.47	18.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730	3840	3960			
40	QPSK	1	1	16.67	17.12	16.97	18.5	0.0	
Channel				646668	656000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3741.668	3840	3954.488			
30	QPSK	1	1	16.54	17.27	17.22	18.5	0.0	
Channel				647334	666000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3747.011	3747.011	3959.990			
25	QPSK	1	1	16.74	17.12	17.16	18.5	0.0	
Channel				647168	662000	664832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3767.502	3840	3992.488			
20	QPSK	1	1	16.59	17.13	17.18	18.5	0.0	
Channel				647000	666000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3765	3840	3992			
15	QPSK	1	1	16.56	17.23	17.24	18.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR [dB]	
	Channel				633332			
	Frequency (Mhz)				3499.98			
100	P12 BPSK	1	1	15.87				
100	P12 BPSK	1	137	15.87				
100	P12 BPSK	1	231	15.87		17.5	0.0	
100	P12 BPSK	135	6	15.87				
100	P12 BPSK	135	69	16.72		17.5	0.0	
100	P12 BPSK	135	138	15.87		17.5	0.0	
100	P12 BPSK	270	0	15.87		17.5	0.0	
100	QPSK	1	1	15.87				
100	QPSK	1	137	15.85		17.5	0.0	
100	QPSK	1	231	15.83				
100	QPSK	135	6	15.87				
100	QPSK	135	69	15.85		17.5	0.0	
100	QPSK	135	138	15.90				
100	QPSK	270	0	15.85		17.5	0.0	
100	16QAM	1	1	15.87				
100	16QAM	1	1	15.86		17.5	0.0	
100	256QAM	1	1	15.87		17.5	0.0	
	Channel			633000	633332	633666		
	Frequency (Mhz)			3498	3499.98	3501.98		
90	QPSK	1	1	15.51	15.61	15.69	17.5	0.0
	Channel			630668	633332	634000		
	Frequency (Mhz)			3490.02	3499.98	3510		
80	QPSK	1	1	15.57	15.59	15.60	17.5	0.0
	Channel			632334	633332	634332		
	Frequency (Mhz)			3485.01	3499.98	3514.98		
70	QPSK	1	1	15.50	15.63	15.52	17.5	0.0
	Channel			632000	633332	633666		
	Frequency (Mhz)			3480	3499.98	3519.98		
60	QPSK	1	1	15.51	15.68	15.68	17.5	0.0
	Channel			631668	633332	635000		
	Frequency (Mhz)			3474.02	3499.98	3520		
50	QPSK	1	1	15.52	15.58	15.58	17.5	0.0
	Channel			631334	633332	633332		
	Frequency (Mhz)			3470.01	3499.98	3529.98		
40	QPSK	1	1	15.76	15.53	15.50	17.5	0.0
	Channel			631000	633332	635000		
	Frequency (Mhz)			3465	3499.98	3534.99		
30	QPSK	1	1	15.58	15.55	15.55	17.5	0.0
	Channel			630668	633332	636000		
	Frequency (Mhz)			3460.02	3499.98	3540		
25	QPSK	1	1	15.57	15.78	15.68	17.5	0.0
	Channel			630500	633332	636166		
	Frequency (Mhz)			3457.5	3499.98	3542.49		
20	QPSK	1	1	15.51	15.61	15.53	17.5	0.0
	Channel			630134	633332	633332		
	Frequency (Mhz)			3455.01	3499.98	3544.68		
15	QPSK	1	1	15.59	15.52	15.64	17.5	0.0

Part270_n77_Ant 21									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Freq [Ch./Freq]	Power High Freq [Ch./Freq]	Power High Freq [Ch./Freq]	Tune-up limit (dBm)	MPR (dB)	
	Channel			650000	656000	662000			
	Frequency (MHz)			3750	3840	3930			
100	RZ BPSK	1	1	15.55	16.12	16.22			
100	RZ BPSK	1	137	15.75	16.40	16.22	17.5	0.0	
100	RZ BPSK	1	271	15.69	16.14	16.12			
100	RZ BPSK	135	0	15.57	16.22	16.07	17.5	0.0	
100	RZ BPSK	135	69	15.55	16.15	16.10			
100	RZ BPSK	135	138	15.53	16.16	16.08			
100	RZ BPSK	270	0	15.54	16.10	15.98	17.5	0.0	
	Channel			15.57	16.54	16.41			
100	QPSK	1	137	15.57	16.34	16.28	17.5	0.0	
100	QPSK	1	271	15.56	16.29	16.10			
100	QPSK	135	0	15.58	16.33	16.07			
100	QPSK	135	69	15.52	16.17	16.15	17.5	0.0	
100	QPSK	135	138	15.74	16.14	16.13			
100	QPSK	270	0	15.55	16.08	16.03	17.5	0.0	
100	16QAM	1	1	15.56	16.10	16.12	17.5	0.0	
100	16QAM	1	1	15.59	16.19	16.11	17.5	0.0	
100	256QAM	1	1	15.58	16.24	16.19	17.5	0.0	
	Channel			649698	650000	652332			
	Frequency (MHz)			3415.60	3416.00	3416.40	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.56	16.34	16.42	17.5	0.0	
	Channel			648334	656000	662666	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3740.01	3840	3909.99			
80	QPSK	1	1	15.50	16.37	16.47	17.5	0.0	
	Channel			657000	657000	657000			
	Frequency (MHz)			3930	3840	3945	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.66	16.38	16.39	17.5	0.0	
	Channel			659999	659999	653332	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3710.00	3840	3949.98			
60	QPSK	1	1	15.65	16.41	16.37	17.5	0.0	
	Channel			643334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3725.01	3840	3954.99			
50	QPSK	1	1	15.59	16.38	16.38	17.5	0.0	
	Channel			656000	656000	654000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3720	3840	3960			
40	QPSK	1	1	15.55	16.33	16.20	17.5	0.0	
	Channel			658000	658000	643332	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3715.02	3840	3964.98			
30	QPSK	1	1	15.67	16.36	16.27	17.5	0.0	
	Channel			647334	656000	664666	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3710.01	3840	3959.99			
25	QPSK	1	1	15.44	16.33	16.51	17.5	0.0	
	Channel			647168	656000	664832	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3707.52	3840	3972.48			
20	QPSK	1	1	15.71	16.45	16.36	17.5	0.0	
	Channel			646000	656000	662000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3705	3840	3975			
15	QPSK	1	1	15.77	16.53	16.32	17.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. Freq.	Power Level High Ch. Freq.	Power Level Low Ch. Freq.	MPR (dB)
Channel							
	Frequency (MHz)			633332	3499.98		
100	P2/ BPSK	1	1	16.86			
100	P2/ BPSK	1	132	17.07		18.5	0.0
100	P2/ BPSK	1	271	16.95			
100	P2/ BPSK	135	0	16.94		18.5	0.0
100	P2/ BPSK	135	69	16.95		18.5	0.0
100	P2/ BPSK	135	138	16.94		18.5	0.0
100	P2/ BPSK	270	0	17.03		18.5	0.0
Channel							
100	QPSK	1	1	17.17			
100	QPSK	1	132	17.15		18.5	0.0
100	QPSK	1	271	17.00			
100	QPSK	135	0	17.11		18.5	0.0
100	QPSK	135	69	16.92		18.5	0.0
100	QPSK	135	138	16.96		18.5	0.0
100	QPSK	270	0	16.95		18.5	0.0
100	16QAM	1	1	17.01		18.5	0.0
100	16QAM	1	171	17.03		18.5	0.0
100	16QAM	1	340	16.95		18.5	0.0
Channel							
	Frequency (MHz)			633000	633332	633696	
90	QPSK	1	1	16.98	17.15	17.13	0.0
Channel							
	Frequency (MHz)			630668	633332	634000	
80	QPSK	1	1	3490.02	3499.98	3510	
Channel							
	Frequency (MHz)			632334	633332	634336	
70	QPSK	1	1	3485.01	3499.98	3514.98	
Channel							
	Frequency (MHz)			630000	633332	633996	
60	QPSK	1	1	3490.02	3499.98	3519.98	
Channel							
	Frequency (MHz)			631668	633332	635000	
50	QPSK	1	1	3475.02	3499.98	3525	
Channel							
	Frequency (MHz)			631334	633332	635336	
40	QPSK	1	1	3470.01	3499.98	3529.98	
Channel							
	Frequency (MHz)			631000	633332	635996	
30	QPSK	1	1	3465	3499.98	3534.99	
Channel							
	Frequency (MHz)			630668	633332	636000	
25	QPSK	1	1	3460.02	3499.98	3540	
Channel							
	Frequency (MHz)			630334	633332	636336	
20	QPSK	1	1	3455.01	3499.98	3544.98	
Channel							
	Frequency (MHz)			630000	633332	636696	
15	QPSK	1	1	3445.01	3499.98	3549.98	

Part270_n78_Ant 11									
BW (MHz)	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	PQ2 BPSK	1	1		16.72				
100	PQ2 BPSK	1	137		16.68		18.5		0.0
100	PQ2 BPSK	1	271		16.63				
100	PQ2 BPSK	135	0		16.64		18.5		0.0
100	PQ2 BPSK	135	69		16.64		18.5		0.0
100	PQ2 BPSK	135	138		16.61		18.5		0.0
100	PQ2 BPSK	270	0		16.63				
100	QPSK	1	1		16.91				
100	QPSK	1	137		16.88		18.5		0.0
100	QPSK	1	271		16.69				
100	QPSK	135	0		16.59		18.5		0.0
100	QPSK	135	69		16.73				
100	QPSK	135	138		16.59		18.5		0.0
100	QPSK	270	0		16.65		18.5		0.0
100	16QAM	1	1		16.77		18.5		0.0
100	64QAM	1	1		16.58		18.5		0.0
100	256QAM	1	1		16.62		18.5		0.0
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.74	16.66	16.55	18.5		0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3750	3750.99			
80	QPSK	1	1	16.68	16.58	16.65	18.5		0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3752	3750	3750			
70	QPSK	1	1	16.54	16.61	16.61	18.5		0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750.02	3750	3769.98			
60	QPSK	1	1	16.74	16.61	16.69	18.5		0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.58	16.68	16.72	18.5		0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.90	16.80	16.82	18.5		0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3784.98			
30	QPSK	1	1	16.71	16.68	16.69	18.5		0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
25	QPSK	1	1	16.83	16.90	16.87	18.5		0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.82	3750	3792.48			
20	QPSK	1	1	16.68	16.77	16.71	18.5		0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	16.61	16.76	16.62	18.5		0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PQ2 BPSK	1	1		16.69				
100	PQ2 BPSK	1	137		16.69		18.0		0.0
100	PQ2 BPSK	1	271		16.65				
100	PQ2 BPSK	135	0		16.70		18.0		0.0
100	PQ2 BPSK	135	69		16.67		18.0		0.0
100	PQ2 BPSK	135	138		16.68		18.0		0.0
100	PQ2 BPSK	270	0		16.67		18.0		0.0
100	QPSK	1	1		16.91				
100	QPSK	1	137		16.77		18.0		0.0
100	QPSK	1	271		16.84				
100	QPSK	135	0		16.53		18.0		0.0
100	QPSK	135	69		16.72		18.0		0.0
100	QPSK	135	138		16.70		18.0		0.0
100	QPSK	270	0		16.53		18.0		0.0
100	16QAM	1	1		16.63		18.0		0.0
100	64QAM	1	1		16.65		18.0		0.0
100	256QAM	1	1		16.62		18.0		0.0
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3498	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	16.54	16.63	16.59	18.0	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3498.02	3499.98	3503	(dbm)	(db)	
80	QPSK	1	1	16.47	16.57	16.52	18.0	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3514.98	(dbm)	(db)	
70	QPSK	1	1	16.51	16.69	16.49	18.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dbm)	(db)	
60	QPSK	1	1	16.60	16.64	16.55	18.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(db)	
50	QPSK	1	1	16.70	16.69	16.49	18.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(db)	
40	QPSK	1	1	16.58	16.63	16.66	18.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(db)	
30	QPSK	1	1	16.65	16.53	16.65	18.0	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(db)	
25	QPSK	1	1	16.66	16.67	16.73	18.0	0.0	
Channel				630300	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dbm)	(db)	
20	QPSK	1	1	16.61	16.53	16.63	18.0	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dbm)	(db)	
15	QPSK	1	1	16.55	16.66	16.60	18.0	0.0	

Part270_n78_Ant 12									
BW (MHz)	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)				37500					
100	PQ2 BPSK	1	1		16.50				
100	PQ2 BPSK	1	137		16.30		18.0		0.0
100	PQ2 BPSK	1	271		16.29				
100	PQ2 BPSK	135	0		16.37		18.0		0.0
100	PQ2 BPSK	135	69		16.33		18.0		0.0
100	PQ2 BPSK	135	138		16.33		18.0		0.0
100	PQ2 BPSK	270	0		16.32				
100	QPSK	1	1		16.52				
100	QPSK	1	137		16.28		18.0		0.0
100	QPSK	1	271		16.45				
100	QPSK	135	0		16.43		18.0		0.0
100	QPSK	135	69		16.46				
100	QPSK	135	138		16.43		18.0		0.0
100	QPSK	270	0		16.35		18.0		0.0
100	16QAM	1	1		16.33		18.0		0.0
100	64QAM	1	1		16.35		18.0		0.0
100	256QAM	1	1		16.37		18.0		0.0
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3754.98			
90	QPSK	1	1	16.11	16.05	16.08	18.0		0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.31	3750.3	3760.29			
80	QPSK	1	1	16.07	16.21	16.19	18.0		0.0
Channel				649220	650000	650780	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.16	16.07	16.04	18.0		0.0
Channel				649668	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3726.26	3750	3788.88			
60	QPSK	1	1	16.07	16.21	16.07	18.0		0.0
Channel				649334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.12	16.11	16.11	18.0		0.0
Channel				649334	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.25	16.13	16.13	18.0		0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.58	3750	3784.48			
30	QPSK	1	1	16.08	16.13	16.13	18.0		0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1	16.17	16.23	16.16	18.0		0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.48			
20	QPSK	1	1	16.03	16.15	16.12	18.0		0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	16.20	16.07	16.00	18.0		0.0

Part27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		3499.98			
Frequency (MHz)				17.24					
100	PQ2 BPSK	1	1		17.25		19.0	0.0	
100	PQ2 BPSK	1	137		17.25				
100	PQ2 BPSK	1	271		17.10				
100	PQ2 BPSK	135	0		17.22		19.0	0.0	
100	PQ2 BPSK	135	69		17.26		19.0	0.0	
100	PQ2 BPSK	135	138		17.13		19.0	0.0	
100	PQ2 BPSK	270	0		17.11				
100	QPSK	1	1		17.30				
100	QPSK	1	137		17.24		19.0	0.0	
100	QPSK	1	271		17.29				
100	QPSK	135	0		17.17				
100	QPSK	135	69		17.07		19.0	0.0	
100	QPSK	135	138		17.25		19.0	0.0	
100	QPSK	270	0		17.07				
100	16QAM	1	1		17.22		19.0	0.0	
100	64QAM	1	1		17.20		19.0	0.0	
100	256QAM	1	1		17.15		19.0	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3489	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	17.13	17.20	17.04	19.0	0.0	
Channel				632068	633332	634600	Tune-up limit	MPR	
Frequency (MHz)				3480.99	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	17.15	17.20	17.21	19.0	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3489.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	17.08	17.20	17.22	19.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	17.25	17.14	17.23	19.0	0.0	
Channel				631715	633332	635015	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	17.17	17.26	17.09	19.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3528.98	(dBm)	(dB)	
40	QPSK	1	1	17.24	17.29	17.17	19.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	17.40	17.02	17.11	19.0	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
25	QPSK	1	1	17.13	17.25	17.10	19.0	0.0	
Channel				632500	633332	636700	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
20	QPSK	1	1	17.29	17.20	17.25	19.0	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)	(dB)	
15	QPSK	1	1	17.23	17.13	17.12	19.0	0.0	

Part27Q_n78_Ant 23									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000		3750			
Frequency (MHz)				17.28					
100	PQ2 BPSK	1	1		17.16		19.0	0.0	
100	PQ2 BPSK	1	137		17.16				
100	PQ2 BPSK	1	271		17.28				
100	PQ2 BPSK	135	0		17.09		19.0	0.0	
100	PQ2 BPSK	135	69		17.19		19.0	0.0	
100	PQ2 BPSK	135	138		17.12		19.0	0.0	
100	PQ2 BPSK	270	0		17.06				
100	QPSK	1	1		17.35				
100	QPSK	1	137		17.21		19.0	0.0	
100	QPSK	1	271		17.12				
100	QPSK	135	0		17.15				
100	QPSK	135	69		17.17		19.0	0.0	
100	QPSK	135	138		17.16		19.0	0.0	
100	QPSK	270	0		17.03				
100	16QAM	1	1		17.09		19.0	0.0	
100	64QAM	1	1		17.06		19.0	0.0	
100	256QAM	1	1		17.09		19.0	0.0	
Channel				649958	650000	650032	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	17.24	17.18	17.30	19.0	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.11	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1	17.15	17.37	17.21	19.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	17.27	17.21	17.10	19.0	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	17.22	17.15	17.23	19.0	0.0	
Channel				648334	650000	651006	Tune-up limit	MPR	
Frequency (MHz)				3725	3750	3760	(dBm)	(dB)	
50	QPSK	1	1	17.12	17.18	17.20	19.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	17.09	17.32	17.33	19.0	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)	
30	QPSK	1	1	17.40	17.15	17.27	19.0	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3786.99	(dBm)	(dB)	
25	QPSK	1	1	17.26	17.35	17.30	19.0	0.0	
Channel				647000	650000	652662	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.48	(dBm)	(dB)	
20	QPSK	1	1	17.22	17.13	17.22	19.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
15	QPSK	1	1	17.15	17.25	17.25	19.0	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		3499.98	17.5	0.0	
Frequency (MHz)				15.77					
100	PI2 BPSK	1	1	15.77					
100	PI2 BPSK	1	137	15.67					
100	PI2 BPSK	1	271	15.77					
100	PI2 BPSK	135	0	15.69			17.5	0.0	
100	PI2 BPSK	135	69	15.59			17.5	0.0	
100	PI2 BPSK	135	138	15.72			17.5	0.0	
100	PI2 BPSK	270	0	15.76			17.5	0.0	
100	QPSK	1	1	15.69			17.5	0.0	
100	QPSK	1	137	15.66					
100	QPSK	1	271	15.81					
100	QPSK	135	0	15.63					
100	QPSK	135	69	15.61			17.5	0.0	
100	QPSK	135	138	15.63			17.5	0.0	
100	QPSK	270	0	15.75			17.5	0.0	
100	16QAM	1	1	15.70			17.5	0.0	
100	64QAM	1	1	15.68			17.5	0.0	
100	256QAM	1	1	15.75			17.5	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3469	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	15.65	15.50	15.71	17.5	0.0	
Channel				630098	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3460.99	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	15.68	15.74	15.75	17.5	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3480.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	15.50	15.62	15.59	17.5	0.0	
Channel				630000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)	
60	QPSK	1	1	15.76	15.66	15.65	17.5	0.0	
Channel				631616	633332	635016	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	15.71	15.66	15.68	17.5	0.0	
Channel				631134	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3528.98	(dBm)	(dB)	
40	QPSK	1	1	15.67	15.68	15.68	17.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	15.74	15.67	15.67	17.5	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
25	QPSK	1	1	15.56	15.76	15.84	17.5	0.0	
Channel				630500	633332	636700	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)	
20	QPSK	1	1	15.73	15.69	15.65	17.5	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3462.01	3499.98	3544.98	(dBm)	(dB)	
15	QPSK	1	1	15.65	15.67	15.55	17.5	0.0	

Part27Q_n78_Ant 21									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000		3750	17.5	0.0	
Frequency (MHz)				15.79					
100	PI2 BPSK	1	1	15.81					
100	PI2 BPSK	1	137	15.81					
100	PI2 BPSK	1	271	15.80					
100	PI2 BPSK	135	0	15.50			17.5	0.0	
100	PI2 BPSK	135	69	15.63			17.5	0.0	
100	PI2 BPSK	135	138	15.57			17.5	0.0	
100	PI2 BPSK	270	0	15.70			17.5	0.0	
100	QPSK	1	1	15.69			17.5	0.0	
100	QPSK	1	137	15.71					
100	QPSK	1	271	15.67					
100	QPSK	135	0	15.51					
100	QPSK	135	69	15.76			17.5	0.0	
100	QPSK	135	138	15.62			17.5	0.0	
100	QPSK	270	0	15.72			17.5	0.0	
100	16QAM	1	1	15.58			17.5	0.0	
100	64QAM	1	1	15.69			17.5	0.0	
100	256QAM	1	1	15.63			17.5	0.0	
Channel				649668	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	15.75	15.82	15.86	17.5	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	15.66	15.73	15.78	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	15.81	15.75	15.81	17.5	0.0	
Channel				648668	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	15.67	15.72	15.88	17.5	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	15.69	15.61	15.67	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3724	3750	3760	(dBm)	(dB)	
40	QPSK	1	1	15.88	15.68	15.86	17.5	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3713.02	3750	3764.98	(dBm)	(dB)	
30	QPSK	1	1	15.60	15.79	15.70	17.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3769.99	(dBm)	(dB)	
25	QPSK	1	1	15.62	15.82	15.82	17.5	0.0	
Channel				647100	650000	652932	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3762.48	(dBm)	(dB)	
20	QPSK	1	1	15.69	15.79	15.66	17.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3760	(dBm)	(dB)	
15	QPSK	1	1	15.75	15.55	15.72	17.5	0.0	

BT/WLAN Power

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 22			Full Power			Head Standalone		Head Simultaneous		Extremity&Body Worn Standalone		Extremity&Body Worn Simultaneous		Hotspot		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.55	19.50	12.14	14.00	11.02	13.00	17.55	19.50	18.08	18.00	18.00	18.00	98.73
		6	2437	18.07	20.00	12.12	14.00	11.16	13.00	18.07	20.00	18.15	18.00	18.00	18.00	
	802.11g 6Mbps	11	2462	18.15	20.00	12.25	14.00	11.23	13.00	18.15	20.00	18.22	18.00	18.00	18.00	98.10
		1	2412	13.62	15.50		14.00	13.00	13.62	15.50		15.50	15.50	15.50	15.50	
	802.11n-HT20 MCS0	6	2437	17.05	19.00		14.00	13.00	17.05	19.00		18.00	18.00	18.00	18.00	97.76
		11	2462	13.56	15.50		14.00	13.00	13.56	15.50		15.50	15.50	15.50	15.50	
	802.11n-HT40 MCS0	1	2412	13.58	15.50		14.00	13.00	13.58	15.50		15.50	15.50	15.50	15.50	94.95
		6	2437	16.03	18.00		14.00	13.00	16.03	18.00		18.00	18.00	18.00	18.00	
	802.11ac-VHT20 MCS0	11	2462	13.51	15.50		14.00	13.00	13.51	15.50		15.50	15.50	15.50	15.50	97.76
		6	2437	16.02	18.00		14.00	13.00	16.02	18.00		18.00	18.00	18.00	18.00	
	802.11ac-VHT40 MCS0	3	2422	11.52	13.00		13.00	13.00	11.52	13.00		13.00	13.00	13.00	13.00	94.95
		6	2437	15.34	17.00		14.00	13.00	15.34	17.00		17.00	17.00	17.00	17.00	
		9	2452	12.14	13.50		13.50	13.00	12.14	13.50		13.50	13.50	13.50	13.50	
		6	2437	15.49	17.00	Not Required	14.00	Not Required	13.00	15.49	17.00	Not Required	17.00	Not Required	17.00	
		9	2452	12.25	13.50		13.50	13.00	12.25	13.50		13.50	13.50	13.50	13.50	
		1	2412	13.53	15.50		14.00	13.00	13.53	15.50		15.50	15.50	15.50	15.50	
		6	2437	16.02	18.00		14.00	13.00	16.02	18.00		18.00	18.00	18.00	18.00	
		11	2462	13.50	15.50		14.00	13.00	13.50	15.50		15.50	15.50	15.50	15.50	
		3	2422	11.52	13.00		13.00	13.00	11.52	13.00		13.00	13.00	13.00	13.00	
		6	2437	15.34	17.00		14.00	13.00	15.34	17.00		17.00	17.00	17.00	17.00	
		9	2452	12.14	13.50		13.50	13.00	12.14	13.50		13.50	13.50	13.50	13.50	
		6	2437	15.49	17.00	Not Required	14.00	Not Required	13.00	15.49	17.00	Not Required	17.00	Not Required	17.00	

<WLAN 5GHz>

5.2GHz WLAN_Ant 22			Full Power		Head Standalone		Head Simultaneous		Extremity&Body Worn Standalone		Extremity&Body Worn Simultaneous		Hotspot		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	12	17.00		14.50	13.50	17.00	14.50	14.50	14.50	14.50	14.50	98.57	
		40	5200	18.35	20.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
		44	5220	18.49	20.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
		48	5240	18.08	20.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
	802.11n-HT20 MCS0	36	5180	15.10	17.00		14.50	13.50	17.00	14.50	14.50	14.50	14.50	14.50	97.97	
		40	5200	17.57	19.50		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
		44	5220	17.68	19.50		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
		48	5240	18.13	19.50		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
	802.11n-HT40 MCS0	38	5190	10.72	11.50	10.72	11.50	10.72	11.50	10.72	11.50	10.72	11.50	10.72	96.94	
		46	5230	17.07	18.50	13.01	14.50	11.98	13.50	16.04	17.50	13.06	14.50	13.06		14.50
		36	5180	15.02	17.00		14.50	13.50	17.00	14.50	14.50	14.50	14.50	14.50		
		40	5200	17.55	19.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
	802.11ac-VHT20 MCS0	44	5220	17.03	19.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50	97.97	
		48	5240	17.58	19.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
		38	5190	10.83	11.50		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
		46	5230	16.45	18.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
	802.11ac-VHT40 MCS0	38	5190	10.83	11.50		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50	96.94	
		46	5230	16.45	18.00		14.50	13.50	17.50	14.50	14.50	14.50	14.50	14.50		
	802.11ac-VHT80 MCS0	42	5210	9.08	10.50		10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	92.00
		42	5210	9.08	10.50		10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	

5.3GHz WLAN_Ant 22			Full Power		Head Standalone		Head Simultaneous		Extremity&Body Worn Standalone		Extremity&Body Worn Simultaneous			
Mode	Channel	Frequenc y (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle	
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.26	20.00		14.50		13.50		17.50		14.50	98.57
		56	5280	18.05	20.00		14.50		13.50		17.50		14.50	
		60	5300	18.06	20.00		14.50		13.50		17.50		14.50	
		64	5320	13.74	15.00		14.50		13.50		15.00		14.50	
	802.11n-HT20 MCS0	52	5260	18.37	19.50	Not Required	14.50	Not Required	13.50	Not Required	17.50	Not Required	14.50	97.97
		56	5280	17.59	19.50		14.50		13.50		17.50		14.50	
		60	5300	17.64	19.50		14.50		13.50		17.50		14.50	
		64	5320	13.80	15.00		14.50		13.50		15.00		14.50	
	802.11n-HT40 MCS0	54	5270	17.58	18.50	13.58	14.50	12.52	13.50	16.96	17.50	13.58	14.50	96.94
		62	5310	10.94	11.50	10.94	11.50	10.94	11.50	10.94	11.50	10.94	11.50	
		52	5260	17.74	19.00		14.50		13.50		17.50		14.50	
		56	5280	17.54	19.00		14.50		13.50		17.50		14.50	
	802.11ac-VHT20 MCS0	60	5300	17.05	19.00		14.50		13.50		17.50		14.50	97.97
		64	5320	13.70	15.00		14.50		13.50		15.00		14.50	
		54	5270	16.95	18.00	Not Required	14.50	Not Required	13.50	Not Required	17.50	Not Required	14.50	
		62	5310	10.85	11.50	Not Required	11.50	Not Required	11.50	Not Required	11.50	Not Required	11.50	
	802.11ac-VHT80 MCS0	58	5290	8.94	9.50		9.50		9.50		9.50		9.50	92.00
		58	5290	8.94	9.50		9.50		9.50		9.50		9.50	

5.5GHz WLAN_Ant 22			Full Power		Head Standalone		Head Simultaneous		Extremity&Body Worn Standalone		Extremity&Body Worn Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.59	19.50		12.00	11.00	17.59	19.50		17.00	98.57	
		116	5580	18.37	20.00		12.00	11.00	17.95	19.50		17.00		
		124	5620	18.32	20.00		12.00	11.00	17.73	19.50		17.00		
		132	5660	18.29	20.00		12.00	11.00	17.84	19.50		17.00		
	802.11n-HT20 MCS0	140	5700	16.14	18.00		12.00	11.00	16.14	18.00		17.00	97.97	
		144	5720	18.11	20.00		12.00	11.00	17.55	19.50		17.00		
		100	5500	16.21	18.00		12.00	11.00	18.00	17.00		17.00		
		116	5580	17.97	19.50		12.00	11.00	19.50	17.00		17.00		
	802.11n-HT40 MCS0	124	5620	17.83	19.50		12.00	11.00	19.50	17.00		17.00	96.94	
		132	5660	17.92	19.50		12.00	11.00	19.50	17.00		17.00		
		140	5700	16.14	17.00	Not Required	12.00	11.00	17.00	17.00	Not Required	17.00		
		144	5720	17.62	19.50	Not Required	12.00	11.00	19.50	17.00	Not Required	17.00		
	802.11ac-VHT20 MCS0	102	5510	10.91	11.50	11.50	11.50	11.00	11.50	11.50	11.50		17.00	97.97
		110	5550	16.91	18.00	12.00	12.00	11.00	18.50	17.00		17.00		
		124	5620	16.21	18.00	12.00	12.00	11.00	17.00	17.00		17.00		
		132	5670	16.40	17.00	12.00	12.00	11.00	17.50	17.00		17.00		
	802.11ac-VHT40 MCS0	142	5710	16.56	18.00	12.00	12.00	11.00	18.00	17.00		17.00	96.94	
		100	5500	16.20	18.00	12.00	12.00	11.00	18.00	17.00		17.00		
		116	5580	17.34	19.00	12.00	12.00	11.00	19.00	17.00		17.00		
		124	5620	17.79	19.00	12.00	11.00	11.00	19.00	17.00		17.00		
802.11ac-VHT80 MCS0	132	5660	17.90	19.00	12.00	12.00	11.00	19.00	17.00		17.00	92.00		
	140	5700	16.96	17.00	12.00	12.00	11.00	17.00	17.00		17.00			
	144	5720	17.00	19.00	12.00	12.00	11.00	19.00	17.00		17.00			
	102	5510	10.84	11.50	11.50	11.50	11.00	11.50	11.50		17.00			
802.11ac-VHT80 MCS0	110	5550	16.19	18.00	12.00	12.00	11.00	18.00	17.00		17.00	92.00		
	126	5630	16.15	17.00	12.00	12.00	11.00	17.00	17.00		17.00			
	134	5670	16.31	17.00	12.00	12.00	11.00	16.31	17.00		17.00			
	142	5710	16.80	18.00	12.00	11.00	11.00	18.00	17.00		17.00			
802.11ac-VHT80 MCS0	106	5530	9.41	10.00	9.41	10.00	9.41	10.00	10.00	9.41	10.00	92.00		
	122	5610	18.01	17.50	10.53	10.53	9.55	11.00	17.50	15.54	10.00			
	138	5690	17.72	17.50	10.20	10.20	9.45	11.00	17.50	15.49	10.00			
	154	5770	17.72	17.50	10.20	10.20	9.45	11.00	17.50	15.49	10.00			

BR / EDR			Ant 22				
Mode	Channel	Frequency (Mhz)	Average power (dBm)				
			1Mbps	Tune-up Limit	2Mbps	3Mbps	Tune-up Limit
BR / EDR	CH 00	2402	11.56	13.00	7.88	7.36	10.50
	CH 39	2441	12.13	13.50	8.22	8.28	11.50
	CH 78	2480	11.69	13.00	8.06	8.10	11.50

BLE			Ant 22	
Mode	Channel	Frequency (Mhz)	Average power (dBm)	
			1Mbps	Tune-up Limit
LE	CH 00	2402	4.44	8.50
	CH 19	2440	5.42	9.00
	CH 39	2480	5.48	9.00