

10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10978	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 9.6 %

^ε Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power level/Default Power level for WWAN Main PA

Cellsets	Band Average Power (dBm)			Time-avg Limit	Frame-Average Power (dBm)			Time-avg Limit
	19B	19B	20T		19B	19B	20T	
TX Channel	32.2	32.2	32.2	32.2	32.2	32.2	32.2	
Frequency BPCU	32.19	32.19	32.19	32.19	32.19	32.19	32.19	
CDMA 1 Tx sub	32.25	32.25	32.25	32.25	32.25	32.25	32.25	
CDMA 2 Tx sub	29.13	29.07	29.00	30.50	23.13	22.87	22.50	
EDGE 3 Tx sub	27.63	27.29	27.16	28.50	23.37	22.87	22.50	
EDGE 4 Tx sub	26.92	26.74	26.50	27.50	22.92	22.74	22.50	
EDGE 5 Tx sub	26.33	26.17	26.12	27.50	17.33	17.17	17.00	
EDGE 6 Tx sub	25.90	25.72	25.61	26.50	17.30	17.15	17.00	
EDGE 7 Tx sub	21.57	21.72	21.84	23.50	17.31	17.46	17.30	
EDGE 8 Tx sub	20.33	20.21	20.19	21.50	17.33	17.28	17.30	

WCDMA V And Default

Band	WCDMA V			Time-avg Limit
	4130	4180	4233	
TX Channel	4237	4401	4458	
Frequency BPCU	4244	4404	4461	
SCPP Ref B1	24.34	24.43	24.25	25.50
SCPP Ref B2	23.75	24.03	23.77	24.50
SCPP Ref B3	23.32	23.59	23.41	24.50
SCPP Ref B4	23.76	23.81	23.77	24.50
SCPP Ref B5	22.82	22.94	22.79	24.50
SCPP Ref B6	23.08	22.87	22.81	24.50
SCPP Ref B7	21.43	21.44	21.36	24.50
SCPP Ref B8	23.40	23.43	23.23	24.50
SCPP Ref B9	22.90	22.92	22.80	24.50
SCPP Ref B10	22.75	22.86	22.87	24.50
SCPP Ref B11	23.30	23.01	23.30	24.50
SCPP Ref B12	21.42	21.40	21.35	22.50
SCPP Ref B13	21.22	21.25	21.25	22.50
SCPP Ref B14	21.47	21.54	21.23	22.50
SCPP Ref B15	20.32	20.42	20.25	24.50



MINISTRY OF NATIONAL DEFENSE

Band 4 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Mask Ch./Freq.	Power Peak Ch./Freq.	Turn-up Time	MPR (dB)		
Channel										
Frequency (MHz)	RB Size	RB Offset	Power Ch./Freq.	Power Mask Ch./Freq.	Power Peak Ch./Freq.	Turn-up Time	MPR (dB)			
20	QPSK	1	0	17.95	17.92	17.93				
20	QPSK	1	49	21.83	21.81	21.82	23.5	0		
20	QPSK	1	99	21.76	21.81	21.77				
20	QPSK	1	149	21.87	21.81	21.87				
20	QPSK	50	24	20.95	20.94	20.99	22.5	1		
20	QPSK	50	74	20.94	20.95	20.99				
20	QPSK	50	124	20.96	20.95	20.92				
20	QPSK	50	174	20.98	20.95	20.92				
20	HQAM	1	0	21.08	21.08	21.08				
20	HQAM	1	49	21.18	21.12	21.19	22.5	1		
20	HQAM	1	99	21.07	20.97	20.92				
20	HQAM	1	149	21.06	20.99	20.96				
20	HQAM	50	24	19.95	19.98	19.94	21.5	2		
20	HQAM	50	74	19.95	19.95	19.95				
20	HQAM	50	124	19.97	19.95	19.99				
20	HQAM	50	174	19.88	19.92	19.94				
20	HQAM	100	0	20.99	20.98	20.93				
20	HQAM	100	49	19.97	19.95	19.99	21.5	2		
20	HQAM	100	99	19.88	19.92	19.94				
20	HQAM	100	149	19.95	19.95	19.95				
20	HQAM	100	199	19.95	19.95	19.95				
20	HQAM	50	24	18.94	18.95	18.94	20.5	3		
20	HQAM	50	74	18.91	18.86	18.86				
20	HQAM	50	124	18.93	18.97	18.95				
20	HQAM	50	174	18.94	18.94	18.99				
20	ZSSBAM	1	0	17.08	16.94	16.99				
20	ZSSBAM	1	49	16.95	16.85	16.91	18.5	5		
20	ZSSBAM	1	99	16.93	16.86	16.91				
20	ZSSBAM	1	149	16.93	16.86	16.91				
20	ZSSBAM	50	0	17.12	17.18	16.99				
20	ZSSBAM	50	49	16.97	16.97	16.97	18.5	5		
20	ZSSBAM	50	99	16.97	16.95	16.95				
20	ZSSBAM	50	149	16.93	17.22	17.16				
Channel										
Frequency (MHz)	RB Size	RB Offset	Power Ch./Freq.	Power Mask Ch./Freq.	Power Peak Ch./Freq.	Turn-up Time	MPR (dB)			
15	QPSK	1	0	21.72	21.70	21.75				
15	QPSK	1	49	21.82	21.82	21.82	23.5	0		
15	QPSK	1	99	21.69	21.62	21.63				
15	QPSK	38	0	20.87	20.97	20.93				
15	QPSK	38	49	20.77	20.82	20.82	22.5	1		
15	QPSK	38	99	20.73	20.78	20.84				
15	QPSK	75	0	20.88	20.77	20.86				
15	QPSK	75	49	20.85	20.91	20.91	24.5	1		
15	HQAM	1	0	21.08	21.10	21.12				
15	HQAM	1	49	21.07	20.98	20.98	22.5	1		
15	HQAM	1	99	21.07	20.98	20.98				
15	HQAM	50	24	19.87	19.88	19.78	21.5	2		
15	HQAM	50	74	19.88	19.87	19.74				
15	HQAM	50	124	19.85	19.74	19.73				
15	HQAM	50	174	19.87	19.85	19.86				
15	HQAM	100	0	20.87	20.85	20.86				
15	HQAM	100	49	19.84	19.84	19.88	21.5	2		
15	HQAM	100	99	19.81	19.87	19.86				
15	HQAM	100	149	19.84	19.84	19.88				
15	HQAM	100	199	19.81	19.87	19.86				
15	HQAM	50	24	18.88	18.71	18.78	20.5	3		
15	HQAM	50	74	18.88	18.71	18.78				
15	HQAM	50	124	18.88	18.74	18.74				
15	HQAM	50	174	18.88	18.74	18.71				
15	ZSSBAM	1	0	17.08	16.94	16.96				
15	ZSSBAM	1	49	16.92	16.78	16.87	18.5	5		
15	ZSSBAM	1	99	16.92	16.78	16.87				
15	ZSSBAM	50	0	17.12	17.11	16.97				
15	ZSSBAM	50	49	16.88	16.78	16.81	18.5	5		
15	ZSSBAM	50	99	16.87	16.73	16.73				
15	ZSSBAM	50	149	16.83	17.21	17.08				
Channel										
Frequency (MHz)	RB Size	RB Offset	Power Ch./Freq.	Power Mask Ch./Freq.	Power Peak Ch./Freq.	Turn-up Time	MPR (dB)			
10	QPSK	1	0	21.82	21.80	21.83				
10	QPSK	1	25	21.84	21.74	21.81	23.5	0		
10	QPSK	1	50	21.84	21.86	21.86				
10	QPSK	25	0	20.88	20.98	20.98				
10	QPSK	25	12	20.73	20.95	20.78	22.5	1		
10	QPSK	25	37	20.77	20.82	20.78				
10	HQAM	1	0	20.87	20.88	20.78				
10	HQAM	1	25	20.97	21.06	21.01	22.5	1		
10	HQAM	1	50	20.95	21.06	21.01				
10	HQAM	1	75	20.84	20.86	20.87				
10	HQAM	25	12	19.75	19.78	19.73	21.5	2		
10	HQAM	25	37	19.82	19.87	19.81				
10	HQAM	25	62	19.85	19.85	19.85				
10	HQAM	25	87	19.81	19.86	19.81	21.5	2		
10	HQAM	25	112	19.85	19.77	19.86				
10	HQAM	25	137	19.81	19.86	19.81				
10	HQAM	25	162	19.81	19.84	19.78				
10	HQAM	50	12	18.81	18.86	18.85	20.5	3		
10	HQAM	50	37	18.88	18.86	18.85				
10	HQAM	50	62	18.84	18.86	18.85				
10	HQAM	50	87	18.88	18.86	18.85				
10	HQAM	50	112	18.81	18.77	18.78	18.5	5		
10	HQAM	50	137	18.81	18.77	18.78				
10	HQAM	50	162	18.88	18.78	18.71				
10	HQAM	50	187	18.87	18.73	18.73				
10	HQAM	100	0	20.87	20.78	20.87				
10	HQAM	100	25	19.82	19.82	19.82	21.5	2		
10	HQAM	100	50	19.81	19.86	19.81				
10	HQAM	100	75	19.81	19.86	19.81				
10	HQAM	100	100	19.81	19.86	19.81				
10	HQAM	100	125	19.81	19.86	19.81				
10	HQAM	100	150	19.81	19.86	19.81				
10	HQAM	100	175	19.81	19.86	19.81				
10	HQAM	100	200	19.81	19.86	19.81				
10	HQAM	100	225	19.81	19.86	19.81				
10	HQAM	100	250	19.81	19.86	19.81				
10	HQAM	100	275	19.81	19.86	19.81				
10	HQAM	100	300	19.81	19.86	19.81				
10	HQAM	100	325	19.81	19.86	19.81				
10	HQAM	100	350	19.81	19.86	19.81				
10	HQAM	100	375	19.81	19.86	19.81				
10	HQAM	100	400	19.81	19.86	19.81				
10	HQAM	100	425	19.81	19.86	19.81				
10	HQAM	100	450	19.81	19.86	19.81				
10	HQAM	100	475	19.81	19.86	19.81				
10	HQAM	100	500	19.81	19.86	19.81				
10	HQAM	100	525	19.81	19.86	19.81				
10	HQAM	100	550	19.81	19.86	19.81				
10	HQAM	100	575	19.81	19.86	19.81				
10	HQAM	100	600	19.81	19.86	19.81				
10	HQAM	100	625	19.81	19.86	19.81				
10	HQAM	100	650	19.81	19.86	19.81				
10	HQAM	100	675	19.81	19.86	19.81				
10	HQAM	100	700	19.81	19.86	19.81				
10	HQAM	100	725	19.81	19.86	19.81				
10	HQAM	100	750	19.81	19.86	19.81				
10	HQAM	100	775	19.81	19.86	19.81				
10	HQAM	100	800	19.81	19.86	19.81				
10	HQAM	100	825	19.81	19.86	19.81				
10	HQAM	100	850	19.81	19.86	19.81				
10	HQAM	100	875	19.81	19.86	19.81				
10	HQAM	100	900	19.81	19.86	19.81				
10	HQAM	100	925	19.81	19.86	19.81				
10	HQAM	100	950	19.81	19.86	19.81				
10	HQAM	100	975	19.81	19.86	19.81				
10	HQAM	100	1000	19.81	19.86	19.81				
10	HQAM	100	1025	19.81	19.86	19.81				
10	HQAM	100	1050	19.81	19.86	19.81				
10	HQAM	100	1075	19.81	19.86	19.81				
10	HQAM	100	1100	19.81	19.86	19.81				
10	HQAM	100	1125	19.81	19.86	19.81				
10	HQAM	100	1150	19.81	19.86	19.81				
10	HQAM	100	1175	19.81	19.86	19.81				
10	HQAM	100	1200	19.81	19.86	19.81				
10	HQAM	100	1225	19.81	19.86	19.81				
10	HQAM	100	1250	19.81	19.86	19.81				
10	HQAM	100	1275	19.81	19.86	19.81				
10	HQAM	100	1300	19.81	19.86	19.81				
10	HQAM	100	1325	19.81	19.86	19.81				
10	HQAM	100	1350	19.81	19.86	19.81				
10	HQAM	100	1375	19.81	19.86	19.81				
10	HQAM	100	1400	19.81	19.86	19.81				
10	HQAM	100	1425	19.81	19.86	19.81</				



Band 13 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mod Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	MFR (dB)	Channel	
Frequency (MHz)										
10	QPSK	1	0	24.28	24.28	24.28			792	
10	QPSK	1	25	24.27	24.27	24.27			792	
10	QPSK	1	49	24.28	24.28	24.28	24.5	0	792	
10	QPSK	1	73	24.27	24.27	24.27			792	
10	QPSK	25	12	23.26	23.27	23.23	24.5	1	792	
10	QPSK	25	25	23.25	23.24	23.27			792	
10	QPSK	25	49	23.27	23.28	23.26			792	
10	QPSK	25	73	23.26	23.27	23.23			792	
10	QPSK	25	97	23.25	23.24	23.27			792	
10	QPSK	25	121	23.27	23.28	23.26			792	
10	QPSK	25	145	23.26	23.27	23.23			792	
10	QPSK	25	169	23.25	23.24	23.27			792	
10	QPSK	25	193	23.27	23.28	23.26			792	
10	QPSK	25	217	23.26	23.27	23.23			792	
10	QPSK	25	241	23.25	23.24	23.27			792	
10	QPSK	25	265	23.27	23.28	23.26			792	
10	QPSK	25	289	23.26	23.27	23.23			792	
10	QPSK	25	313	23.25	23.24	23.27			792	
10	QPSK	25	337	23.27	23.28	23.26			792	
10	QPSK	25	361	23.26	23.27	23.23			792	
10	QPSK	25	385	23.25	23.24	23.27			792	
10	QPSK	25	409	23.27	23.28	23.26			792	
10	QPSK	25	433	23.26	23.27	23.23			792	
10	QPSK	25	457	23.25	23.24	23.27			792	
10	QPSK	25	481	23.27	23.28	23.26			792	
10	QPSK	25	505	23.26	23.27	23.23			792	
10	QPSK	25	529	23.25	23.24	23.27			792	
10	QPSK	25	553	23.27	23.28	23.26			792	
10	QPSK	25	577	23.26	23.27	23.23			792	
10	QPSK	25	601	23.25	23.24	23.27			792	
10	QPSK	25	625	23.27	23.28	23.26			792	
10	QPSK	25	649	23.26	23.27	23.23			792	
10	QPSK	25	673	23.25	23.24	23.27			792	
10	QPSK	25	697	23.27	23.28	23.26			792	
10	QPSK	25	721	23.26	23.27	23.23			792	
10	QPSK	25	745	23.25	23.24	23.27			792	
10	QPSK	25	769	23.27	23.28	23.26			792	
10	QPSK	25	793	23.26	23.27	23.23			792	
10	QPSK	25	817	23.25	23.24	23.27			792	
10	QPSK	25	841	23.27	23.28	23.26			792	
10	QPSK	25	865	23.26	23.27	23.23			792	
10	QPSK	25	889	23.25	23.24	23.27			792	
10	QPSK	25	913	23.27	23.28	23.26			792	
10	QPSK	25	937	23.26	23.27	23.23			792	
10	QPSK	25	961	23.25	23.24	23.27			792	
10	QPSK	25	985	23.27	23.28	23.26			792	
10	QPSK	25	1009	23.26	23.27	23.23			792	
10	QPSK	25	1033	23.25	23.24	23.27			792	
10	QPSK	25	1057	23.27	23.28	23.26			792	
10	QPSK	25	1081	23.26	23.27	23.23			792	
10	QPSK	25	1105	23.25	23.24	23.27			792	
10	QPSK	25	1129	23.27	23.28	23.26			792	
10	QPSK	25	1153	23.26	23.27	23.23			792	
10	QPSK	25	1177	23.25	23.24	23.27			792	
10	QPSK	25	1201	23.27	23.28	23.26			792	
10	QPSK	25	1225	23.26	23.27	23.23			792	
10	QPSK	25	1249	23.25	23.24	23.27			792	
10	QPSK	25	1273	23.27	23.28	23.26			792	
10	QPSK	25	1297	23.26	23.27	23.23			792	
10	QPSK	25	1321	23.25	23.24	23.27			792	
10	QPSK	25	1345	23.27	23.28	23.26			792	
10	QPSK	25	1369	23.26	23.27	23.23			792	
10	QPSK	25	1393	23.25	23.24	23.27			792	
10	QPSK	25	1417	23.27	23.28	23.26			792	
10	QPSK	25	1441	23.26	23.27	23.23			792	
10	QPSK	25	1465	23.25	23.24	23.27			792	
10	QPSK	25	1489	23.27	23.28	23.26			792	
10	QPSK	25	1513	23.26	23.27	23.23			792	
10	QPSK	25	1537	23.25	23.24	23.27			792	
10	QPSK	25	1561	23.27	23.28	23.26			792	
10	QPSK	25	1585	23.26	23.27	23.23			792	
10	QPSK	25	1609	23.25	23.24	23.27			792	
10	QPSK	25	1633	23.27	23.28	23.26			792	
10	QPSK	25	1657	23.26	23.27	23.23			792	
10	QPSK	25	1681	23.25	23.24	23.27			792	
10	QPSK	25	1705	23.27	23.28	23.26			792	
10	QPSK	25	1729	23.26	23.27	23.23			792	
10	QPSK	25	1753	23.25	23.24	23.27			792	
10	QPSK	25	1777	23.27	23.28	23.26			792	
10	QPSK	25	1801	23.26	23.27	23.23			792	
10	QPSK	25	1825	23.25	23.24	23.27			792	
10	QPSK	25	1849	23.27	23.28	23.26			792	
10	QPSK	25	1873	23.26	23.27	23.23			792	
10	QPSK	25	1897	23.25	23.24	23.27			792	
10	QPSK	25	1921	23.27	23.28	23.26			792	
10	QPSK	25	1945	23.26	23.27	23.23			792	
10	QPSK	25	1969	23.25	23.24	23.27			792	
10	QPSK	25	1993	23.27	23.28	23.26			792	
10	QPSK	25	2017	23.26	23.27	23.23			792	
10	QPSK	25	2041	23.25	23.24	23.27			792	
10	QPSK	25	2065	23.27	23.28	23.26			792	
10	QPSK	25	2089	23.26	23.27	23.23			792	
10	QPSK	25	2113	23.25	23.24	23.27			792	
10	QPSK	25	2137	23.27	23.28	23.26			792	
10	QPSK	25	2161	23.26	23.27	23.23			792	
10	QPSK	25	2185	23.25	23.24	23.27			792	
10	QPSK	25	2209	23.27	23.28	23.26			792	
10	QPSK	25	2233	23.26	23.27	23.23			792	
10	QPSK	25	2257	23.25	23.24	23.27			792	
10	QPSK	25	2281	23.27	23.28	23.26			792	
10	QPSK	25	2305	23.26	23.27	23.23			792	
10	QPSK	25	2329	23.25	23.24	23.27			792	
10	QPSK	25	2353	23.27	23.28	23.26			792	
10	QPSK	25	2377	23.26	23.27	23.23			792	
10	QPSK	25	2401	23.25	23.24	23.27			792	
10	QPSK	25	2425	23.27	23.28	23.26			792	
10	QPSK	25	2449	23.26	23.27	23.23			792	
10	QPSK	25	2473	23.25	23.24	23.27			792	
10	QPSK	25	2497	23.27	23.28	23.26			792	
10	QPSK	25	2521	23.26	23.27	23.23			792	
10	QPSK	25	2545	23.25	23.24	23.27			792	
10	QPSK	25	2569	23.27	23.28	23.26			792	
10	QPSK	25	2593	23.26	23.27	23.23			792	
10	QPSK	25	2617	23.25	23.24	23.27			792	
10	QPSK	25	2641	23.27	23.28	23.26			792	
10	QPSK	25	2665	23.26	23.27	23.23			792	
10	QPSK	25	2689	23.25	23.24	23.27			792	
10	QPSK	25	2713	23.27	23.28	23.26			792	
10	QPSK	25	2737	23.26	23.27	23.23			792	
10	QPSK	25	2761	23.25	23.24	23.27			792	
10	QPSK	25	2785	23.27	23.28	23.26			792	
10	QPSK	25	2809	23.26	23.27	23.23			792	
10	QPSK	25	2833	23.25	23.24	23.27			792	
10	QPSK	25	2857	23.27	23.28	23.26			792	
10	QPSK	25	2881	23.26	23.27	23.23			792	
10	QPSK	25	2905	23.25	23.24	23.27		</		



Band 38 Ant0(only on channel required)										
BR (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up Int. (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	0	21.47	21.52	21.48				
30	QPSK	1	49	21.42	21.44	21.40	23	0		
30	QPSK	1	49	21.38	21.41	21.35				
30	QPSK	50	0	20.53	20.55	20.49				
30	QPSK	50	24	20.60	20.48	20.40	22	1		
30	QPSK	50	50	20.45	20.48	20.43				
30	QPSK	100	0	20.52	20.55	20.41				
30	HQAM	1	49	20.54	20.52	20.51				
30	HQAM	1	49	20.53	20.46	20.41	22	1		
30	HQAM	1	99	20.44	20.40	20.40				
30	HQAM	50	0	19.46	19.48	19.42				
30	HQAM	50	24	19.38	19.43	19.39	21	2		
30	HQAM	50	50	19.36	19.35	19.35				
30	HQAM	100	0	19.45	19.45	19.45				
30	HQAM	1	0	19.35	19.47	19.34				
30	HQAM	1	49	19.44	19.38	19.35	21	2		
30	HQAM	1	99	19.51	19.45	19.46				
30	HQAM	50	24	18.41	18.42	18.40				
30	HQAM	50	24	18.51	18.45	18.47	20	3		
30	HQAM	50	50	18.39	18.35	18.31				
30	HQAM	100	0	18.44	18.41	18.33				
30	HQAM	1	0	18.53	18.49	18.43				
30	ZSSBAM	1	49	18.38	18.49	18.20	18	5		
30	ZSSBAM	50	0	18.29	18.35	18.42				
30	ZSSBAM	50	0	18.46	18.38	18.51				
30	ZSSBAM	50	24	18.52	18.39	18.50				
30	ZSSBAM	50	50	18.41	18.32	18.42	18	5		
30	ZSSBAM	100	0	18.55	18.52	18.25				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.31	21.40	21.40				
15	QPSK	1	49	21.34	21.31	21.35	23	0		
15	QPSK	1	74	21.38	21.41	21.34				
15	QPSK	50	0	20.51	20.50	20.50				
15	QPSK	50	24	20.51	20.39	20.40	22	1		
15	QPSK	50	50	20.48	20.48	20.48				
15	QPSK	100	0	20.48	20.47	20.40				
15	HQAM	1	0	20.39	20.48	20.42				
15	HQAM	1	49	20.44	20.52	20.42	22	1		
15	HQAM	1	74	20.34	20.40	20.40				
15	HQAM	36	0	19.36	19.32	19.20				
15	HQAM	36	20	19.23	19.48	19.19	21	2		
15	HQAM	36	36	19.57	19.43	19.40				
15	HQAM	75	0	19.37	19.41	19.43				
15	HQAM	75	0	19.45	19.48	19.19	21	2		
15	HQAM	1	37	19.39	19.22	19.23				
15	HQAM	1	37	19.41	19.38	19.20	21	2		
15	HQAM	36	0	18.55	18.38	18.20				
15	HQAM	36	20	18.26	18.27	18.33	20	3		
15	HQAM	75	0	18.22	18.38	18.20				
15	ZSSBAM	1	37	18.35	18.50	18.20	18	5		
15	ZSSBAM	1	74	18.26	18.24	18.23				
15	ZSSBAM	36	20	18.47	18.31	18.40	18	5		
15	ZSSBAM	36	36	18.20	18.44	18.40	18	5		
15	ZSSBAM	75	0	18.27	18.53	18.27				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.30	21.34	21.30				
10	QPSK	1	25	21.32	21.37	21.31	23	0		
10	QPSK	1	49	21.32	21.31	21.35				
10	QPSK	25	0	20.38	20.47	20.40				
10	QPSK	25	12	20.40	20.33	20.47	22	1		
10	QPSK	25	12	20.43	20.43	20.43				
10	QPSK	50	0	20.33	20.51	20.39				
10	HQAM	1	26	20.41	20.43	20.40	22	1		
10	HQAM	1	49	20.26	20.25	20.45				
10	HQAM	25	0	19.45	19.49	19.31				
10	HQAM	25	12	19.24	19.37	19.25	21	2		
10	HQAM	25	25	19.55	19.46	19.46				
10	HQAM	50	0	19.34	19.40	19.30				
10	HQAM	1	0	19.22	19.33	19.32				
10	HQAM	1	26	19.27	19.30	19.37	21	2		
10	HQAM	1	49	19.42	19.38	19.38				
10	HQAM	25	0	18.36	18.40	18.40				
10	HQAM	25	12	18.30	18.40	18.42				
10	HQAM	25	25	18.30	18.32	18.32	20	3		
10	HQAM	50	0	18.43	18.27	18.28				
10	ZSSBAM	1	0	18.43	18.33	18.30				
10	ZSSBAM	1	25	18.32	18.46	18.27	18	5		
10	ZSSBAM	1	49	18.20	18.17	18.45				
10	ZSSBAM	25	0	18.30	18.55	18.49				
10	ZSSBAM	25	12	18.40	18.38	18.50	18	5		
10	ZSSBAM	25	25	18.28	18.48	18.30				
10	ZSSBAM	50	0	18.45	18.48	18.25				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.38	21.44	21.30				
5	QPSK	1	14	21.38	21.44	21.40	23	0		
5	QPSK	1	24	21.32	21.39	21.20				
5	QPSK	12	0	20.46	20.44	20.44				
5	QPSK	12	7	20.51	20.38	20.35	22	1		
5	QPSK	12	13	20.47	20.47	20.43				
5	QPSK	25	0	20.37	20.38	20.35				
5	HQAM	1	0	20.47	20.41	20.39	22	1		
5	HQAM	1	12	20.40	20.35	20.38				
5	HQAM	1	24	20.42	20.31	20.40				
5	HQAM	12	0	19.47	19.46	19.28				
5	HQAM	12	7	19.26	19.40	19.28	21	2		
5	HQAM	12	13	19.45	19.44	19.28				
5	HQAM	25	0	19.46	19.32	19.28				
5	HQAM	1	12	19.44	19.22	19.34	21	2		
5	HQAM	1	24	19.52	19.44	19.33				
5	HQAM	1	12	19.53	19.54	19.30				
5	HQAM	12	7	18.47	18.33	18.43	20	3		
5	HQAM	12	13	18.25	18.33	18.20				
5	HQAM	25	0	18.42	18.40	18.20				
5	ZSSBAM	1	0	18.43	18.45	18.27	18	5		
5	ZSSBAM	1	12	18.35	18.49	18.23				
5	ZSSBAM	1	24	18.18	18.20	18.39				
5	ZSSBAM	12	0	18.47	18.38	18.39				
5	ZSSBAM	12	7	18.45	18.25	18.47	18	5		
5	ZSSBAM	12	13	18.38	18.38	18.53				
5	ZSSBAM	25	0	18.43	18.54	18.25				

Band 41 Ant0 (2.6G Band)										
BR (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up Int. (dBm)	MFR (dB)
Channel										
Frequency (MHz)										
30	QPSK	1	0	21.66	21.67	21.77	21.75	21.68		
30	QPSK	1	49	21.72	21.71	21.76	21.60	21.62	23	0
30	QPSK	1	49	21.58	21.70	21.66	21.68	21.63		
30	QPSK	50	0	20.78	20.69	20.69	20.70	20.87		
30	QPSK	50	24	20.79	20.68	20.68	20.71	20.79	22	1
30	QPSK	50	50	20.71	20.81	20.80	20.63	20.75		
30	QPSK	100	0	20.70	20.79	20.80	20.81	20.78		
30	HQAM	1	49	20.74	19.55	19.70	19.68	19.66		
30	HQAM	1	49	20.86	20.74	20.85	20.73	20.70		
30	HQAM	1	99	20.78	20.76	20.84	20.73	20.77		
30	HQAM	50	0	19.74	19.75	19.76	19.86	19.86		
30	HQAM	50	24	19.78	19.83	19.82	19.80	19.81	21	2
30	HQAM	50	50	19.83	19.75	19.86	19.81	19.84		
30	HQAM	100	0	19.71	19.68	19.90	19.80	19.83		
30	HQAM	1	0	19.78	19.77	19.83	19.82	19.88		
30	HQAM	1	49	19.89	19.80	19.86	19.70	19.74	21	2
30	HQAM	1	99	19.86	19.84	19.85	19.84	19.78		
30	HQAM	50	24	18.52	18.57	18.75	18.65	18.62		
30	HQAM	50	24	18.55	18.71	18.74	18.59	18.72	20	3
30	HQAM	50	50	18.82	18.70	18.88	18.70	18.71		
30	HQAM	100	0	18.65	18.83	18.69	18.70	18.74		
30	HQAM	1	0	18.80	18.82	18.83	18.81	18.82	18	5
30	ZSSBAM	1	49	18.80	18.84	18.85	18.80	18.83		
30	ZSSBAM	50	0	18.59	18.65	18.76	18.65	18.71		
30	ZSSBAM	50	0	18.64	18.74	18.73	18.70	18.69		
30	ZSSBAM	50	24	18.72	18.72	18.75	18.60	18.62		
30	ZSSBAM	50	50	18.61	18.70	18.78	18.72	18.63		
30	ZSSBAM	100	0	18.68	18.69	18.75	18.58	18.55		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.47	21.49	21.70	21.66	21.49		
15	QPSK	1	49	21.52	21.54	21.67	21.53	21.60	23	0
15	QPSK	1	74	21.38	21.72	21.66	21.47	21.65		
15	QPSK	50	0	20.55	20.50	20.66	20.55	20.63		
15	QPSK	50	24	20.55	20.51	20.70	20.57	20.68	22	1
15	QPSK	50	50	20.55	20.75	20.76	20.54	20.71		
15	QPSK	100	0	20.62	20.79	2				



Band 48 FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)	
Channel				5580	5580	5650	5650			
Frequency (MHz)				3990	3990	3991	3990			
20	QPSK	1	0	21.35	21.43	21.43	21.29			
20	QPSK	1	40	21.42	21.44	21.24	21.40	23	0	
20	QPSK	1	80	21.44	21.48	21.35	21.43			
20	QPSK	50	0	20.52	20.52	20.58	20.48			
20	QPSK	50	34	20.48	20.48	20.50	20.51	22	1	
20	QPSK	50	50	20.59	20.53	20.61	20.59			
20	QPSK	100	0	20.42	20.45	20.45	20.39			
20	16QAM	1	0	20.63	20.57	20.55	20.57	22	1	
20	16QAM	1	40	20.71	20.54	20.88	20.65			
20	16QAM	1	80	20.58	20.59	20.57	20.59			
20	16QAM	50	0	19.83	19.97	19.70	19.89			
20	16QAM	50	25	19.84	19.59	19.90	19.87	21	2	
20	16QAM	50	50	19.85	19.45	19.81	19.57			
20	16QAM	100	0	19.47	19.52	19.48	19.54			
20	64QAM	1	0	19.80	19.57	19.57	19.64	21	2	
20	64QAM	1	40	19.42	19.36	19.46	19.52			
20	64QAM	1	80	19.52	19.46	19.46	19.52			
20	64QAM	50	0	18.81	18.45	18.55	18.61			
20	64QAM	50	24	18.49	18.51	18.50	18.55	20	3	
20	64QAM	50	50	18.68	18.80	18.64	18.64			
20	64QAM	100	0	18.55	18.45	18.51	18.55			
20	256QAM	1	0	18.67	18.48	18.48	18.34			
20	256QAM	1	40	18.47	18.63	18.34	18.40	18	5	
20	256QAM	1	80	18.52	18.60	18.37	18.52			
20	256QAM	50	0	18.61	18.77	18.74	18.48			
20	256QAM	50	24	18.63	18.55	18.55	18.47			
20	256QAM	50	50	18.30	18.61	18.78	18.70	18	5	
20	256QAM	100	0	18.54	18.58	18.44	18.30			
Channel				5590	5590	5650	5650			
Frequency (MHz)				3975	3980	3952	3997.5			
15	QPSK	1	0	21.01	21.40	21.42	21.24			
15	QPSK	1	37	21.31	21.33	21.12	21.37	23	0	
15	QPSK	1	74	21.31	21.35	21.29	21.40			
15	QPSK	1	111	20.48	20.45	20.41	20.41			
15	QPSK	30	0	20.45	20.40	20.43	20.39	22	1	
15	QPSK	30	30	20.48	20.40	20.49	20.41			
15	QPSK	1	0	20.37	20.36	20.31	20.28			
15	16QAM	1	0	20.52	20.54	20.50	20.47	22	1	
15	16QAM	1	37	20.46	20.43	20.43	20.43			
15	16QAM	1	74	20.52	20.43	20.52	20.52			
15	16QAM	30	0	19.55	19.55	19.64	19.65	21	2	
15	16QAM	30	20	19.68	19.51	19.47	19.57			
15	16QAM	30	30	19.37	19.41	19.43	19.43			
15	16QAM	75	0	19.35	19.45	19.40	19.40			
15	64QAM	1	0	19.49	19.51	19.48	19.52	21	2	
15	64QAM	1	37	19.38	19.29	19.41	19.33			
15	64QAM	1	74	19.47	19.42	19.36	19.42			
15	64QAM	30	0	18.55	18.55	18.55	18.50			
15	64QAM	30	20	18.38	18.47	18.35	18.20	20	3	
15	64QAM	30	30	18.52	18.47	18.53	18.41			
15	256QAM	1	0	18.55	18.45	18.45	18.25			
15	256QAM	1	37	18.35	18.47	18.27	18.43	18	5	
15	256QAM	1	74	18.52	18.52	18.17	18.56			
15	256QAM	30	0	18.50	18.63	18.64	18.35			
15	256QAM	30	20	18.58	18.54	18.42	18.48			
15	256QAM	30	30	18.67	18.51	18.71	18.50	18	5	
15	256QAM	75	0	18.49	18.43	18.24	18.35			
Channel				5590	5590	5650	5650			
Frequency (MHz)				3975	3975	3943	3977.5			
10	QPSK	1	0	21.27	21.44	21.41	21.24			
10	QPSK	1	25	21.35	21.33	21.13	21.30	23	0	
10	QPSK	1	40	21.41	21.45	21.24	21.32			
10	QPSK	20	0	20.83	20.46	20.82	20.38			
10	QPSK	25	15	20.48	20.32	20.30	20.41	22	1	
10	QPSK	25	25	20.54	20.45	20.51	20.42			
10	QPSK	50	0	20.35	20.37	20.37	20.25			
10	16QAM	1	0	20.56	20.44	20.42	20.51			
10	16QAM	1	25	20.82	20.58	20.64	20.60	22	1	
10	16QAM	1	40	20.44	20.54	20.52	20.41			
10	16QAM	20	0	19.48	19.54	19.56	19.60	21	2	
10	16QAM	20	12	19.56	19.54	19.52	19.49			
10	16QAM	20	20	19.41	19.44	19.52	19.51			
10	16QAM	50	0	19.41	19.42	19.39	19.41			
10	64QAM	1	0	19.48	19.49	19.45	19.61	21	2	
10	64QAM	1	25	19.53	19.52	19.36	19.39			
10	64QAM	1	40	19.43	19.37	19.39	19.48			
10	64QAM	25	0	18.67	18.84	18.61	18.59			
10	64QAM	25	12	18.44	18.40	18.38	18.42			
10	64QAM	25	25	18.57	18.54	18.50	18.51	20	3	
10	64QAM	50	0	18.69	18.53	18.50	18.41			
10	256QAM	1	0	18.51	18.38	18.43	18.32			
10	256QAM	1	25	18.52	18.40	18.23	18.28	18	5	
10	256QAM	1	40	18.52	18.63	18.17	18.47			
10	256QAM	20	0	18.47	18.55	18.75	18.48			
10	256QAM	25	12	18.64	18.97	18.57	18.64	18	5	
10	256QAM	25	25	18.66	18.47	18.74	18.68			
10	256QAM	50	0	18.43	18.58	18.32	18.39			
Channel				5590	5590	5650	5650			
Frequency (MHz)				3975	3975	3943	3977.5			
5	QPSK	1	0	21.22	21.38	21.41	21.15			
5	QPSK	1	12	21.32	21.39	21.11	21.28	23	0	
5	QPSK	1	24	21.37	21.35	21.22	21.30			
5	QPSK	12	0	20.65	20.39	20.45	20.25			
5	QPSK	12	7	20.42	20.43	20.38	20.43	22	1	
5	QPSK	12	13	20.54	20.49	20.51	20.50			
5	QPSK	20	0	20.62	20.34	20.34	20.34			
5	16QAM	1	0	20.80	20.46	20.48	20.47	22	1	
5	16QAM	1	12	20.64	20.50	20.64	20.52			
5	16QAM	1	24	20.53	20.46	20.46	20.49			
5	16QAM	12	0	19.51	19.54	19.60	19.59	21	2	
5	16QAM	12	7	19.61	19.55	19.45	19.50			
5	16QAM	12	13	19.40	19.45	19.38	19.52			
5	16QAM	20	0	19.38	19.44	19.39	19.45			
5	64QAM	1	0	19.48	19.46	19.53	19.48	21	2	
5	64QAM	1	12	19.31	19.30	19.39	19.33			
5	64QAM	1	24	19.47	19.23	19.36	19.43			
5	64QAM	12	0	18.54	18.50	18.50	18.50			
5	64QAM	12	7	18.35	18.48	18.39	18.50	20	3	
5	64QAM	12	13	18.52	18.55	18.55	18.53			
5	256QAM	1	0	18.45	18.42	18.44	18.43			
5	256QAM	1	12	18.57	18.48	18.40	18.13	18	5	
5	256QAM	1	12	18.09	18.60	18.33	18.46			
5	256QAM	1	24	18.41	18.50	18.35	18.57			
5	256QAM	12	0	18.69	18.73	18.69	18.58			
5	256QAM	12	7	18.51	18.43	18.51	18.52	18	5	
5	256QAM	12	13	18.63	18.51	18.63	18.49			
5	256QAM	20	0	18.41	18.55	18.38	18.31			



CDMA2000 1X Rev. E						
Channel	Power (dBm)			Power (dBm)		
TX Channel	128	144	191	128	144	191
Frequency (MHz)	24.2	24.4	24.6	24.2	24.4	24.6
CDMA 1 Tx Limit	23.75	22.75	22.75	23.50	22.50	22.50
ISPPW 1 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
ISPPW 2 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
ISPPW 3 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
ISPPW 4 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
EDGE 1 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
EDGE 2 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
EDGE 3 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00
EDGE 4 Tx Limit	23.25	22.25	22.25	23.00	22.00	22.00

WCDMA V			
Band	Power (dBm)		
TX Channel	4152	4152	4233
TX Channel	4428	4428	4488
Frequency (MHz)	24.2	24.4	24.6
ISPPW Rev B1	24.42	24.50	24.45
ISPPW Rev B2	24.42	24.50	24.45
ISPPW Rev B3	24.42	24.50	24.45
ISPPW Rev B4	24.42	24.50	24.45
ISPPW Rev B5	24.42	24.50	24.45
ISPPW Rev B6	24.42	24.50	24.45
ISPPW Rev B7	24.42	24.50	24.45
ISPPW Rev B8	24.42	24.50	24.45
ISPPW Rev B9	24.42	24.50	24.45
ISPPW Rev B10	24.42	24.50	24.45
ISPPW Rev B11	24.42	24.50	24.45
ISPPW Rev B12	24.42	24.50	24.45
ISPPW Rev B13	24.42	24.50	24.45
ISPPW Rev B14	24.42	24.50	24.45
ISPPW Rev B15	24.42	24.50	24.45
ISPPW Rev B16	24.42	24.50	24.45
ISPPW Rev B17	24.42	24.50	24.45
ISPPW Rev B18	24.42	24.50	24.45
ISPPW Rev B19	24.42	24.50	24.45
ISPPW Rev B20	24.42	24.50	24.45



CDMA1X Rev D Default

TX Channel	Power Average Power (dBm)			Tx Power Limit	Frame Average Power (dBm)			Tx Power Limit
	1	2	3		1	2	3	
Frequency (MHz)	25.74	30.08	30.20	31.00	25.74	21.08	21.20	22.00
ISPP Rev B	ISPP-1 Tx sub	29.73	30.00	30.01	31.00	20.73	21.00	21.01
ISPP Rev B	ISPP-2 Tx sub	29.58	29.71	29.80	30.00	20.58	20.71	20.80
ISPP Rev B	ISPP-3 Tx sub	24.82	25.03	25.00	26.00	20.86	20.77	20.74
ISPP Rev B	ISPP-4 Tx sub	24.78	24.89	24.88	25.00	20.78	20.89	20.88
EDGE-1 Tx sub	25.00	25.07	25.08	27.00	18.00	18.07	18.08	
EDGE-2 Tx sub	22.72	22.84	22.83	24.00	18.72	18.84	18.83	
EDGE-3 Tx sub	20.87	20.96	20.91	22.00	18.81	18.89	18.84	
EDGE-4 Tx sub	19.71	19.80	19.81	21.00	18.71	18.80	18.81	

WCDMA II Rev D Default

Band	WCDMA II			Tx Power Limit	WCDMA IV			Tx Power Limit
	1	2	3		1	2	3	
TX Channel	30.52	30.00	30.00	31.00	13.12	14.10	13.10	
TX Channel	30.52	30.00	30.00	31.00	13.12	14.10	13.10	
Frequency (MHz)	192.2	191.8	191.8	191.8	172.4	172.0	172.0	
ISPP Rev B	RNC 12, 20, 24	24.40	24.41	24.50	24.40	24.43	24.40	
ISPP Rev B	RNC 12, 20, 24	24.40	24.41	24.43	24.50	24.50	24.40	
ISPP Rev B	HSRPA Subband-1	23.26	23.20	23.20	24.00	23.21	23.20	
ISPP Rev B	HSRPA Subband-2	23.25	23.20	23.28	24.00	23.42	23.40	
ISPP Rev B	HSRPA Subband-3	22.44	22.37	22.36	24.00	22.05	22.00	
ISPP Rev B	HSRPA Subband-4	22.85	22.88	22.82	24.00	23.02	23.01	
ISPP Rev B	DC-HSRPA Subband-1	23.37	23.30	23.31	24.00	23.33	23.30	
ISPP Rev B	DC-HSRPA Subband-2	23.25	23.27	23.41	24.00	23.23	23.25	
ISPP Rev B	DC-HSRPA Subband-3	22.81	22.75	22.81	24.00	22.75	22.87	
ISPP Rev B	DC-HSRPA Subband-4	22.62	22.67	22.78	24.00	22.66	22.74	
ISPP Rev B	HSRPA Subband-1	22.08	22.01	22.09	24.00	23.18	23.09	
ISPP Rev B	HSRPA Subband-2	23.00	23.00	23.00	25.00	23.14	23.00	
ISPP Rev B	HSRPA Subband-3	21.88	21.95	21.83	23.00	22.88	22.18	
ISPP Rev B	HSRPA Subband-4	21.20	21.28	21.21	23.00	21.17	21.08	
ISPP Rev B	HSRPA Subband-5	22.00	22.00	22.06	24.00	23.08	23.21	



CDMA1X Rev. 1.2

TX Channel	Power (dBm)			Tx Power Limit	Power (dBm)			Tx Power Limit
	Max	Avg	Min		Max	Avg	Min	
Frequency (MHz)	21.92	23.94	25.93	30.00	19.81	19.94	19.73	21.00
ISPP Rev B	28.78	28.80	28.82	30.00	19.76	19.80	19.82	21.00
ISPP Rev B	23.45	23.41	23.35	25.00	19.65	19.69	19.38	21.00
ISPP Rev B	23.84	23.82	23.58	25.00	19.58	19.38	19.32	20.74
EDGE-1 Tx aux	24.33	24.33	24.17	25.00	19.38	19.32	19.38	21.00
EDGE-2 Tx aux	21.89	21.72	21.83	23.00	19.69	19.72	19.83	17.00
EDGE-3 Tx aux	19.95	19.80	19.85	21.00	19.84	19.74	19.82	19.74
EDGE-4 Tx aux	18.60	18.48	18.30	20.00	18.80	18.68	18.80	17.00

WCDMA Rev. 3.2

Band	WCDMA Rev. 3.2			Tx Power Limit	WCDMA Rev. 3.2			Tx Power Limit
	Max	Avg	Min		Max	Avg	Min	
Frequency (MHz)	21.92	23.94	25.93	30.00	17.74	17.74	17.74	24.50
ISPP Rev B	23.43	23.41	23.41	24.50	23.39	23.34	23.50	24.50
ISPP Rev B	22.47	22.43	22.30	23.50	22.48	22.52	22.28	23.50
ISPP Rev B	22.49	22.48	22.41	23.50	22.34	22.32	22.54	23.50
ISPP Rev B	21.36	21.65	21.81	23.00	21.88	22.03	21.81	23.00
ISPP Rev B	22.45	22.46	22.43	23.50	22.36	22.50	22.51	23.50
ISPP Rev B	22.65	22.61	22.44	23.50	22.47	22.55	22.54	23.50
ISPP Rev B	21.36	21.86	21.36	23.00	21.94	22.00	21.89	23.00
ISPP Rev B	21.94	21.81	21.88	23.00	21.82	22.03	21.87	23.00
ISPP Rev B	22.49	22.45	22.48	23.50	22.38	22.50	22.50	23.50
ISPP Rev B	23.43	23.43	23.42	23.50	22.38	22.50	22.28	23.50
ISPP Rev B	21.43	21.42	21.37	22.50	21.36	21.54	21.58	22.50
ISPP Rev B	22.48	22.47	22.46	23.50	22.36	22.50	22.47	23.50
ISPP Rev B	22.49	22.50	22.44	23.50	22.34	22.50	22.44	23.50



Reduced power level for WWAN Main PA

Cellset	Band Average Power (dBm)			Time-avg. Limit	Frame-average Power (dBm)			Time-avg. Limit
	19B	19B	20T		19B	19B	20T	
Frequency BPCU	32.2	30.4	30.9	32.5	30.4	30.9	32.5	
EDGE 1 Tx ant	22.19	22.10	22.08	23.50	23.19	23.10	23.08	
EDGE 2 Tx ant	22.20	22.20	22.20	23.50	23.20	23.20	23.20	
EDGE 3 Tx ant	22.13	22.07	22.00	23.50	23.13	23.07	23.00	
EDGE 4 Tx ant	22.02	21.74	21.50	23.50	22.92	22.74	22.50	
EDGE 1 Tx ant	22.32	22.17	22.12	23.50	23.32	23.17	23.12	
EDGE 2 Tx ant	22.30	22.12	22.01	23.50	23.30	23.12	23.01	
EDGE 3 Tx ant	21.57	21.12	21.04	23.50	21.57	21.46	21.39	
EDGE 4 Tx ant	20.20	20.21	20.19	23.50	21.03	21.04	21.00	

WCDMA V4-R4-0B1 Default

Band	WCDMA V4-R4-0B1			Time-avg. Limit
	4130	4130	4233	
TX Channel	4237	4401	4458	
Frequency BPCU	32.4	30.4	30.9	
SCPP Ref B1	24.34	24.43	24.25	25.50
SCPP Ref B2	24.26	24.43	24.27	25.50
SCPP Ref B3	23.32	23.50	23.41	24.50
SCPP Ref B4	23.36	23.41	23.37	24.50
SCPP Ref B5	22.82	22.94	22.79	24.00
SCPP Ref B6	22.88	22.81	22.81	24.00
SCPP Ref B7	21.43	21.44	21.36	23.50
SCPP Ref B8	21.40	21.43	21.33	24.00
SCPP Ref B9	22.90	22.92	22.80	24.50
SCPP Ref B10	22.75	22.86	22.87	24.00
SCPP Ref B11	23.30	23.40	23.30	24.50
SCPP Ref B12	21.42	21.40	21.35	23.50
SCPP Ref B13	21.22	21.25	21.20	23.50
SCPP Ref B14	21.47	21.54	21.23	22.50
SCPP Ref B15	23.32	23.42	23.25	24.50



Band 38 Ant0 DSI1(only on channel required)

BR (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up time (min)	MFR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	0	21.47	21.52	21.48		
30	QPSK	1	49	21.42	21.44	21.40	23	0
30	QPSK	1	98	21.38	21.41	21.35		
30	QPSK	50	0	20.53	20.55	20.49		
30	QPSK	50	24	20.49	20.48	20.43	22	1
30	QPSK	50	50	20.45	20.48	20.40		
30	QPSK	100	0	20.52	20.55	20.41		
30	HQAM	1	0	20.56	20.55	20.50		
30	HQAM	1	49	20.53	20.46	20.51	22	1
30	HQAM	1	99	20.44	20.40	20.44		
30	HQAM	50	0	19.46	19.48	19.39		
30	HQAM	50	24	19.38	19.43	19.49	21	2
30	HQAM	50	50	19.36	19.50	19.35		
30	HQAM	100	0	19.45	19.45	19.45		
30	HQAM	1	0	19.35	19.47	19.34		
30	HQAM	1	49	19.44	19.38	19.35	21	2
30	HQAM	1	99	19.51	19.45	19.46		
30	HQAM	50	24	18.51	18.45	18.47	20	3
30	HQAM	50	50	18.59	18.35	18.31		
30	HQAM	100	0	18.44	18.41	18.33		
30	ZSSVM	1	0	18.53	18.49	18.43		
30	ZSSVM	1	49	18.38	18.49	18.20	18	5
30	ZSSVM	1	99	18.29	18.55	18.42		
30	ZSSVM	50	0	18.46	18.38	18.51		
30	ZSSVM	50	24	18.52	18.39	18.29	18	5
30	ZSSVM	50	50	18.41	18.32	18.41		
30	ZSSVM	100	0	18.55	18.52	18.25		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.31	21.40	21.40		
15	QPSK	1	49	21.34	21.31	21.35	23	0
15	QPSK	1	98	21.38	21.41	21.34		
15	QPSK	50	0	20.51	20.50	20.50		
15	QPSK	50	24	20.48	20.48	20.40	22	1
15	QPSK	50	50	20.45	20.48	20.42		
15	HQAM	1	0	20.48	20.52	20.47		
15	HQAM	1	49	20.54	20.49	20.52	22	1
15	HQAM	1	98	20.34	20.40	20.40		
15	HQAM	50	0	19.38	19.32	19.20		
15	HQAM	50	24	19.23	19.48	19.19	21	2
15	HQAM	50	50	19.27	19.43	19.40		
15	HQAM	100	0	19.37	19.41	19.43		
15	HQAM	1	0	19.24	19.32	19.29		
15	HQAM	1	49	19.39	19.22	19.23	21	2
15	HQAM	1	98	19.45	19.35	19.29		
15	HQAM	50	24	18.55	18.38	18.29	20	3
15	HQAM	50	50	18.52	18.38	18.33		
15	HQAM	100	0	18.30	18.30	18.20		
15	ZSSVM	1	0	18.35	18.50	18.20		
15	ZSSVM	1	49	18.24	18.24	18.24	18	5
15	ZSSVM	1	98	18.28	18.38	18.30		
15	ZSSVM	50	0	18.47	18.31	18.40		
15	ZSSVM	50	24	18.20	18.44	18.47	18	5
15	ZSSVM	50	50	18.17	18.53	18.27		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.30	21.34	21.32		
10	QPSK	1	25	21.32	21.37	21.31	23	0
10	QPSK	1	50	21.35	21.41	21.35		
10	QPSK	25	0	20.38	20.47	20.40		
10	QPSK	25	12	20.40	20.43	20.47	22	1
10	QPSK	25	25	20.43	20.43	20.43		
10	QPSK	50	0	20.53	20.51	20.50		
10	HQAM	1	0	20.52	20.52	20.52		
10	HQAM	1	25	20.41	20.43	20.40	22	1
10	HQAM	1	49	20.28	20.25	20.45		
10	HQAM	25	0	19.45	19.40	19.31		
10	HQAM	25	12	19.24	19.37	19.25	21	2
10	HQAM	25	25	19.50	19.46	19.46		
10	HQAM	50	0	19.34	19.40	19.30		
10	HQAM	1	0	19.22	19.33	19.32		
10	HQAM	1	25	19.27	19.28	19.27	21	2
10	HQAM	1	49	19.42	19.38	19.38		
10	HQAM	25	0	18.36	18.40	18.40		
10	HQAM	25	12	18.39	18.40	18.42	20	3
10	HQAM	25	25	18.30	18.32	18.32		
10	HQAM	50	0	18.43	18.27	18.28		
10	HQAM	1	0	18.43	18.33	18.30		
10	ZSSVM	1	0	18.32	18.46	18.27		
10	ZSSVM	1	25	18.20	18.35	18.28	18	5
10	ZSSVM	1	49	18.20	18.17	18.45		
10	ZSSVM	25	0	18.30	18.55	18.49		
10	ZSSVM	25	12	18.49	18.38	18.50	18	5
10	ZSSVM	25	25	18.28	18.48	18.38		
10	ZSSVM	50	0	18.45	18.48	18.25		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.38	21.44	21.30		
5	QPSK	1	14	21.38	21.44	21.40	23	0
5	QPSK	1	24	21.32	21.39	21.20		
5	QPSK	12	0	20.46	20.44	20.44		
5	QPSK	12	7	20.51	20.38	20.43	22	1
5	QPSK	12	13	20.47	20.47	20.43		
5	QPSK	25	0	20.37	20.38	20.35		
5	HQAM	1	0	20.47	20.41	20.39		
5	HQAM	1	12	20.40	20.35	20.38	22	1
5	HQAM	1	24	20.42	20.31	20.40		
5	HQAM	12	0	19.47	19.46	19.28		
5	HQAM	12	7	19.28	19.40	19.28	21	2
5	HQAM	12	13	19.45	19.44	19.28		
5	HQAM	25	0	19.46	19.32	19.28		
5	HQAM	1	0	19.29	19.34	19.27	21	2
5	HQAM	1	12	19.44	19.22	19.34		
5	HQAM	1	24	19.52	19.44	19.33		
5	HQAM	12	7	18.53	18.54	18.38	20	3
5	HQAM	12	7	18.47	18.33	18.43		
5	HQAM	12	13	18.28	18.33	18.20		
5	HQAM	25	0	18.42	18.20	18.20		
5	ZSSVM	1	0	18.43	18.45	18.27		
5	ZSSVM	1	12	18.35	18.49	18.23	18	5
5	ZSSVM	1	24	18.18	18.20	18.39		
5	ZSSVM	12	0	18.47	18.38	18.29		
5	ZSSVM	12	7	18.45	18.25	18.41	18	5
5	ZSSVM	12	13	18.38	18.38	18.53		
5	ZSSVM	25	0	18.43	18.34	18.23		

Band 41 Ant0 DSI1 (2.6G Band)

BR (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-up time (min)	MFR (dB)
Channel										
Frequency (MHz)										
30	QPSK	1	0	21.66	21.67	21.77	21.75	21.68		
30	QPSK	1	49	21.72	21.71	21.76	21.69	21.62	23	0
30	QPSK	1	98	21.58	21.70	21.66	21.68	21.63		
30	QPSK	50	0	20.78	20.69	20.80	20.70	20.87		
30	QPSK	50	24	20.79	20.68	20.80	20.71	20.79	22	1
30	QPSK	50	50	20.71	20.81	20.80	20.63	20.75		
30	HQAM	1	0	20.70	20.79	20.80	20.81	20.78		
30	HQAM	1	49	20.74	20.75	20.79	20.82	20.80	23	0
30	HQAM	1	99	20.78	20.76	20.84	20.73	20.77		
30	HQAM	50	0	19.74	19.75	19.79	19.68	19.68		
30	HQAM	50	24	19.78	19.83	19.82	19.80	19.81	21	2
30	HQAM	50	50	19.83	19.75	19.86	19.81	19.84		
30	HQAM	100	0	19.71	19.68	19.80	19.80	19.83		
30	HQAM	1	0	19.78	19.77	19.83	19.82	19.88		
30	HQAM	1	49	19.89	19.80	19.86	19.70	19.74	21	2
30	HQAM	1	99	19.86	19.84	19.85	19.84	19.78		
30	HQAM	50	24	18.50	18.57	18.72	18.50	18.52	20	3
30	HQAM	50	50	18.82	18.70	18.88	18.70	18.71		
30	HQAM	100	0	18.65	18.83	18.69	18.70	18.74		
30	ZSSVM	1	0	18.80	18.62	18.82	18.81	18.82		
30	ZSSVM	1	49	18.80	18.64	18.85	18.80	18.83	18	5
30	ZSSVM	1	99	18.59	18.65	18.76	18.65	18.71		
30	ZSSVM	50	0	18.64	18.74	18.73	18.70	18.60		
30	ZSSVM	50	24	18.72	18.72	18.75	18.60	18.62	18	5
30	ZSSVM	50	50	18.61	18.70	18.78	18.72	18.63		
30	ZSSVM	100	0	18.68	18.69	18.75	18.58	18.55		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.47	21.49	21.70	21.68	21.49		
15	QPSK	1	49	21.52	21.54	21.60	21.53	21.46	23	0
15	QPSK	1	98	21.38	21.72	21.68	21.47	21.65		
15	QPSK	50	0	20.55	20.50	20.60	20.50	20.68		
15	QPSK	50	24	20.55	20.51	20.70	20.57	20.68	22	1
15	QPSK	50	50	20.55	20.75	20.76	20.54	20.71		
15	HQAM	1	0	20.68	20.79	20.81	20.80	20.72		
15	HQAM	1	49	20.74	20.64	20.78	20.75	20.78	22	1
15	HQAM	1	98	20.64	20.58	20.73	20.65	20.78		
15	HQAM	50	0	19.70	19.81	19.80	19.50	19.54		
15	HQAM	50	24	19.71	19.87	19.78	19.65	19.69	21	2
15	HQAM	50	50	19.81	19.84	19.82	19.50	19.75		
15	HQAM	100	0	19.51	19.63	19.67	19.73	19.74		
15	HQAM	1	0	19.58	19.67	19.76	19.65	19.69		
15	HQAM	1	49	19.65	19.71	19.82	19.52	19.74	21	2
15	HQAM	1	98	19.59	19.59	19.54	19.53	19.51		
15	HQAM	50	24	18.48	18.51	1				



Band 48 Ant0 DSH_FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Med Ch. / Freq	Power High Med Ch. / Freq	Power High Ch. / Freq	Tune-up Int. (days)	MFR (dB)	
Channel				5580	5580	5650	5680			
Frequency (MHz)				3900	3900	3911	3900			
20	QPSK	1	0	21.35	21.40	21.45	21.29			
20	QPSK	1	40	21.42	21.44	21.24	21.40	23	0	
20	QPSK	1	80	21.44	21.48	21.35	21.43			
20	QPSK	50	0	20.52	20.52	20.58	20.48			
20	QPSK	50	34	20.48	20.48	20.50	20.41	22	1	
20	QPSK	50	50	20.59	20.53	20.61	20.50			
20	QPSK	100	0	20.42	20.45	20.45	20.39			
20	16QAM	1	0	20.63	20.57	20.55	20.57	22	1	
20	16QAM	1	40	20.71	20.54	20.88	20.65			
20	16QAM	75	0	20.58	20.59	20.57	20.50			
20	16QAM	75	40	19.63	19.67	19.70	19.60			
20	16QAM	50	25	19.84	19.59	19.60	19.67	21	2	
20	16QAM	50	50	19.85	19.45	19.45	19.57			
20	16QAM	100	0	19.47	19.52	19.48	19.54			
20	64QAM	1	0	19.80	19.57	19.57	19.64	21	2	
20	64QAM	1	40	19.42	19.36	19.46	19.52			
20	64QAM	1	80	19.52	19.46	19.46	19.52			
20	64QAM	50	0	18.61	18.45	18.45	18.64			
20	64QAM	50	34	18.49	18.51	18.50	18.55	20	3	
20	64QAM	50	50	18.68	18.60	18.64	18.64			
20	64QAM	100	0	18.55	18.45	18.51	18.55			
20	256QAM	1	0	16.67	16.48	16.46	16.34			
20	256QAM	1	40	16.47	16.63	16.34	16.40	18	5	
20	256QAM	99	0	16.52	16.50	16.37	16.62			
20	256QAM	50	0	16.61	16.77	16.74	16.48			
20	256QAM	50	34	16.63	16.55	16.55	16.47			
20	256QAM	50	50	16.30	16.61	16.78	16.70	18	5	
20	256QAM	100	0	16.54	16.58	16.44	16.30			
Channel				5591	5591	5660	5690			
Frequency (MHz)				3927.5	3900	3952	3927.5			
15	QPSK	1	0	21.01	21.40	21.42	21.24			
15	QPSK	1	37	21.31	21.33	21.12	21.37	23	0	
15	QPSK	1	74	21.31	21.35	21.29	21.40			
15	QPSK	1	0	20.48	20.45	20.41	20.41			
15	QPSK	30	20	20.45	20.40	20.43	20.39	22	1	
15	QPSK	30	30	20.48	20.40	20.49	20.41			
15	QPSK	1	0	20.37	20.36	20.31	20.28			
15	16QAM	1	0	20.52	20.54	20.50	20.47	22	1	
15	16QAM	1	37	20.46	20.43	20.43	20.43			
15	16QAM	1	74	20.52	20.43	20.52	20.52			
15	16QAM	30	0	19.55	19.55	19.64	19.65			
15	16QAM	30	20	19.58	19.51	19.47	19.57	21	2	
15	16QAM	30	30	19.37	19.41	19.43	19.43			
15	16QAM	75	0	19.35	19.45	19.40	19.40			
15	64QAM	1	0	19.49	19.51	19.48	19.50			
15	64QAM	1	37	19.38	19.29	19.41	19.33	21	2	
15	64QAM	1	74	19.47	19.42	19.36	19.45			
15	64QAM	30	0	18.55	18.55	18.55	18.50			
15	64QAM	30	20	18.36	18.47	18.35	18.20	20	3	
15	64QAM	30	30	18.52	18.47	18.53	18.41			
15	256QAM	1	0	16.56	16.45	16.45	16.25			
15	256QAM	1	37	16.35	16.47	16.27	16.43	18	5	
15	256QAM	1	74	16.52	16.52	16.17	16.56			
15	256QAM	30	0	16.50	16.63	16.64	16.35			
15	256QAM	30	20	16.68	16.54	16.42	16.48			
15	256QAM	30	30	16.67	16.51	16.71	16.50	18	5	
15	256QAM	75	0	16.49	16.43	16.24	16.35			
Channel				5596	5593	5665	5696			
Frequency (MHz)				3952.5	3900	3952	3927.5			
10	QPSK	1	0	21.27	21.44	21.41	21.24			
10	QPSK	1	25	21.35	21.33	21.13	21.30	23	0	
10	QPSK	1	40	21.41	21.45	21.24	21.32			
10	QPSK	20	0	20.63	20.46	20.52	20.38			
10	QPSK	25	15	20.48	20.32	20.30	20.41	22	1	
10	QPSK	25	25	20.54	20.45	20.51	20.42			
10	QPSK	50	0	20.35	20.37	20.37	20.25			
10	16QAM	1	0	20.56	20.44	20.42	20.41			
10	16QAM	1	25	20.62	20.58	20.64	20.60	22	1	
10	16QAM	1	40	20.44	20.54	20.52	20.41			
10	16QAM	20	0	19.48	19.54	19.56	19.60			
10	16QAM	20	12	19.56	19.54	19.52	19.49	21	2	
10	16QAM	20	20	19.41	19.44	19.52	19.51			
10	16QAM	50	0	19.41	19.42	19.39	19.41			
10	64QAM	1	0	19.48	19.49	19.45	19.61			
10	64QAM	1	25	19.53	19.52	19.36	19.30	21	2	
10	64QAM	1	40	19.43	19.37	19.39	19.48			
10	64QAM	25	0	18.67	18.64	18.61	18.50			
10	64QAM	25	12	18.44	18.40	18.38	18.42			
10	64QAM	25	25	18.57	18.54	18.50	18.51	20	3	
10	64QAM	50	0	18.60	18.53	18.50	18.41			
10	256QAM	1	0	16.51	16.38	16.43	16.32			
10	256QAM	1	25	16.52	16.40	16.23	16.28	18	5	
10	256QAM	1	40	16.52	16.63	16.17	16.47			
10	256QAM	20	0	16.47	16.55	16.75	16.48			
10	256QAM	25	12	16.64	16.57	16.57	16.64	18	5	
10	256QAM	25	25	16.66	16.47	16.74	16.66			
10	256QAM	50	0	16.43	16.58	16.32	16.39			
Channel				5597.5	5600	5670	5700			
Frequency (MHz)				3952.5	3900	3952	3927.5			
5	QPSK	1	0	21.22	21.38	21.41	21.15			
5	QPSK	1	12	21.32	21.39	21.11	21.28	23	0	
5	QPSK	1	24	21.37	21.35	21.22	21.30			
5	QPSK	12	0	20.65	20.39	20.45	20.29			
5	QPSK	12	7	20.42	20.43	20.38	20.43	22	1	
5	QPSK	12	13	20.54	20.49	20.51	20.50			
5	QPSK	20	0	20.62	20.34	20.34	20.34			
5	16QAM	1	0	20.60	20.46	20.48	20.47	22	1	
5	16QAM	1	12	20.64	20.50	20.64	20.52			
5	16QAM	1	24	20.53	20.46	20.46	20.49			
5	16QAM	12	0	19.51	19.54	19.60	19.50			
5	16QAM	12	7	19.61	19.55	19.45	19.60	21	2	
5	16QAM	12	13	19.40	19.45	19.38	19.52			
5	16QAM	20	0	19.38	19.44	19.39	19.45			
5	64QAM	1	0	19.48	19.46	19.53	19.66			
5	64QAM	1	12	19.31	19.30	19.39	19.33	21	2	
5	64QAM	1	24	19.47	19.23	19.36	19.43			
5	64QAM	12	0	18.54	18.50	18.50	18.50			
5	64QAM	12	7	18.35	18.48	18.39	18.60	20	3	
5	64QAM	12	13	18.52	18.50	18.50	18.53			
5	256QAM	1	0	16.45	16.42	16.44	16.43			
5	256QAM	1	12	16.57	16.48	16.40	16.13	18	5	
5	256QAM	1	12	16.09	16.60	16.33	16.46			
5	256QAM	1	24	16.41	16.50	16.35	16.57			
5	256QAM	12	0	16.60	16.73	16.60	16.60			
5	256QAM	12	7	16.51	16.43	16.51	16.52	18	5	
5	256QAM	12	13	16.63	16.51	16.63	16.49			
5	256QAM	20	0	16.41	16.55	16.38	16.31			



GERMIO Airt OS1

Channel	Power Average Power (dBm)			Tx Power Limit	Frame Average Power (dBm)			Tx Power Limit
	100	100	95		100	100	95	
TV Channel	128	118	113	128	148	138	133	148
Frequency (MHz)	21.4	31.14	31.18	32.00	21.24	21.24	21.24	23.00
CDMA Tx rate	21.24	30.56	30.76	32.00	21.04	21.04	21.24	23.00
ISPPM Sub B1	20.54	30.81	30.33	32.00	21.04	21.81	21.80	23.00
ISPPM Sub B2	21.08	27.04	27.87	32.00	21.08	21.84	21.87	23.00
ISPPM Sub B3	20.33	28.00	28.97	32.00	22.07	21.24	21.81	22.74
EDGE-1 Tx rate	20.48	24.00	24.80	25.00	21.80	17.00	17.80	20.00
EDGE-1 Tx rate	20.72	26.00	26.54	26.50	17.72	17.00	17.54	19.00
EDGE-2 Tx rate	23.80	24.00	23.71	25.00	17.00	18.00	17.71	19.00
EDGE-3 Tx rate	22.33	22.31	22.02	23.00	19.07	19.00	19.70	19.74
EDGE-4 Tx rate	20.86	21.04	20.76	22.00	17.98	18.04	17.76	19.00

WCDMA V Airt OS1

Band	WCDMA V			Tx Power Limit
	41.52	41.52	42.53	
TV Channel	41.52	44.67	44.69	45.00
Frequency (MHz)	20.94	31.14	31.18	32.00
ISPPM Sub B1	20.52	29.52	29.44	31.50
ISPPM Sub B1	20.48	29.71	29.48	31.50
ISPPM Sub B1	19.54	19.39	19.70	20.00
ISPPM Sub B1	19.85	19.39	19.85	20.00
ISPPM Sub B1	19.85	19.43	19.45	20.00
ISPPM Sub B1	19.73	19.55	19.88	20.00
ISPPM Sub B1	19.75	19.80	19.85	20.00
ISPPM Sub B1	19.23	19.04	19.14	20.00
ISPPM Sub B1	19.31	19.39	19.02	20.00
ISPPM Sub B1	19.79	19.74	19.38	20.00
ISPPM Sub B1	19.63	17.00	17.80	19.00
ISPPM Sub B1	19.82	19.85	19.82	19.50
ISPPM Sub B1	17.28	17.87	17.42	18.50
ISPPM Sub B1	19.87	19.58	19.70	20.50



Band 5 Ant1 DSI1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.78	18.87	18.96				
10	QPSK	1	35	18.95	19.04	19.13	20.5	0		
10	QPSK	1	40	19.00	19.20	19.38				
10	QPSK	6	0	18.78	18.87	18.96				
10	QPSK	6	12	18.85	19.09	19.36	20.5	0		
10	QPSK	6	25	18.88	19.20	19.52				
10	QPSK	6	38	18.92	19.29	19.68				
10	HQAM	1	0	18.73	18.87	18.97				
10	HQAM	1	25	18.90	19.17	19.76	20.5	0		
10	HQAM	1	40	19.00	19.21	19.58				
10	HQAM	6	0	18.73	18.87	18.97				
10	HQAM	6	12	18.85	19.09	19.36	20.5	0		
10	HQAM	6	25	18.88	19.20	19.52				
10	HQAM	6	38	18.92	19.29	19.68				
10	HQAM	1	0	18.73	18.84	18.95				
10	HQAM	1	25	18.90	19.22	19.70	20.5	0		
10	HQAM	1	40	18.92	18.87	18.92				
10	HQAM	6	0	18.78	18.84	18.75				
10	HQAM	6	12	19.04	18.14	18.17	20.5	0		
10	HQAM	6	25	18.80	19.01	18.73				
10	HQAM	6	38	18.90	19.09	18.79				
10	ZSSBAM	1	0	18.90	19.08	19.10				
10	ZSSBAM	1	25	18.98	18.95	18.92	20.5	0		
10	ZSSBAM	1	40	18.95	18.97	18.95				
10	ZSSBAM	6	0	19.16	19.07	19.14				
10	ZSSBAM	6	12	18.97	18.91	18.94	20.5	0		
10	ZSSBAM	6	25	18.81	18.90	18.94				
10	ZSSBAM	6	38	18.95	18.98	18.77				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.08	18.17	18.97				
5	QPSK	1	12	18.14	18.22	18.74	20.5	0		
5	QPSK	1	24	18.95	19.17	18.84				
5	QPSK	12	0	18.87	18.89	18.87				
5	QPSK	12	7	18.78	18.81	18.81	20.5	0		
5	QPSK	12	13	18.83	18.89	18.72				
5	QPSK	25	0	18.91	19.07	19.07				
5	HQAM	1	0	18.87	18.87	18.87				
5	HQAM	1	12	18.95	19.03	18.73	20.5	0		
5	HQAM	1	19	18.94	18.97	18.97				
5	HQAM	12	0	18.94	18.84	18.87				
5	HQAM	12	7	18.88	19.14	18.79	20.5	0		
5	HQAM	12	13	18.92	18.97	18.97				
5	HQAM	25	0	18.95	18.78	18.85				
5	HQAM	1	0	18.82	19.01	18.78				
5	HQAM	1	12	19.01	19.08	18.83	20.5	0		
5	HQAM	12	0	18.74	18.83	18.87				
5	HQAM	12	7	18.87	18.89	18.85				
5	HQAM	12	13	18.85	18.84	18.81	20.5	0		
5	HQAM	25	0	18.92	19.03	18.99				
5	ZSSBAM	1	0	18.97	18.95	18.95				
5	ZSSBAM	1	12	18.89	19.15	18.93	20.5	0		
5	ZSSBAM	1	24	18.94	18.94	18.94				
5	ZSSBAM	12	0	19.13	19.09	18.99				
5	ZSSBAM	12	7	18.91	18.90	18.80	20.5	0		
5	ZSSBAM	12	13	18.95	18.95	18.95				
5	ZSSBAM	25	0	18.91	18.88	18.88				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.96	19.15	19.07				
3	QPSK	1	8	18.74	18.94	18.83	20.5	0		
3	QPSK	1	14	18.82	18.93	18.97				
3	QPSK	8	0	18.86	18.84	18.83				
3	QPSK	8	4	18.82	18.85	18.74	20.5	0		
3	QPSK	15	0	18.74	18.84	18.81				
3	QPSK	16	0	18.80	19.10	19.00				
3	HQAM	1	0	18.92	18.99	18.84				
3	HQAM	1	13	18.90	18.91	18.87	20.5	0		
3	HQAM	1	14	18.85	18.91	18.90				
3	HQAM	8	0	18.81	18.85	18.75				
3	HQAM	8	4	18.79	19.01	18.90	20.5	0		
3	HQAM	8	7	19.05	18.87	18.91				
3	HQAM	15	0	18.88	18.71	18.72				
3	HQAM	1	0	18.85	19.18	18.81				
3	HQAM	1	8	18.91	19.01	19.03	20.5	0		
3	HQAM	1	14	18.72	18.88	18.80				
3	HQAM	8	0	18.73	19.04	18.89				
3	HQAM	8	4	18.90	19.06	18.81	20.5	0		
3	HQAM	8	7	18.95	18.91	19.01				
3	HQAM	16	0	18.92	18.91	18.77				
3	ZSSBAM	1	0	18.78	18.95	18.86				
3	ZSSBAM	1	8	18.54	18.59	18.93	20.5	0		
3	ZSSBAM	1	14	18.84	18.88	18.88				
3	ZSSBAM	8	0	19.08	19.08	19.00				
3	ZSSBAM	8	4	18.91	18.90	19.02	20.5	0		
3	ZSSBAM	8	7	18.72	18.80	18.75				
3	ZSSBAM	16	0	18.87	19.07	18.88				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.93	19.05	19.14				
1.4	QPSK	1	3	18.88	18.87	18.94	20.5	0		
1.4	QPSK	1	5	18.85	19.10	18.75				
1.4	QPSK	6	0	18.85	18.91	19.04				
1.4	QPSK	3	1	18.85	18.86	18.77				
1.4	QPSK	3	3	18.80	18.90	18.81	20.5	0		
1.4	QPSK	6	0	18.90	19.05	19.07				
1.4	HQAM	1	0	18.74	18.93	18.93				
1.4	HQAM	3	1	18.98	18.90	18.83	20.5	0		
1.4	HQAM	1	5	19.03	19.03	18.90				
1.4	HQAM	3	0	18.88	18.91	18.87				
1.4	HQAM	3	3	18.88	19.08	19.14	20.5	0		
1.4	HQAM	6	0	18.82	18.78	18.94				
1.4	HQAM	1	0	18.85	18.88	18.72				
1.4	HQAM	1	3	18.98	18.17	18.89	20.5	0		
1.4	HQAM	1	6	19.05	18.96	18.92				
1.4	HQAM	6	0	18.97	18.97	18.79				
1.4	HQAM	3	1	18.97	19.11	19.05				
1.4	HQAM	6	3	18.93	18.96	18.86	20.5	0		
1.4	HQAM	6	5	18.95	18.95	18.95				
1.4	ZSSBAM	1	0	18.72	19.08	18.74				
1.4	ZSSBAM	1	3	18.95	19.01	18.76	20.5	0		
1.4	ZSSBAM	1	5	18.85	18.90	18.85				
1.4	ZSSBAM	3	0	18.96	18.98	19.08				
1.4	ZSSBAM	3	1	18.98	19.04	18.84	20.5	0		
1.4	ZSSBAM	3	3	18.77	18.69	18.74				
1.4	ZSSBAM	6	0	18.88	19.04	18.70	20.5	0		

Band 12 Ant1 DSI1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.19	21.20	21.20				
10	QPSK	1	25	21.10	21.20	21.20	22.5	0		
10	QPSK	1	49	21.30	21.01	21.20				
10	QPSK	6	0	21.15	21.15	21.15				
10	QPSK	6	12	20.93	21.24	20.96	22.5	0		
10	QPSK	6	25	21.10	20.90	21.20				
10	QPSK	6	38	21.11	20.85	21.09				
10	HQAM	1	0	20.90	21.27	20.83				
10	HQAM	1	25	21.25	21.01	21.07	22.5	0		
10	HQAM	1	49	21.31	21.31	21.19				
10	HQAM	6	0	20.99	21.25	20.95				
10	HQAM	6	12	21.15	20.93	21.23	22.5	0		
10	HQAM	6	25	21.12	21.20	21.08				
10	HQAM	6	38	21.10	21.24	20.82				
10	HQAM	1	0	21.10	21.15	21.21				
10	HQAM	1	25	21.19	21.15	21.21	22.5	0		
10	HQAM	1	49	20.99	21.22	20.97				



Band 17 Ant1 DSI1

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (mW)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.03	21.08	21.17		
10	QPSK	1	25	20.90	21.22	21.14	22.5	0
10	QPSK	1	49	20.87	21.05	21.21		
10	QPSK	5	0	21.02	21.10	21.11		
10	QPSK	5	12	20.86	21.11	21.03	22.5	0
10	QPSK	5	25	20.88	20.94	21.15		
10	QPSK	5	37	21.17	21.08	21.12		
10	16QAM	1	0	21.01	21.19	21.10		
10	16QAM	1	25	20.76	21.16	20.84	22.5	0
10	16QAM	1	49	20.82	20.84	21.00		
10	16QAM	5	0	20.87	21.15	20.84		
10	16QAM	5	12	20.87	21.02	21.00	22.5	0
10	16QAM	5	25	21.22	21.19	21.08		
10	16QAM	5	37	21.07	21.29	21.08		
10	16QAM	5	49	20.77	21.21	21.09	22.5	0
10	16QAM	1	25	20.84	20.88	21.01		
10	16QAM	1	49	20.78	21.15	21.12		
10	16QAM	5	0	21.01	21.00	20.98		
10	16QAM	5	12	20.86	21.20	21.02	22.5	0
10	16QAM	5	25	20.84	20.87	21.07		
10	16QAM	5	37	20.79	20.93	21.17		
10	256QAM	1	0	19.25	19.41	19.13		
10	256QAM	1	25	19.86	19.42	19.19	20.5	2
10	256QAM	1	49	19.92	19.38	19.30		
10	256QAM	5	0	19.20	19.38	19.05		
10	256QAM	5	12	19.81	19.36	19.14	20.5	2
10	256QAM	5	25	19.85	19.08	19.27		
10	256QAM	5	37	19.87	19.01	19.32		
Channel								
Frequency (MHz)								
8	QPSK	1	0	21.08	21.23	21.19		
8	QPSK	1	18	20.90	21.26	21.16	22.5	0
8	QPSK	1	24	20.82	20.95	21.20		
8	QPSK	12	0	20.84	21.11	20.88		
8	QPSK	12	7	20.88	21.06	20.84	22.5	0
8	QPSK	12	13	20.71	20.82	21.03		
8	QPSK	25	0	21.11	21.28	20.81		
8	16QAM	1	0	21.02	21.29	21.01		
8	16QAM	1	12	20.83	21.20	20.97	22.5	0
8	16QAM	1	24	20.84	20.86	21.19		
8	16QAM	12	0	20.88	20.87	20.76	22.5	0
8	16QAM	12	7	20.84	20.99	20.80		
8	16QAM	12	13	21.20	21.24	20.95		
8	16QAM	25	0	20.83	21.18	20.89		
8	16QAM	1	0	20.73	21.22	20.80	22.5	0
8	16QAM	1	12	20.80	20.87	20.83		
8	16QAM	1	24	20.76	20.89	21.07		
8	16QAM	12	0	21.01	21.27	21.17		
8	16QAM	12	7	20.83	21.25	21.16	22.5	0
8	16QAM	12	13	20.97	20.84	21.00		
8	16QAM	25	0	20.81	20.76	21.16		
8	256QAM	1	0	19.07	19.20	19.88		
8	256QAM	1	12	18.83	19.21	19.17	20.5	2
8	256QAM	1	24	18.89	19.79	18.81		
8	256QAM	12	0	19.09	19.21	18.85		
8	256QAM	12	13	18.80	19.07	19.13	20.5	2
8	256QAM	25	0	18.80	18.80	19.25		

Band 26 Ant1 DSI1

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (mW)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.05	21.20	21.25		
15	QPSK	1	37	21.05	21.20	21.25	22.5	0
15	QPSK	1	74	21.04	21.07	21.21		
15	QPSK	5	0	21.12	21.08	21.11		
15	QPSK	5	20	21.06	21.09	20.80	22.5	0
15	QPSK	5	36	20.91	20.88	21.18		
15	QPSK	5	53	21.24	21.22	21.22		
15	16QAM	1	0	20.95	21.05	20.88		
15	16QAM	1	37	20.88	20.88	21.04	22.5	0
15	16QAM	1	74	21.24	21.25	21.17		
15	16QAM	5	0	20.93	21.23	20.80		
15	16QAM	5	20	20.84	21.00	20.78	22.5	0
15	16QAM	5	36	21.08	21.24	21.17		
15	16QAM	5	53	21.00	21.03	20.88		
15	16QAM	5	69	20.84	21.00	20.78	22.5	0
15	16QAM	1	37	21.20	21.18	21.15		
15	16QAM	1	74	20.87	21.19	20.92		
15	16QAM	5	0	21.23	21.27	21.25		
15	16QAM	5	20	20.84	21.08	20.83	22.5	0
15	16QAM	5	36	20.89	21.03	21.00		
15	16QAM	5	53	21.05	20.91	21.08		
15	256QAM	1	0	19.28	19.38	19.34		
15	256QAM	1	37	19.22	19.22	19.20	20.5	2
15	256QAM	1	74	19.34	19.35	19.64		
15	256QAM	5	0	19.11	19.08	19.27		
15	256QAM	5	20	19.34	19.24	19.11	20.5	2
15	256QAM	5	36	19.10	19.12	18.94		
15	256QAM	5	53	19.12	19.19	19.14		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.19	21.21	21.19		
10	QPSK	1	26	21.06	21.08	20.73	22.5	0
10	QPSK	1	49	20.82	20.95	21.07		
10	QPSK	25	0	21.08	21.17	20.90		
10	QPSK	25	12	20.92	20.91	20.74	22.5	0
10	QPSK	25	25	20.70	20.80	21.11		
10	QPSK	50	0	21.06	21.21	21.04		
10	16QAM	1	0	20.99	20.97	20.87		
10	16QAM	1	25	20.71	20.88	21.01	22.5	0
10	16QAM	1	49	21.14	21.17	21.13		
10	16QAM	25	0	20.87	21.20	20.84		
10	16QAM	25	12	20.81	20.84	20.83	22.5	0
10	16QAM	25	25	20.86	20.74	21.00		
10	16QAM	50	0	20.96	20.88	20.79		
10	16QAM	1	0	20.86	21.02	21.14		
10	16QAM	1	25	21.10	21.14	20.81	22.5	0
10	16QAM	1	49	20.86	21.11	20.82		
10	16QAM	25	0	21.11	21.15	21.11		
10	16QAM	25	12	20.81	20.84	20.89	22.5	0
10	16QAM	25	25	20.88	20.95	20.85		
10	16QAM	50	0	20.81	20.71	21.06		
10	256QAM	1	0	19.15	19.16	19.14		
10	256QAM	1	25	19.19	19.19	19.05	20.5	2
10	256QAM	1	49	19.13	19.05	19.25		
10	256QAM	25	0	19.28	19.18	19.00		
10	256QAM	25	12	19.34	19.04	19.00	20.5	2
10	256QAM	50	0	19.07	19.08	19.02		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.13	21.14	21.08		
5	QPSK	1	12	20.85	21.21	20.83	22.5	0
5	QPSK	1	24	20.98	21.08	21.15		
5	QPSK	12	0	21.06	21.16	20.83		
5	QPSK	12	7	20.96	20.96	20.75	22.5	0
5	QPSK	12	14	20.72	20.78	21.07		
5	QPSK	25	0	21.14	21.26	21.18		
5	16QAM	1	0	20.84	20.84	20.89		
5	16QAM	1	12	20.73	20.84	21.01	22.5	0
5	16QAM	1	24	21.19	21.12	20.86		
5	16QAM	12	0	20.93	21.05	20.87		
5	16QAM	12	7	20.84	20.80	20.93	22.5	0
5	16QAM	12	14	20.85	21.24	20.89		
5	16QAM	25	0	20.95	21.03	20.83		
5	16QAM	1	0	20.71	20.83	21.07		
5	16QAM	1	12	21.20	21.11	21.08	22.5	0
5	16QAM	1	24	20.71	21.05	20.81		
5	16QAM	12	0	21.08	21.11	21.00		
5	16QAM	12	7	20.88	21.09	20.73	22.5	0
5	16QAM	12	14	20.83	21.04	20.83		
5	16QAM	25	0	20.85	20.72	20.87		
5	256QAM	1	0	19.05	19.25	19.10		
5	256QAM	1	12	18.81	19.11	19.00	20.5	2
5	256QAM	1	24	18.85	19.08	19.11		
5	256QAM	12	0	19.21	19.05	19.12		
5	256QAM	12	7	19.21	19.05	19.12	20.5	2
5	256QAM	25	0	19.07	19.00	19.00		
Channel								
Frequency (MHz)								
3	QPSK	1	0	21.15	21.15	21.15		
3	QPSK	1	8	21.00	21.12	20.84	22.5	0
3	QPSK	1	14	20.87	20.93	21.08		
3	QPSK	8	0	21.00	21.00	21.04		
3	QPSK	8	4	20.80	20.81	20.81	22.5	0
3	QPSK	8	7	20.70	20.86	21.04		
3	QPSK	16	0	21.02	21.18	21.19		
3	16QAM	1	0	20.99	20.92	20.70	22.5	0
3	16QAM	1	8	20.86	20.88	21.01		
3	16QAM	1	14	21.14	21.18	21.03		
3	16QAM	8	0	20.73	21.04	20.89		
3	16QAM	8	4	21.00	20.91	20.84	22.5	0
3	16QAM	8	7	20.84	21.03	21.12		
3	16QAM	16	0	20.89	20.82	20.81		
3	16QAM	1	0	20.72	20.93	21.05		
3	16QAM	1	8	21.21	20.84	21.13	22.5	0
3	16QAM	1	14	20.78	21.04	20.72		
3	16QAM	8	0	21.08	21.18	21.17		
3	16QAM	8	4	20.70	20.84	20.73	22.5	0
3	16QAM	8	7	20.81	20.85	20.96		
3	16QAM	16	0	20.85	20.85	20.81		
3	256QAM	1	0	19.10	19.00	19.22		
3	256QAM	1	8	19.04	19.23	19.18	20.5	2
3	256QAM	1	14	19.01	19.25	19.		



GERM1007 Ant1 DS11 Default

TX Channel	Power Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	1	2	3		1	2	3	
Frequency (MHz)	25.74	30.08	35.20	31.00	25.74	31.08	31.20	22.00
GERM1 Tx sub	25.73	30.09	35.01	31.00	25.73	31.08	31.01	22.00
GERM2 Tx sub	25.68	29.71	33.00	28.00	25.68	30.72	30.00	22.00
GERM3 Tx sub	24.82	28.03	33.00	28.00	23.96	28.77	25.74	21.74
EDGE-1 Tx sub	25.78	28.89	33.89	28.00	25.78	28.89	28.89	22.00
EDGE-2 Tx sub	25.60	25.67	25.68	27.00	18.00	18.87	18.00	18.00
EDGE-3 Tx sub	22.72	22.84	22.83	24.00	18.72	18.84	18.83	18.00
EDGE-4 Tx sub	20.87	20.99	20.91	22.00	18.81	18.89	18.82	17.74
EDGE-5 Tx sub	19.71	19.80	19.81	21.00	18.71	18.80	18.81	18.00

WCDMA II Ant1 DS11 Default

Band	WCDMA II			Tx Power Limit (dBm)	WCDMA IV			Tx Power Limit (dBm)
	1	2	3		1	2	3	
Frequency (MHz)	1852.4	1860	1867.8	25.50	1727.4	1727.4	1727.6	25.50
WCDMA II Ant1 DS11 Subcarriers	24.43	24.46	24.41	24.50	24.43	24.43	24.43	24.50
WCDMA II Ant1 DS11 Subcarrier 1	23.76	23.76	23.76	24.50	23.91	23.91	23.91	24.50
WCDMA II Ant1 DS11 Subcarrier 2	23.25	23.29	23.28	24.50	23.42	23.48	23.49	24.50
WCDMA II Ant1 DS11 Subcarrier 3	22.44	22.37	22.36	24.50	22.85	22.86	22.86	24.50
WCDMA II Ant1 DS11 Subcarrier 4	22.85	22.88	22.82	24.50	23.02	23.01	23.01	24.50
WCDMA II Ant1 DS11 Subcarrier 5	23.37	23.30	23.31	24.50	23.55	23.50	23.50	24.50
WCDMA II Ant1 DS11 Subcarrier 6	23.25	23.37	23.41	24.50	23.03	23.00	23.00	24.50
WCDMA II Ant1 DS11 Subcarrier 7	22.81	22.75	22.81	24.50	22.70	22.87	22.87	24.50
WCDMA II Ant1 DS11 Subcarrier 8	22.62	22.87	22.78	24.50	22.09	22.08	22.04	24.50
WCDMA II Ant1 DS11 Subcarrier 9	22.88	22.81	22.89	24.50	23.18	23.09	23.00	24.50
WCDMA II Ant1 DS11 Subcarrier 10	23.00	23.00	23.00	25.00	23.14	23.09	23.01	25.00
WCDMA II Ant1 DS11 Subcarrier 11	21.88	21.95	21.83	23.50	22.88	22.94	21.90	23.50
WCDMA II Ant1 DS11 Subcarrier 12	21.02	21.08	21.01	23.50	21.11	21.08	21.08	23.50
WCDMA II Ant1 DS11 Subcarrier 13	22.90	22.89	22.86	24.50	23.08	23.01	23.04	24.50



Band 2 Ant3 DS1 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Mkcs Ch./Frac.	Power Pch Ch./Frac.	Turn-up Time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	1880	1880	1900				
20	QPSK	1	49	2437	2437	2440	25.5	0		
20	QPSK	1	99	2437	2437	2439				
20	QPSK	1	149	2437	2437	2438				
20	QPSK	50	24	2370	2370	2365	24.5	1		
20	QPSK	50	24	2386	2386	2381				
20	QPSK	50	24	2383	2383	2384				
20	QPSK	50	24	2379	2379	2376				
20	HQAM	1	0	2334	2330	2411				
20	HQAM	1	49	2426	2417	2413	24.5	1		
20	HQAM	1	99	2426	2426	2429				
20	HQAM	1	149	2426	2426	2427				
20	HQAM	50	24	2299	2297	2292	23.5	2		
20	HQAM	50	24	2299	2297	2297				
20	HQAM	100	0	2280	2280	2273				
20	HQAM	1	0	2286	2286	2282				
20	HQAM	1	49	2272	2258	2255	23.5	2		
20	HQAM	1	99	2285	2288	2289				
20	HQAM	1	149	2285	2288	2288				
20	HQAM	50	24	2187	2188	2191	22.5	3		
20	HQAM	50	24	2188	2188	2189				
20	HQAM	50	24	2187	2186	2174				
20	HQAM	100	0	2195	2195	2196				
20	ZSSBAM	1	0	1934	1930	1938	20.5	5		
20	ZSSBAM	1	49	1932	1931	1942				
20	ZSSBAM	1	99	1934	1934	1935				
20	ZSSBAM	1	149	1934	1934	1934				
20	ZSSBAM	50	0	1927	1927	1949	20.5	5		
20	ZSSBAM	50	24	1928	1928	1929				
20	ZSSBAM	50	24	1927	1927	1928				
20	ZSSBAM	100	0	1934	1930	1938				
Channel										
Frequency (MHz)										
15	QPSK	1	0	2438	2438	2440				
15	QPSK	1	49	2438	2438	2437	25.5	0		
15	QPSK	1	99	2438	2438	2439				
15	QPSK	1	149	2438	2438	2438				
15	QPSK	36	0	2388	2388	2389	24.5	1		
15	QPSK	36	0	2388	2388	2389				
15	QPSK	36	36	2388	2388	2385				
15	QPSK	36	36	2389	2389	2390				
15	HQAM	1	0	2343	2343	2406	24.5	1		
15	HQAM	1	49	2348	2347	2347				
15	HQAM	1	99	2348	2348	2349				
15	HQAM	1	149	2348	2348	2349				
15	HQAM	36	0	2298	2298	2299	23.5	2		
15	HQAM	36	0	2298	2298	2299				
15	HQAM	36	36	2298	2298	2295				
15	HQAM	36	36	2299	2299	2300				
15	HQAM	1	0	2282	2282	2278	23.5	2		
15	HQAM	1	49	2283	2283	2282				
15	HQAM	1	99	2283	2283	2284				
15	HQAM	1	149	2283	2283	2284				
15	HQAM	36	0	2192	2192	2193	22.5	3		
15	HQAM	36	0	2192	2192	2193				
15	HQAM	36	36	2192	2192	2189				
15	HQAM	36	36	2193	2193	2194				
15	HQAM	75	0	2142	2142	2147	20.5	5		
15	HQAM	75	0	2142	2142	2143				
15	HQAM	75	36	2142	2142	2139				
15	HQAM	75	36	2143	2143	2144				
15	ZSSBAM	1	0	1934	1930	1938	20.5	5		
15	ZSSBAM	1	49	1932	1931	1942				
15	ZSSBAM	1	99	1934	1934	1935				
15	ZSSBAM	1	149	1934	1934	1934				
15	ZSSBAM	36	0	1927	1927	1949	20.5	5		
15	ZSSBAM	36	24	1928	1928	1929				
15	ZSSBAM	36	24	1927	1927	1928				
15	ZSSBAM	100	0	1934	1930	1938				
Channel										
Frequency (MHz)										
10	QPSK	1	0	2442	2442	2448				
10	QPSK	1	25	2442	2442	2444	25.5	0		
10	QPSK	1	49	2442	2442	2443				
10	QPSK	1	74	2443	2443	2446				
10	QPSK	25	0	2388	2388	2389	24.5	1		
10	QPSK	25	0	2388	2388	2389				
10	QPSK	25	12	2388	2388	2385				
10	QPSK	25	12	2389	2389	2390				
10	HQAM	1	0	2346	2346	2406	24.5	1		
10	HQAM	1	49	2346	2346	2347				
10	HQAM	1	99	2346	2346	2347				
10	HQAM	1	149	2346	2346	2347				
10	HQAM	25	0	2298	2298	2299	23.5	2		
10	HQAM	25	0	2298	2298	2299				
10	HQAM	25	12	2298	2298	2295				
10	HQAM	25	12	2299	2299	2300				
10	HQAM	1	0	2282	2282	2278	23.5	2		
10	HQAM	1	49	2283	2283	2282				
10	HQAM	1	99	2283	2283	2284				
10	HQAM	1	149	2283	2283	2284				
10	HQAM	25	0	2192	2192	2193	22.5	3		
10	HQAM	25	0	2192	2192	2193				
10	HQAM	25	12	2192	2192	2189				
10	HQAM	25	12	2193	2193	2194				
10	HQAM	50	0	2142	2142	2147	20.5	5		
10	HQAM	50	0	2142	2142	2143				
10	HQAM	50	36	2142	2142	2139				
10	HQAM	50	36	2143	2143	2144				
10	ZSSBAM	1	0	1934	1930	1938	20.5	5		
10	ZSSBAM	1	49	1932	1931	1942				
10	ZSSBAM	1	99	1934	1934	1935				
10	ZSSBAM	1	149	1934	1934	1934				
10	ZSSBAM	25	0	1927	1927	1949	20.5	5		
10	ZSSBAM	25	12	1928	1928	1929				
10	ZSSBAM	25	12	1927	1927	1928				
10	ZSSBAM	100	0	1934	1930	1938				
Channel										
Frequency (MHz)										
5	QPSK	1	0	2442	2442	2448				
5	QPSK	1	12	2443	2443	2444	25.5	0		
5	QPSK	1	24	2443	2443	2444				
5	QPSK	1	36	2443	2443	2444				
5	QPSK	12	7	2388	2388	2389	24.5	1		
5	QPSK	12	7	2388	2388	2389				
5	QPSK	12	7	2389	2389	2390				
5	QPSK	12	7	2388	2388	2385				
5	HQAM	1	0	2346	2346	2406	24.5	1		
5	HQAM	1	49	2346	2346	2347				
5	HQAM	1	99	2346	2346	2347				
5	HQAM	1	149	2346	2346	2347				
5	HQAM	12	7	2298	2298	2299	23.5	2		
5	HQAM	12	7	2298	2298	2299				
5	HQAM	12	7	2299	2299	2300				
5	HQAM	12	7	2298	2298	2295				
5	HQAM	1	0	2282	2282	2278	23.5	2		
5	HQAM	1	49	2283	2283	2282				
5	HQAM	1	99	2283	2283	2284				
5	HQAM	1	149	2283	2283	2284				
5	HQAM	12	7	2192	2192	2193	22.5	3		
5	HQAM	12	7	2192	2192	2193				
5	HQAM	12	7	2193	2193	2194				
5	HQAM	12	7	2192	2192	2189				
5	ZSSBAM	1	0	1934	1930	1938	20.5	5		
5	ZSSBAM	1	49	1932	1931	1942				
5	ZSSBAM	1	99	1934	1934	1935				
5	ZSSBAM	1	149	1934	1934	1934				
5	ZSSBAM	12	7	1927	1927	1949	20.5	5		
5	ZSSBAM	12	7	1928	1928	1929				
5	ZSSBAM	12	7	1927	1927	1928				
5	ZSSBAM	100	0	1934	1930	1938				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	2436	2436	2447				
1.4	QPSK	1	0	2437	2436	2440	25.5	0		
1.4	QPSK	1	14	2435	2435	2437				
1.4	QPSK	1	28	2435	2435	2437				
1.4	QPSK	8	0	2382	2382	2387	24.5	1		
1.4	QPSK	8	0	2382	2382	2387				
1.4	QPSK	8	7	2384	2384	2388				
1.4	QPSK	8	7	2384	2384	2388				
1.4	HQAM	1	0	2334	2334	2411	24.5	1		
1.4	HQAM	1	49	2334	2334	2335				
1.4	HQAM	1	99	2334	2334	2335				
1.4	HQAM	1	149	2334	2334	2335				
1.4	HQAM	8	0	2286	2286	2282	23.5	2		
1.4	HQAM	8	0	2286	2286	2282				
1.4	HQAM	8	7	2288	2288	2289				
1.4	HQAM	8	7	2288	2288	2289				
1.4	HQAM	14	0	2246	2246	2251	22.5	3		
1.4	HQAM	14	0	2246	2246	2247				
1.4	HQAM	14	7	2248	2248	2249				
1.4	HQAM	14	7	2248	2248	2249				
1.4	HQAM	8	0	2198	2198	2193	20.5	5		
1.4	HQAM	8	0	2198	2198	2199				
1.4	HQAM	8	7							



Band 38 Ant3 DS11 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int (min)	MPR (dB)
Channel				38760	38800	38190				
Frequency (MHz)										
20	QPSK	1	0	24.11	24.20	24.20				
20	QPSK	1	49	24.00	24.08	24.14			25.5	0
20	QPSK	1	99	24.00	24.10	24.00				
20	QPSK	50	0	23.19	23.26	23.20				
20	QPSK	50	24	23.26	23.17	23.20			24.5	1
20	QPSK	50	50	23.17	23.23	23.10				
20	QPSK	100	0	23.19	23.26	23.10				
20	HQAM	1	0	23.18	23.25	23.00				
20	HQAM	1	49	23.38	23.31	23.30			24.5	1
20	HQAM	1	99	23.27	23.12	23.15				
20	HQAM	50	0	23.26	23.19	23.10				
20	HQAM	50	24	23.33	23.24	23.20			23.5	2
20	HQAM	50	50	23.26	23.26	23.10				
20	HQAM	100	0	23.31	23.23	23.21				
20	HQAM	1	0	22.20	22.19	22.24			23.5	2
20	HQAM	1	49	22.20	22.32	22.47				
20	HQAM	1	99	22.44	22.38	22.42				
20	HQAM	50	0	22.44	22.54	22.46				
20	HQAM	50	24	21.31	21.27	21.25			23.5	3
20	HQAM	50	50	21.23	21.15	21.14				
20	HQAM	100	0	21.26	21.28	21.21				
20	SSBQAM	1	0	19.08	19.22	19.38			20.5	5
20	SSBQAM	1	49	19.02	19.07	19.20				
20	SSBQAM	1	99	19.07	19.09	19.07				
20	SSBQAM	50	0	19.23	19.18	19.10			20.5	5
20	SSBQAM	50	24	19.25	19.21	19.20				
20	SSBQAM	50	50	19.25	19.14	19.22				
20	SSBQAM	100	0	19.18	19.27	19.14				
Channel				38774	38815	38173				
Frequency (MHz)										
16	QPSK	1	0	24.00	24.07	24.00				
16	QPSK	1	37	23.86	24.00	23.95			25.0	0
16	QPSK	1	74	23.94	24.07	23.89				
16	QPSK	36	0	23.16	23.15	23.10				
16	QPSK	36	20	23.15	23.10	23.12			24.5	1
16	QPSK	36	39	23.31	23.11	23.06				
16	QPSK	36	79	23.31	23.14	23.21				
16	HQAM	1	0	23.06	22.97	22.92			24.5	1
16	HQAM	1	37	23.10	23.00	23.00				
16	HQAM	1	74	23.18	23.09	23.07				
16	HQAM	36	0	22.11	22.08	22.00				
16	HQAM	36	20	22.26	22.12	22.11			23.5	2
16	HQAM	36	39	22.20	22.19	22.18				
16	HQAM	75	0	22.20	22.19	22.11				
16	HQAM	1	0	22.24	22.09	22.16				
16	HQAM	1	37	22.22	22.19	22.30			23.5	2
16	HQAM	1	74	22.26	22.16	22.16				
16	HQAM	36	0	21.24	21.21	21.38				
16	HQAM	36	20	21.23	21.23	21.20			22.5	3
16	HQAM	36	39	21.28	21.20	21.20				
16	HQAM	75	0	21.28	21.24	21.20				
16	SSBQAM	1	0	19.02	19.08	19.15			20.5	5
16	SSBQAM	1	37	19.02	19.08	19.15				
16	SSBQAM	1	74	19.03	19.09	19.07				
16	SSBQAM	36	0	19.07	19.07	19.01			20.5	5
16	SSBQAM	36	20	19.08	19.22	19.00				
16	SSBQAM	36	39	19.11	19.13	19.17				
16	SSBQAM	75	0	19.08	19.25	19.12				
Channel				38780	38806	38639				
Frequency (MHz)										
10	QPSK	1	0	24.02	24.08	24.00				
10	QPSK	1	25	23.89	23.97	24.00			25.5	0
10	QPSK	1	49	24.00	24.00	24.00				
10	QPSK	25	0	23.32	23.17	23.24				
10	QPSK	25	12	23.04	23.02	23.11			24.5	1
10	QPSK	25	24	23.02	23.00	23.00				
10	QPSK	50	0	23.33	23.20	23.20				
10	HQAM	1	0	23.26	23.26	23.10				
10	HQAM	1	25	23.26	23.27	23.30			24.5	1
10	HQAM	1	49	23.08	23.04	23.10				
10	HQAM	25	0	22.14	22.12	22.00			23.5	2
10	HQAM	25	12	22.30	22.13	22.12				
10	HQAM	25	24	22.21	22.19	22.13				
10	HQAM	50	0	22.26	22.10	22.11			23.5	2
10	HQAM	1	0	22.26	22.13	22.13				
10	HQAM	1	49	22.36	22.26	22.38				
10	HQAM	25	0	21.31	21.20	21.31			22.5	3
10	HQAM	25	12	21.26	21.20	21.20				
10	HQAM	25	24	21.30	21.21	21.13				
10	HQAM	50	0	21.26	21.26	21.10				
10	SSBQAM	1	0	19.05	19.08	19.07			20.5	5
10	SSBQAM	1	25	19.05	19.03	19.02				
10	SSBQAM	1	49	19.01	19.00	19.00				
10	SSBQAM	25	0	19.12	19.10	19.00			20.5	5
10	SSBQAM	25	12	19.09	19.08	19.04				
10	SSBQAM	25	24	19.25	19.05	19.21				
10	SSBQAM	50	0	19.07	19.15	19.00				
Channel				38772	38808	38675				
Frequency (MHz)										
5	QPSK	1	0	24.01	24.10	23.93				
5	QPSK	1	13	23.87	23.94	24.00			25.5	0
5	QPSK	1	24	24.00	23.99	23.92				
5	QPSK	12	0	23.37	23.17	23.10				
5	QPSK	12	13	23.26	23.10	23.10			24.5	1
5	QPSK	25	0	23.26	23.15	23.10				
5	HQAM	1	0	23.10	22.97	22.90			24.5	1
5	HQAM	1	12	23.25	23.27	23.32				
5	HQAM	1	24	23.18	23.07	23.00				
5	HQAM	12	0	22.11	22.12	22.11			23.5	2
5	HQAM	1	0	22.23	22.12	22.11				
5	HQAM	1	12	22.24	22.25	22.40			23.5	2
5	HQAM	1	24	22.20	22.04	22.07				
5	HQAM	12	7	21.24	21.13	21.10			22.5	3
5	HQAM	12	13	21.11	21.06	21.00				
5	HQAM	25	0	21.26	21.31	21.24				
5	SSBQAM	1	0	19.06	19.16	19.05			20.5	5
5	SSBQAM	1	13	19.03	19.01	19.00				
5	SSBQAM	1	24	19.01	19.00	19.01				
5	SSBQAM	12	0	19.22	19.20	19.21			20.5	5
5	SSBQAM	12	7	19.14	19.14	19.23				
5	SSBQAM	12	13	19.14	19.07	19.20				
5	SSBQAM	25	0	19.11	19.16	19.03				

Band 41 Ant3 DS11 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int (min)	MPR (dB)
Channel				39750	40165	40300	40555	41660		
Frequency (MHz)										
20	QPSK	1	0	24.23	24.25	24.20				
20	QPSK	1	49	24.19	24.07	24.20			25.5	0
20	QPSK	1	99	24.06	24.05	24.17				
20	QPSK	50	0	23.23	23.34	23.30				
20	QPSK	50	24	23.30	23.20	23.16			24.5	1
20	QPSK	50	50	23.16	23.22	23.34				
20	QPSK	100	0	23.27	23.30	23.30				
20	HQAM	1	0	23.28	23.29	23.16				
20	HQAM	1	49	23.25	23.24	23.28			24.5	1
20	HQAM	1	99	23.26	23.10	23.32				
20	HQAM	50	0	23.23	23.25	23.30			23.5	2
20	HQAM	50	24	23.23	23.25	23.30				
20	HQAM	50	50	23.13	23.16	23.20				
20	HQAM	100	0	23.13	23.16	23.20				
20	HQAM	1	0	22.11	22.16	22.20			23.5	2
20	HQAM	1	49	22.22	22.21	22.28				
20	HQAM	1	99	22.27	22.20	22.26				
20	HQAM	50	0	22.14	22.07	22.10				
20	HQAM	50	24	21.17	21.14	21.20			23.5	3
20	HQAM	50	50	21.32	21.26	21.34				
20	HQAM	100	0	21.14	21.01	21.03			21.00	
20	SSBQAM	1	0	19.26	19.36	19.35			20.5	5
20	SSBQAM	1	49	19.27	19.17	19.28				
20	SSBQAM	1	99	19.26	19.16	19.24				
20	SSBQAM	50	0	19.26	19.28	19.47			20.5	5
20	SSBQAM	50	24	19.25	19.21	19.26				
20	SSBQAM	50	50	19.22	19.18	19.20				
20	SSBQAM	100	0	19.38	19.23	19.38			19.51	
Channel				39752	40167	40302	40557	41662		
Frequency (MHz)										
16	QPSK	1	0	24.00	24.10	24.21				
16	QPSK	1	37	24.11	23.90	24.10			25.0	0
16	QPSK	1	74	23.97	24.14	23.98				
16	QPSK	36	0	23.06	23.08	23.00				
16	QPSK	36	20	23.24	23.19	23.18			24.5	1
16	QPSK	36	39	23.01	23.00	23.14				
16	QPSK	36	79	23.11	23.14					



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Table for Band 2 Ant4 DS1H. Columns include Channel, Frequency (MHz), Modulation, RB Size, RB Offset, Power Low (dBm), Power High (dBm), Power Max (dBm), Power Avg (dBm), Turn-up (dB), Turn-off (dB), MPR (dB), and MPR (dB). The table lists 20 channels for frequencies ranging from 15.66 to 15.76 MHz.

Table for Band 4 Ant4 DS1H. Columns include Channel, Frequency (MHz), Modulation, RB Size, RB Offset, Power Low (dBm), Power High (dBm), Power Max (dBm), Power Avg (dBm), Turn-up (dB), Turn-off (dB), MPR (dB), and MPR (dB). The table lists 20 channels for frequencies ranging from 15.23 to 15.25 MHz.

Table for Band 7 Ant4 DS1H. Columns include Channel, Frequency (MHz), Modulation, RB Size, RB Offset, Power Low (dBm), Power High (dBm), Power Max (dBm), Power Avg (dBm), Turn-up (dB), Turn-off (dB), MPR (dB), and MPR (dB). The table lists 20 channels for frequencies ranging from 15.56 to 15.58 MHz.

Table for Band 66 Ant4 DS1H. Columns include Channel, Frequency (MHz), Modulation, RB Size, RB Offset, Power Low (dBm), Power High (dBm), Power Max (dBm), Power Avg (dBm), Turn-up (dB), Turn-off (dB), MPR (dB), and MPR (dB). The table lists 20 channels for frequencies ranging from 15.92 to 15.95 MHz.



GERM1007 And DS1 1 Default

	Band	Average Power (dBm)	Y-Limit	Frame Average Power (dBm)	Time-avg Limit
TX Channel	312	18.61	19.0	18.61	19.0
Frequency (MHz)	19.92	19.94	19.93	19.93	19.93
GERM1 Tx limit	20.81	20.94	20.93	20.93	20.93
GERM1 1 Tx limit	20.78	20.80	20.82	20.80	20.82
GERM1 2 Tx limit	20.45	20.41	20.35	20.45	20.35
GERM1 3 Tx limit	20.84	20.82	20.58	20.50	20.58
GERM1 4 Tx limit	20.84	20.82	20.58	20.50	20.58
EDGE-1 Tx limit	24.33	24.32	24.17	24.33	24.17
EDGE-2 Tx limit	21.89	21.72	21.83	21.89	21.83
EDGE-3 Tx limit	19.95	19.80	19.85	19.84	19.82
EDGE-4 Tx limit	18.60	18.48	18.30	18.60	18.48

WCDMA II And DS1

	Band	WCDMA II	Time-avg Limit	WCDMA IV	Time-avg Limit
TX Channel	302	300	300	312	312
Frequency (MHz)	1852.4	1851	1851.8	1727.4	1727.4
WCDMA II And DS1	18.52	18.46	18.49	17.27	17.27
WCDMA II Subband 1	18.49	18.50	18.47	17.48	17.50
WCDMA II Subband 2	17.52	17.29	17.50	16.95	16.95
WCDMA II Subband 3	17.49	17.31	17.49	16.99	16.87
WCDMA II Subband 4	17.26	17.14	17.11	16.95	16.95
WCDMA II Subband 5	17.45	17.67	17.56	16.97	16.84
WCDMA II Subband 6	17.57	17.60	17.56	16.97	16.95
WCDMA II Subband 7	17.26	16.96	17.13	16.94	16.18
WCDMA II Subband 8	17.11	17.09	17.05	16.94	16.23
WCDMA II Subband 9	17.25	17.49	17.39	16.97	16.80
WCDMA II Subband 10	15.51	15.57	15.49	14.91	14.92
WCDMA II Subband 11	16.51	16.41	16.36	15.43	15.72
WCDMA II Subband 12	17.46	17.63	17.46	16.55	16.49
WCDMA II Subband 13	17.64	17.52	17.51	16.94	16.97

WCDMA IV And DS1

	Band	WCDMA II	Time-avg Limit	WCDMA IV	Time-avg Limit
TX Channel	302	300	300	312	312
Frequency (MHz)	1852.4	1851	1851.8	1727.4	1727.4
WCDMA II And DS1	18.52	18.46	18.49	17.27	17.27
WCDMA II Subband 1	18.49	18.50	18.47	17.48	17.50
WCDMA II Subband 2	17.52	17.29	17.50	16.95	16.95
WCDMA II Subband 3	17.49	17.31	17.49	16.99	16.87
WCDMA II Subband 4	17.26	17.14	17.11	16.95	16.95
WCDMA II Subband 5	17.45	17.67	17.56	16.97	16.84
WCDMA II Subband 6	17.57	17.60	17.56	16.97	16.95
WCDMA II Subband 7	17.26	16.96	17.13	16.94	16.18
WCDMA II Subband 8	17.11	17.09	17.05	16.94	16.23
WCDMA II Subband 9	17.25	17.49	17.39	16.97	16.80
WCDMA II Subband 10	15.51	15.57	15.49	14.91	14.92
WCDMA II Subband 11	16.51	16.41	16.36	15.43	15.72
WCDMA II Subband 12	17.46	17.63	17.46	16.55	16.49
WCDMA II Subband 13	17.64	17.52	17.51	16.94	16.97



Band 5 Ant1 DS1i ENDC

Table for Band 5 Ant1 DS1i ENDC showing parameters for various frequencies, modulation, RB Size, RB Offset, Power, and MPR (dB) for channels 1-5.

Band 12 Ant1 DS1i ENDC

Table for Band 12 Ant1 DS1i ENDC showing parameters for various frequencies, modulation, RB Size, RB Offset, Power, and MPR (dB) for channels 1-5.

Band 17 Ant1 DS1i ENDC

Table for Band 17 Ant1 DS1i ENDC showing parameters for various frequencies, modulation, RB Size, RB Offset, Power, and MPR (dB) for channels 1-5.

Band 26 Ant1 DS1i ENDC

Table for Band 26 Ant1 DS1i ENDC showing parameters for various frequencies, modulation, RB Size, RB Offset, Power, and MPR (dB) for channels 1-5.



Band 2 Ant4 DS1i ENDC													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch/Freq	Power MkCh/Freq	Power PbCh/Freq	Time-up (sec)	MRR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	13.95	13.97	13.98	15	0					

Band 4 Ant4 DS1i ENDC													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch/Freq	Power MkCh/Freq	Power PbCh/Freq	Time-up (sec)	MRR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	14.16	14.17	14.18	15	0					

Band 7 Ant4 DS1i ENDC													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch/Freq	Power MkCh/Freq	Power PbCh/Freq	Time-up (sec)	MRR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	13.97	13.99	14.00	15	0					

Band 66 Ant4 DS1i ENDC													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch/Freq	Power MkCh/Freq	Power PbCh/Freq	Time-up (sec)	MRR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	13.92	13.94	13.95	15	0					



Band 4 Ant5 DS1i ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Peak Rate, Power Spectral Density, T-adj, MPR, etc. Includes sub-headers for Channel, T-adj, and MPR.

Band 7 Ant5 DS1i ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Peak Rate, Power Spectral Density, T-adj, MPR, etc. Includes sub-headers for Channel, T-adj, and MPR.

Band 66 Ant5 DS1i ENDC

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Peak Rate, Power Spectral Density, T-adj, MPR, etc. Includes sub-headers for Channel, T-adj, and MPR.



Band 38 Ant5 DS11 ENDC												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.79	15.92	15.74						
20	QPSK	1	49	15.87	15.76	15.85	17	0				
20	QPSK	1	99	15.79	15.90	15.85						
20	QPSK	50	0	15.43	15.73	15.45						
20	QPSK	50	24	15.50	15.55	15.29	17	0				
20	QPSK	50	50	15.09	15.74	15.71						
20	QPSK	100	0	15.81	15.75	15.33						
20	HQAM	1	0	15.43	15.43	15.38						
20	HQAM	1	49	15.72	15.44	15.87	17	0				
20	HQAM	1	99	15.36	15.76	15.20						
20	HQAM	50	0	15.75	15.84	15.87						
20	HQAM	50	24	15.63	15.83	15.77	17	0				
20	HQAM	50	50	15.06	15.74	15.71						
20	HQAM	100	0	15.71	15.46	15.24						
20	HQAM	1	0	15.47	15.85	15.58						
20	HQAM	1	49	15.92	15.51	15.71	17	0				
20	HQAM	1	99	15.45	15.47	15.44						
20	HQAM	50	0	15.79	15.55	15.45						
20	HQAM	50	24	15.35	15.71	15.25	17	0				
20	HQAM	50	50	15.55	15.55	15.40						
20	HQAM	100	0	15.69	15.41	15.47						
20	SSBQAM	1	0	15.84	15.77	15.77						
20	SSBQAM	1	49	15.79	15.85	15.84	17	0				
20	SSBQAM	1	99	15.89	15.88	15.87						
20	SSBQAM	50	0	15.26	15.86	15.63						
20	SSBQAM	50	24	15.41	15.52	15.52	17	0				
20	SSBQAM	50	50	15.90	15.54	15.63						
20	SSBQAM	100	0	15.59	15.80	15.80						

Band 41 Ant5 DS11 ENDC												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)			
Channel												
Frequency (MHz)												
20	QPSK	1	0	15.82	15.84	15.95	15.82	15.72				
20	QPSK	1	49	15.88	15.98	15.72	15.80	15.87	17	0		
20	QPSK	1	99	15.81	15.90	15.79	15.80	15.86				
20	QPSK	50	0	15.81	15.70	15.90	15.80	15.70				
20	QPSK	50	24	15.50	15.48	15.88	15.83	15.86	17	0		
20	QPSK	50	50	15.80	15.41	15.85	15.83	15.85				
20	QPSK	100	0	15.80	15.56	15.70	15.47	15.53				
20	HQAM	1	0	15.83	15.73	15.81	15.84	15.83				
20	HQAM	1	49	15.78	15.78	15.80	15.75	15.88	17	0		
20	HQAM	1	99	15.89	15.86	15.75	15.73	15.75				
20	HQAM	50	0	15.95	15.89	15.89	15.83	15.94				
20	HQAM	50	24	15.83	15.82	15.83	15.88	15.88	17	0		
20	HQAM	50	50	15.90	15.74	15.74	15.74	15.71				
20	HQAM	100	0	15.54	15.43	15.46	15.86	15.86				
20	HQAM	1	0	15.35	15.40	15.89	15.73	15.42				
20	HQAM	1	49	15.82	15.88	15.89	15.83	15.79	17	0		
20	HQAM	1	99	15.72	15.82	15.74	15.79	15.72				
20	HQAM	50	0	15.79	15.70	15.81	15.84	15.83				
20	HQAM	50	24	15.85	15.84	15.72	15.81	15.85	17	0		
20	HQAM	50	50	15.84	15.45	15.45	15.38	15.88				
20	HQAM	100	0	15.37	15.40	15.86	15.80	15.33				
20	256QAM	1	0	15.80	15.49	15.53	15.85	15.56				
20	256QAM	1	49	15.33	15.80	15.72	15.71	15.87	17	0		
20	256QAM	1	99	15.83	15.79	15.84	15.84	15.82				
20	256QAM	50	0	15.82	15.55	15.27	15.87	15.87	17	0		
20	256QAM	50	24	15.45	15.87	15.51	15.51	15.26				
20	256QAM	50	50	15.85	15.48	15.81	15.33	15.37				
20	256QAM	100	0	15.59	15.27	15.58	15.28	15.42				



GSM900 Aved DS13 Default

Channel	Band Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	150	155	161		150	155	161	
TX Channel	126	131	137.8	24	148	153	160	24
Frequency (MHz)	934.2	939.6	945.0	33.50	934.2	939.6	945.0	33.50
CDMA 1 Tx slot	23.79	32.70	32.09	33.50	23.19	23.15	23.18	23.50
ISDPH 1 Tx slot	22.30	22.20	22.32	33.50	23.05	23.20	23.32	24.00
ISDPH 2 Tx slot	22.13	22.07	22.00	33.50	22.13	22.07	22.00	24.00
ISDPH 3 Tx slot	22.63	22.23	22.15	23.50	23.37	22.97	22.89	24.24
EDGE 1 Tx slot	22.08	22.08	22.08	22.50	22.08	22.08	22.08	24.00
EDGE 2 Tx slot	20.33	20.17	20.12	21.50	17.33	17.17	17.10	18.50
EDGE 3 Tx slot	20.30	20.12	20.01	24.50	17.30	17.12	17.01	18.50
EDGE 4 Tx slot	20.27	20.12	20.04	22.50	17.01	17.04	17.04	18.24
EDGE 4 Tx slot	20.33	20.28	20.19	21.50	17.33	17.28	17.19	18.50

WCDMA V Aved DS13 Default

Band	WCDMA V			Tx Power Limit (dBm)
	4132	4132	4233	
TX Channel	4429	4469	4469	24
Frequency (MHz)	2014	2014	2014	33.50
ISDPH Rel 99	24.24	24.43	24.25	24.50
ISDPH Rel 99	24.30	24.40	24.27	24.50
ISDPH Rel 99	23.32	23.29	23.41	24.50
ISDPH Rel 99	23.34	23.41	23.27	24.50
ISDPH Rel 99	22.25	22.34	22.24	24.50
ISDPH Rel 99	22.03	22.01	22.07	24.50
ISDPH Rel 99	22.43	22.44	22.28	24.50
ISDPH Rel 99	22.65	22.61	22.25	24.50
ISDPH Rel 99	22.90	22.85	22.80	24.50
ISDPH Rel 99	22.75	22.80	22.87	24.50
ISDPH Rel 99	23.30	23.40	23.28	24.50
ISDPH Rel 99	21.42	21.40	21.30	23.50
ISDPH Rel 99	22.32	22.55	22.28	23.50
ISDPH Rel 99	21.49	21.44	21.23	23.50
ISDPH Rel 99	21.32	21.42	21.28	24.50



Band 38 Ant0 DS13(only on channel required)

Table with columns: Biv (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Tune-up Int, MPR. Includes sub-headers for Channel, Frequency (MHz), and various modulation types like QPSK, 16QAM, 64QAM, etc.

Band 41 Ant0 DS13 (2.6G Band)

Table with columns: Biv (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Tune-up Int, MPR. Includes sub-headers for Channel, Frequency (MHz), and various modulation types like QPSK, 16QAM, 64QAM, etc.

Band 42 Ant0 DS13 FCC Part27Q

Table with columns: Biv (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Tune-up Int, MPR. Includes sub-headers for Channel, Frequency (MHz), and various modulation types like QPSK, 16QAM, 64QAM, etc.



CDMA2000 Rev1E DSSS Outlay

Channel	Band	Average Power (dBm)	Y-Use-up Limit	Frame Average Power Limit	Time-up Limit
TV Channel	128	186	-91	148	186
Frequency (MHz)	25.2	31.4	31.8	31.2	31.8
CDMA 1 Tx out	23.75	32.18	32.18	33.50	23.18
ISPPM Subcar 1	23.23	32.30	32.17	33.50	23.33
ISPPM Subcar 2	23.62	32.21	32.81	33.50	23.61
ISPPM Subcar 3	24.42	28.19	27.59	28.50	24.23
ISPPM Subcar 4	24.78	28.19	27.59	28.50	24.78
EDGE-1 Tx out	26.32	26.45	26.01	27.50	17.30
EDGE-2 Tx out	23.43	23.42	23.21	24.50	17.43
EDGE-3 Tx out	23.92	23.79	23.62	22.50	17.67
EDGE-4 Tx out	20.51	20.42	20.27	21.50	17.51

WCDMA V-Art DSSS

Band	WCDMA V	Y-Use-up Limit
TV Channel	4132	4233
TV Channel	4427	4427
Frequency (MHz)	25.4	31.6
ISPPM Subcar 1	21.42	21.43
ISPPM Subcar 2	21.59	21.61
ISPPM Subcar 3	20.78	20.79
ISPPM Subcar 4	20.39	20.33
ISPPM Subcar 5	20.11	20.25
ISPPM Subcar 6	20.01	20.09
ISPPM Subcar 7	20.88	20.80
ISPPM Subcar 8	20.55	20.57
ISPPM Subcar 9	20.20	20.15
ISPPM Subcar 10	20.12	20.21
ISPPM Subcar 11	20.67	20.59
ISPPM Subcar 12	19.69	19.73
ISPPM Subcar 13	19.81	19.70
ISPPM Subcar 14	19.24	19.44
ISPPM Subcar 15	20.09	20.00



GSM1900 And DSIS Default

Band	Power Average Power (dBm)			Tx Power Limit	Frame Average Power (dBm)			Tx Power Limit
	Min	Max	Typ		Min	Max	Typ	
TX Channel	31.2	36.1	31.0	31.0	31.2	36.1	31.0	31.0
Frequency (MHz)	19.2	19.3	19.3	19.3	19.2	19.3	19.3	19.3
CDMA 1 Tx slot	29.74	30.08	30.20	31.00	29.74	31.08	31.20	33.00
ISDPB 1 Tx slot	29.73	30.09	30.01	31.00	29.73	31.08	31.01	33.00
ISDPB 2 Tx slot	29.68	29.71	29.60	30.00	29.68	29.71	29.60	30.00
ISDPB 3 Tx slot	24.82	25.03	25.00	26.00	23.96	23.77	23.74	21.74
ISDPB 4 Tx slot	24.78	24.89	24.88	24.00	24.78	24.88	24.88	25.00
EDGE 1 Tx slot	25.00	25.07	25.08	27.00	18.00	18.07	18.08	18.00
EDGE 2 Tx slot	22.72	22.84	22.83	24.00	18.72	18.84	18.83	18.00
EDGE 3 Tx slot	20.87	20.99	20.91	22.00	18.81	18.89	18.82	19.74
EDGE 4 Tx slot	19.71	19.80	19.81	21.00	18.71	18.80	18.81	18.00

WCDMA II And DSIS

Band	WCDMA II			Tx Power Limit	WCDMA IV			Tx Power Limit
	Min	Max	Typ		Min	Max	Typ	
TX Channel	30.02	34.00	30.00	31.00	31.12	34.10	31.10	31.10
TX Channel	30.02	34.00	30.00	31.00	31.12	34.10	31.10	31.10
Frequency (MHz)	19.2	19.3	19.3	19.3	17.2	17.3	17.3	17.3
ISDPB Rel B1	21.91	22.04	21.96	23.00	22.02	22.49	22.41	23.50
ISDPB Rel B1	21.96	22.00	22.02	23.00	22.01	22.03	22.00	23.00
ISDPB Rel B1	ISDPB Subslot 1	20.36	20.70	20.00	21.43	21.46	21.38	22.50
ISDPB Rel B1	ISDPB Subslot 2	20.81	20.89	20.70	22.00	21.43	21.58	22.86
ISDPB Rel B1	ISDPB Subslot 4	20.24	20.59	20.21	21.50	21.14	20.92	20.00
ISDPB Rel B1	DC-HSDPA Subslot 1	20.88	20.81	20.88	22.00	21.84	21.42	22.00
ISDPB Rel B1	DC-HSDPA Subslot 2	20.85	20.85	21.00	22.00	21.00	21.50	21.50
ISDPB Rel B1	DC-HSDPA Subslot 3	19.90	20.24	20.36	21.50	20.84	20.88	20.88
ISDPB Rel B1	DC-HSDPA Subslot 4	20.31	20.32	20.31	21.50	20.89	20.84	22.00
ISDPB Rel B1	HS-PA Subslot 1	21.08	20.90	20.94	22.00	21.00	21.70	21.40
ISDPB Rel B1	HS-PA Subslot 2	19.00	19.00	19.77	20.00	19.00	19.00	20.50
ISDPB Rel B1	HS-PA Subslot 3	19.87	19.88	19.86	21.00	20.88	20.52	21.80
ISDPB Rel B1	HS-PA Subslot 4	19.24	19.29	19.44	20.00	19.60	19.53	20.50
ISDPB Rel B1	HS-PA Subslot 5	20.98	21.00	20.97	22.00	21.33	21.80	22.00



GERM1001 Antt DS1.3 Default

	Power Average Power (dBm)			Y-Limit	Frame Average Power (dBm)			Tempo Limit
TX Channel	157	161	161.3	Limit	142	146.5	147	Limit
Frequency (MHz)	21.92	23.04	23.93	30.00	19.81	19.94	19.73	21.00
GERM I Tx limit	28.78	28.80	28.82	30.00	19.76	19.80	19.82	21.00
GERM II Tx limit	23.45	23.41	23.35	27.00	19.65	19.69	19.38	21.00
GERM III Tx limit	23.84	23.82	23.58	25.00	19.88	19.38	19.32	20.74
EDGE I Tx limit	24.33	24.33	24.09	24.00	20	19.76	19.38	21.00
EDGE I Tx limit	24.33	24.33	24.17	26.00	19.38	19.32	19.17	17.00
EDGE II Tx limit	21.89	21.72	21.83	23.00	19.89	19.72	19.83	17.00
EDGE III Tx limit	19.95	19.80	19.85	21.00	19.84	19.24	19.82	19.14
EDGE IV Tx limit	18.60	18.48	18.30	20.00	19.80	19.68	19.80	17.00

WCDMA II Antt DS1.3 Default

	WCDMA II			Y-Limit	WCDMA IV			Tempo Limit
Band	9000	9600	9600	Limit	1312	1410	1512	Limit
TX Channel	9000	9600	9600	37.00	1607	1638	1708	37.00
Frequency (MHz)	2192.4	23.38	23.93	24.50	1727.4	1727.8	1727.8	24.50
WCDM II Antt DS1.3 Default	23.43	23.40	23.41	24.50	23.39	23.34	23.50	24.50
WCDM II Antt DS1.3 Default	22.47	22.43	22.30	21.00	22.48	22.52	22.28	21.00
WCDM II Antt DS1.3 Default	22.49	22.48	22.41	23.00	22.34	22.32	22.54	23.00
WCDM II Antt DS1.3 Default	21.38	21.65	21.81	23.00	21.88	22.83	21.81	23.00
WCDM II Antt DS1.3 Default	22.45	22.46	22.43	23.00	22.36	22.50	22.51	23.00
WCDM II Antt DS1.3 Default	22.65	22.61	22.44	23.00	22.47	22.55	22.54	23.00
WCDM II Antt DS1.3 Default	21.36	21.86	21.36	23.00	21.94	22.80	21.89	23.00
WCDM II Antt DS1.3 Default	21.64	21.81	21.88	23.00	21.82	22.03	21.87	23.00
WCDM II Antt DS1.3 Default	22.48	22.40	22.48	23.00	22.38	22.50	22.50	23.00
WCDM II Antt DS1.3 Default	23.43	23.43	23.42	21.00	23.38	23.39	23.28	21.00
WCDM II Antt DS1.3 Default	21.43	21.42	21.37	22.00	21.36	21.54	21.58	22.00
WCDM II Antt DS1.3 Default	22.48	22.47	22.46	21.50	22.46	22.58	22.47	21.50
WCDM II Antt DS1.3 Default	22.49	22.50	22.44	23.50	22.34	22.59	22.44	23.50



CDMA2000 1X Rev E Release

Channel	Power Average Power (dBm)			Tx Power Limit	Frame Average Power (dBm)			Tx Power Limit
	Min	Max	Typ		Min	Max	Typ	
TX Channel	126	136	131	201	146	156	151	201
Frequency (MHz)	254.2	254.6	254.4	33.0	254.2	254.6	254.4	33.0
CDMA 1 Tx rate	23.79	32.70	32.00	33.00	23.79	32.70	32.00	33.00
ISDPB 1 Tx rate	23.30	32.20	32.32	33.00	23.30	32.20	32.32	33.00
ISDPB 2 Tx rate	23.13	32.03	32.00	33.00	23.13	32.03	32.00	33.00
ISDPB 3 Tx rate	27.63	27.23	27.15	28.50	23.37	22.37	22.50	24.24
ISDPB 4 Tx rate	22.08	26.58	26.00	27.50	22.08	26.58	26.00	27.50
EDGE 1 Tx rate	26.33	26.17	26.12	27.50	17.33	17.17	17.10	18.50
EDGE 2 Tx rate	23.30	23.12	23.01	24.50	17.30	17.12	17.01	18.50
EDGE 3 Tx rate	23.12	23.12	23.06	22.50	17.01	17.06	17.00	18.24
EDGE 4 Tx rate	20.33	20.28	20.19	21.50	17.33	17.28	17.19	18.50

WCDMA V Rev E Release

Band	WCDMA V			Tx Power Limit
	Min	Max	Typ	
TX Channel	41.52	41.02	42.03	201
TX Channel	44.02	44.02	44.02	201
Frequency (MHz)	2594	2594	2594	33.0
ISDPB Rev B1	24.24	24.43	24.25	25.50
ISDPB Rev B1	24.30	24.40	24.27	25.50
ISDPB Rev B1	23.32	23.29	23.41	24.50
ISDPB Rev B1	23.34	23.41	23.27	24.50
ISDPB Rev B1	22.25	22.34	22.24	24.50
ISDPB Rev B1	23.03	22.01	22.07	24.50
ISDPB Rev B1	23.43	23.44	23.26	24.50
ISDPB Rev B1	22.65	22.61	22.55	24.50
ISDPB Rev B1	22.90	22.66	22.86	24.50
ISDPB Rev B1	22.75	22.89	22.67	24.50
ISDPB Rev B1	23.30	23.40	23.28	24.50
ISDPB Rev B1	21.42	21.40	21.30	23.50
ISDPB Rev B1	22.32	22.55	22.28	23.50
ISDPB Rev B1	21.49	21.44	21.23	23.50
ISDPB Rev B1	21.32	21.42	21.26	24.50



Band 38 Ant0 DS14(only on channel required)

Table with columns: BWP (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Turn-up time, MPR. Includes sub-tables for Channel, Frequency (MHz), and various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM.

Band 41 Ant0 DS14 (2.6G Band)

Table with columns: BWP (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Turn-up time, MPR. Includes sub-tables for Channel, Frequency (MHz), and various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM.

Band 42 Ant0 DS14 FCC Part27Q

Table with columns: BWP (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Turn-up time, MPR. Includes sub-tables for Channel, Frequency (MHz), and various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM.



CDMA2000 Rev1 CS1A Outlink

Channel	Per-Average Power (dBm)			Frame-Average Power (dBm)		
	TX Channel	Y-Down	Y-Up	Y-Down	Y-Up	Y-Down
Frequency (MHz)	254.2	254.4	254.6	254.2	254.4	254.6
CDMA 1 Tx limit	23.75	23.75	23.75	23.75	23.75	23.75
ISPPM 1 Tx limit	23.33	23.33	23.33	23.33	23.33	23.33
ISPPM 2 Tx limit	23.00	23.00	23.00	23.00	23.00	23.00
ISPPM 3 Tx limit	22.40	22.40	22.40	22.40	22.40	22.40
EDGE 1 Tx limit	22.36	22.36	22.36	22.36	22.36	22.36
EDGE 2 Tx limit	22.43	22.43	22.43	22.43	22.43	22.43
EDGE 3 Tx limit	22.92	22.92	22.92	22.92	22.92	22.92
EDGE 4 Tx limit	20.51	20.42	20.27	21.50	17.42	17.27

WCDMA V-Art CS1A

Band	WCDMA V		
	TX Channel	Y-Down	Y-Up
Frequency (MHz)	254.2	254.4	254.6
ISPPM 1 Tx limit	21.42	21.41	21.43
ISPPM 2 Tx limit	21.50	21.51	21.50
ISPPM 3 Tx limit	20.36	20.33	20.30
ISPPM 4 Tx limit	20.39	20.33	20.33
ISPPM 5 Tx limit	20.11	20.25	20.16
ISPPM 6 Tx limit	20.01	20.59	20.24
ISPPM 7 Tx limit	20.88	20.50	20.53
ISPPM 8 Tx limit	20.55	20.57	20.46
ISPPM 9 Tx limit	20.20	20.13	20.16
ISPPM 10 Tx limit	20.12	20.21	20.16
ISPPM 11 Tx limit	20.87	20.50	20.56
ISPPM 12 Tx limit	19.69	19.79	19.71
ISPPM 13 Tx limit	19.81	19.70	19.42
ISPPM 14 Tx limit	19.24	19.48	19.44
ISPPM 15 Tx limit	20.59	20.48	20.00



GERM1007 Anti DSI4 Default

i	QoS/MSI	Power Average Power (dBm)			Tx Power Limit	Frame Average Power (dBm)			Tx Power Limit
		Min	Max	Typ		Min	Max	Typ	
1	TX Channel	312	361	310	310	312	361	310	310
1	Frequency (MHz)	25.74	30.08	30.20	31.00	25.74	31.08	31.20	33.00
1	GERM1 Tx sub	29.73	30.50	30.01	31.00	29.73	31.08	31.01	33.00
1	GERM2 Tx sub	31.08	30.71	31.00	30.00	31.08	31.73	31.00	33.00
1	GERM3 Tx sub	24.82	25.03	25.00	25.00	23.98	23.77	23.74	21.74
1	GERM4 Tx sub	25.78	25.89	25.88	25.00	26.78	26.88	26.88	25.00
1	EDGE-1 Tx sub	25.00	25.07	25.08	27.00	18.00	18.87	18.00	18.00
1	EDGE-2 Tx sub	22.72	22.84	22.83	24.00	18.72	18.84	18.83	18.00
1	EDGE-3 Tx sub	20.87	20.96	20.91	22.00	18.81	18.89	18.82	17.74
1	EDGE-4 Tx sub	19.71	19.80	19.81	21.00	18.71	18.80	18.81	18.00

WCDMA II Anti DSI4 Default

i	Band	WCDMA II			Tx Power Limit	WCDMA IV			Tx Power Limit
		Min	Max	Typ		Min	Max	Typ	
1	TX Channel	950	960	958	1512	1410	1512	1512	
1	Rx Channel	960	960	960	1607	1608	1708	1708	
1	Frequency (MHz)	192.4	192.4	192.4	172.4	172.4	172.6	172.6	
1	WCDM II sub	24.43	24.46	24.41	24.50	24.43	24.43	23.50	
1	WCDM II sub	24.48	24.47	24.43	24.50	24.50	24.50	24.40	
1	WCDM II sub	23.76	23.70	23.70	24.00	23.91	23.90	24.00	
1	WCDM II sub	23.25	23.29	23.28	24.50	23.42	23.48	23.40	
1	WCDM II sub	22.44	22.37	22.36	24.00	22.00	22.00	24.00	
1	WCDM II sub	22.80	22.88	22.82	24.00	23.00	23.01	23.00	
1	WCDM II sub	23.37	23.30	23.31	24.00	23.50	23.50	24.00	
1	WCDM II sub	23.25	23.37	23.41	24.00	23.00	23.00	23.00	
1	WCDM II sub	22.81	22.75	22.81	24.00	22.70	22.87	22.87	
1	WCDM II sub	22.60	22.87	22.78	24.00	22.00	22.00	24.00	
1	WCDM II sub	22.08	22.01	22.09	24.00	23.18	23.00	23.00	
1	WCDM II sub	23.00	23.00	23.00	25.00	21.14	21.00	21.00	
1	WCDM II sub	21.88	21.95	21.83	23.50	22.88	22.58	21.50	
1	WCDM II sub	21.00	21.00	21.00	24.00	21.11	21.00	24.00	
1	WCDM II sub	22.00	22.00	22.00	24.50	23.08	23.01	23.04	



GERM1007 Antt DS4 Default

	Power Average Power (dBm)			Time-up Limit	Power Average Power (dBm)			Time-up Limit
TX Channel	157	161	161.5	30.00	157	161	161.5	30.00
Frequency (MHz)	219.2	219.24	219.3	30.00	19.81	19.84	19.73	21.00
GERM I Tx limit	28.78	28.80	28.82	30.00	19.76	19.80	19.82	21.00
GERM II Tx limit	23.45	23.41	23.35	27.00	18.65	18.68	18.38	21.00
GERM III Tx limit	23.84	23.82	23.58	25.00	18.88	18.38	18.32	20.74
EDGE I Tx limit	24.24	24.28	24.09	24.00	26.1	19.76	18.38	21.00
EDGE I Tx limit	24.33	24.32	24.17	26.00	19.38	19.32	18.17	17.00
EDGE II Tx limit	21.89	21.72	21.83	23.00	18.89	18.72	18.83	17.00
EDGE III Tx limit	19.95	19.80	19.85	21.00	18.84	18.24	18.82	18.14
EDGE IV Tx limit	18.80	18.88	18.80	20.00	18.80	18.88	18.80	17.00

WCDMA II Antt DS4 Default

	WCDMA II			Time-up Limit	WCDMA IV			Time-up Limit
Band	800	840	845	30.00	1312	1410	1512	30.00
TX Channel	800	840	845	30.00	1312	1410	1512	30.00
TX Channel	800	840	845	30.00	1312	1410	1512	30.00
Frequency (MHz)	219.2	219.24	219.3	30.00	1717.4	1717.8	1717.6	24.50
WCDMA II Antt DS4 Default	23.32	23.38	23.34	24.50	23.34	23.48	23.42	24.50
WCDMA II Antt DS4 Default	23.43	23.40	23.41	24.50	23.39	23.54	23.50	24.50
WCDMA II Antt DS4 Default	22.47	22.43	22.30	21.00	22.48	22.52	22.28	22.50
WCDMA II Antt DS4 Default	22.49	22.48	22.41	21.00	22.34	22.32	22.54	23.86
WCDMA II Antt DS4 Default	21.88	21.81	21.81	21.00	21.88	22.03	21.81	23.00
WCDMA II Antt DS4 Default	22.45	22.46	22.43	21.00	22.36	22.50	22.51	23.86
WCDMA II Antt DS4 Default	22.65	22.61	22.44	21.00	22.47	22.55	22.54	23.86
WCDMA II Antt DS4 Default	21.96	21.86	21.98	21.00	21.94	22.00	21.89	23.86
WCDMA II Antt DS4 Default	21.94	21.81	21.88	21.00	21.92	22.03	21.87	23.86
WCDMA II Antt DS4 Default	22.49	22.40	22.48	21.00	22.38	22.50	22.50	23.86
WCDMA II Antt DS4 Default	23.43	23.43	23.42	21.00	23.38	23.50	23.28	22.50
WCDMA II Antt DS4 Default	21.45	21.42	21.37	22.50	21.36	21.54	21.58	22.80
WCDMA II Antt DS4 Default	22.48	22.41	22.46	21.50	22.46	22.58	22.41	21.50
WCDMA II Antt DS4 Default	22.49	22.50	22.44	21.50	22.34	22.59	22.44	23.86



GERBOS Aved DSIS Default

Channel	Band Average Power (dBm)			Tx Power Limit	Frame Average Power (dBm)			Tx Power Limit
	150	180	201		148	189	201	
TX Channel	124.2	116.1	111.8	150	111.2	101.8	101.8	
Frequency (MHz)	23.79	32.70	32.09	33.50	23.19	23.19	23.19	
GERBOS 1 Tx slot	22.30	22.20	22.32	23.05	23.20	23.32	24.30	
GERBOS 2 Tx slot	22.12	22.07	22.00	23.05	22.11	22.07	22.00	
GERBOS 3 Tx slot	22.62	22.23	22.15	23.50	23.37	22.37	24.24	
EDGE 1 Tx slot	22.08	22.08	22.08	22.50	22.02	22.08	22.08	
EDGE 1 Tx slot	20.33	20.17	20.12	21.50	17.33	17.17	18.50	
EDGE 2 Tx slot	20.30	20.12	20.01	24.50	17.30	17.12	18.01	
EDGE 3 Tx slot	20.27	20.12	20.04	22.50	17.01	17.04	18.24	
EDGE 4 Tx slot	20.33	20.28	20.19	21.50	17.33	17.28	18.50	

WCDMA V Aved DSIS Default

Band	WCDMA V			Tx Power Limit
	4152	4152	4233	
TX Channel	4420	4460	4460	45.00
Frequency (MHz)	20.94	30.91	34.91	
ISPPF Rel B1	24.24	24.43	24.25	25.50
ISPPF Rel B1	24.30	24.40	24.27	25.50
ISPPF Rel B1	23.32	23.29	23.41	24.50
ISPPF Rel B1	23.34	23.41	23.27	24.50
ISPPF Rel B1	22.25	22.34	22.24	24.50
ISPPF Rel B1	22.03	22.01	22.07	24.50
ISPPF Rel B1	22.43	22.44	22.28	24.50
ISPPF Rel B1	22.65	22.61	22.25	24.50
ISPPF Rel B1	22.30	22.66	22.80	24.50
ISPPF Rel B1	22.75	22.89	22.07	24.50
ISPPF Rel B1	22.30	22.40	22.28	24.50
ISPPF Rel B1	22.42	22.01	22.30	25.50
ISPPF Rel B1	22.32	22.55	22.28	25.50
ISPPF Rel B1	22.49	22.44	22.23	25.50
ISPPF Rel B1	21.32	21.42	21.28	24.50



Band 38 Ant0 DS15(only on channel required)

Table with columns: Biv (MHz), Modulation, RB Size, RB Offset, Power, Turn-up time, MPR. Includes sub-tables for Channel, Frequency (MHz), and various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM.

Band 41 Ant0 DS15 (2.6G Band)

Table with columns: Biv (MHz), Modulation, RB Size, RB Offset, Power, Turn-up time, MPR. Includes sub-tables for Channel, Frequency (MHz), and various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM.

Band 42 Ant0 DS15 FCC Part27Q

Table with columns: Biv (MHz), Modulation, RB Size, RB Offset, Power, Turn-up time, MPR. Includes sub-tables for Channel, Frequency (MHz), and various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM.



GSM900 Airtel CBR						
Channel	Power Average Power (dBm)			Frame Average Power (dBm)		
TX Channel	128	136	144	Y-Low	148	156
Frequency (MHz)	254.2	262.4	270.6	Limit	274.2	282.4
GSM 1 Tx limit	20.11	20.01	20.26	31.50	21.11	21.28
ISDPB 1 Tx limit	20.09	20.21	20.13	31.50	20.09	21.21
ISDPB 2 Tx limit	21.62	21.23	21.13	28.50	21.61	21.13
ISDPB 3 Tx limit	25.74	25.55	25.38	28.50	21.48	21.28
EDGE 1 Tx limit	24.48	24.27	24.38	28.50	21.48	21.18
EDGE 1 Tx limit	26.32	26.45	26.01	27.50	17.32	17.21
EDGE 2 Tx limit	23.43	23.42	23.21	24.50	17.43	17.42
EDGE 3 Tx limit	23.92	23.79	23.62	22.50	17.67	17.52
EDGE 4 Tx limit	20.51	20.42	20.27	21.50	17.51	17.27

WCDMA V Airtel CBR			
Band	WCDMA V		
TX Channel	4132	4162	4232
TX Channel	4402	4462	4612
Frequency (MHz)	2154	2174	2412
ISDPB Max 01	20.52	20.52	20.44
ISDPB Max 01	20.48	20.71	20.48
ISDPB Max 01	19.54	19.39	19.72
ISDPB Max 01	18.85	19.39	18.82
ISDPB Max 01	18.26	18.39	18.48
ISDPB Max 01	18.95	19.43	19.45
ISDPB Max 01	19.73	19.85	19.88
ISDPB Max 01	19.75	19.80	19.85
ISDPB Max 01	19.23	19.04	19.14
ISDPB Max 01	19.31	19.39	19.02
ISDPB Max 01	19.79	19.79	19.58
ISDPB Max 01	17.62	17.22	18.02
ISDPB Max 01	18.82	18.85	18.82
ISDPB Max 01	17.28	17.27	17.42
ISDPB Max 01	19.67	19.58	19.70



GERM100T And DSIS Default

Band	Power Average Power (dBm)			Y-Limit	Power Average Power (dBm)			Y-Limit
TX Channel	912	916	910	Limit	912	916	910	Limit
Frequency (MHz)	19.74	30.08	19.74	31.00	20.74	21.08	21.20	22.00
ISPPF 1 Tx sub	20.73	30.00	30.01	31.00	20.73	21.08	21.01	22.00
ISPPF 2 Tx sub	20.68	29.71	29.60	30.00	20.68	20.73	20.60	21.00
ISPPF 3 Tx sub	24.82	25.03	25.00	26.00	23.88	23.77	23.74	24.74
ISPPF 4 Tx sub	24.78	24.89	24.88	25.00	24.78	24.88	24.88	25.00
EDGE-1 Tx sub	25.00	25.07	25.08	27.00	18.00	18.07	18.08	18.00
EDGE-2 Tx sub	22.72	22.84	22.83	24.00	18.72	18.84	18.83	18.00
EDGE-3 Tx sub	20.87	20.96	20.91	22.00	18.81	18.88	18.82	19.74
EDGE-4 Tx sub	19.71	19.80	19.81	21.00	18.71	18.80	18.81	18.00

WCDMA II And DSIS

Band	WCDMA II			Y-Limit	WCDMA IV			Y-Limit
TX Channel	912	916	910	Limit	1312	1410	1510	Limit
Frequency (MHz)	19.74	30.08	19.74	31.00	17.74	17.08	17.24	17.24
ISPPF Rel B1	21.81	22.04	21.96	23.00	22.02	22.40	22.44	23.50
ISPPF Rel B1	21.88	22.00	22.02	23.00	22.81	22.83	22.80	23.50
ISPPF Rel B1	20.96	20.70	20.76	22.00	21.43	21.46	21.38	22.50
ISPPF Rel B1	20.81	20.89	20.76	22.00	21.43	21.37	21.38	22.50
ISPPF Rel B1	20.74	20.59	20.21	21.50	21.14	20.92	20.87	22.00
ISPPF Rel B1	20.88	20.81	20.88	22.00	21.84	21.42	21.40	22.50
ISPPF Rel B1	20.85	20.85	21.00	22.00	21.07	21.30	21.30	22.00
ISPPF Rel B1	19.90	20.24	20.36	21.50	20.84	20.88	20.88	22.00
ISPPF Rel B1	20.31	19.92	20.31	21.50	20.89	20.88	20.84	22.00
ISPPF Rel B1	21.08	20.50	20.94	22.00	21.05	21.70	21.40	22.50
ISPPF Rel B1	19.90	19.00	19.77	20.00	19.05	19.03	18.60	20.50
ISPPF Rel B1	19.87	19.88	19.88	21.00	20.88	20.52	20.39	21.50
ISPPF Rel B1	19.74	19.80	19.84	20.00	18.63	18.53	18.62	20.50
ISPPF Rel B1	20.98	21.00	20.87	22.00	21.33	21.80	21.57	22.50



GERM1007 And DSIS Default

	Power Average Power (dBm)			Y-Limit	Frame Average Power (dBm)			Time-avg Limit
TX Channel	172	181	191	Limit	192	191	191	Limit
Frequency (MHz)	21.92	23.04	24.17	30.00	19.01	19.04	19.73	21.00
GERM1 TX limit	28.78	28.80	28.82	30.00	19.76	19.80	19.82	21.00
GERM2 TX limit	23.45	23.41	23.35	27.00	18.45	18.48	18.38	21.00
GERM3 TX limit	23.84	23.82	23.58	25.00	19.58	19.38	19.32	20.74
EDGE-1 TX limit	24.33	24.33	24.17	26.00	19.38	19.32	19.17	17.00
EDGE-2 TX limit	21.89	21.72	21.83	23.00	15.89	15.72	15.83	17.00
EDGE-3 TX limit	19.95	19.80	19.85	21.00	15.84	15.74	15.82	16.74
EDGE-4 TX limit	18.85	18.88	18.80	20.00	15.80	15.88	15.80	17.00

WCDMA II And DSIS

	WCDMA II			Y-Limit	WCDMA IV			Time-avg Limit
Band	502	503	503	Limit	1312	1413	1513	Limit
TX Channel	502	503	503	37.00	16.97	16.98	17.98	37.00
Frequency (MHz)	1852.4	1853	1853.8	19.50	17.24	17.24	17.24	19.50
SCPP Ref B1	18.29	18.46	18.49	19.50	17.47	17.42	17.48	19.50
SCPP Ref B2	18.49	18.50	18.47	19.50	17.48	17.52	17.50	19.50
SCPP Ref B3	17.52	17.29	17.52	18.00	16.06	16.06	16.49	17.00
SCPP Ref B4	17.49	17.31	17.49	18.50	16.09	16.07	16.54	17.00
SCPP Ref B5	17.26	16.31	16.44	18.00	15.98	15.98	16.00	17.00
SCPP Ref B6	17.26	17.14	17.11	18.00	15.95	16.01	16.09	17.00
SCPP Ref B7	17.45	17.67	17.56	18.50	16.57	16.64	16.59	17.00
SCPP Ref B8	17.57	17.60	17.56	18.50	16.47	16.52	16.73	17.00
SCPP Ref B9	17.26	16.96	17.13	18.00	15.94	16.16	16.13	17.00
SCPP Ref B10	17.11	17.09	17.05	18.00	15.94	16.23	16.11	17.00
SCPP Ref B11	17.26	17.49	17.39	18.50	16.57	16.76	16.60	17.00
SCPP Ref B12	15.51	15.57	15.49	16.50	14.31	14.52	14.52	16.50
SCPP Ref B13	16.51	16.41	16.36	17.50	13.43	13.59	13.72	16.50
SCPP Ref B14	17.46	17.63	17.46	18.50	14.55	14.81	14.61	18.50
SCPP Ref B15	17.64	17.52	17.51	18.50	16.34	16.37	16.57	17.00



4CA DL

Configure	PCC										SCC1					SCC2					SCC3			Power		
	Band	Ant	BW (MHz)	UL		Mod.	ULR RB	ULR QPSK	DL Antenna Configuration	Band	BW (MHz)	DL		DL Antenna Configuration	Band	BW (MHz)	DL		DL Antenna Configuration	Band	BW (MHz)	DL		DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)
				Freq (MHz)	Channel							Freq (MHz)	Channel				Freq (MHz)	Channel				Freq (MHz)	Channel			
CA_2A-4A-7C	Band 2	Ant3	20M	1880	1880	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	24.59	24.63
	Band 2	Ant4	20M	1880	1880	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	23.78	23.77
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		21.85	21.87
	Band 4	Ant3	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		24.67	24.66
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		23.11	23.25
	Band 4	Ant5	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		22.95	23.14
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		Band 4	20M	2132.5	2175	4x4MMMO	22.03	22.11
CA_5A-7A-6A-65A	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		Band 4	20M	2132.5	2175	4x4MMMO	24.49	24.66
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		Band 4	20M	2132.5	2175	4x4MMMO	24.55	24.67
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 2	20M	1880	900		Band 4	20M	2132.5	2175	4x4MMMO	24.43	24.53
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	22.03	22.11
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	24.45	24.66
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	24.56	24.67
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	24.32	24.63
CA_7C-6A-65A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	24.29	24.39
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	24.92	24.22
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	21.82	21.89
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	24.52	24.68
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	23.38	23.38
	Band 66	Ant5	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	23.11	23.16
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	22.04	22.11
CA_5A-7C-65A	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	24.52	24.66
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	24.46	24.57
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 66	20M	2155	66886	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	24.62	24.53
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	21.71	21.89
	Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	24.56	24.68
	Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	23.20	23.39
	Band 66	Ant5	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 66	5M	2197.5	67311	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	23.15	23.16
CA_5A-7C-65A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	22.03	22.11
	Band 7	Ant3	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	24.56	24.66
	Band 7	Ant4	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	24.36	24.67
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MMMO	24.42	24.53
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	24.38	24.59
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MMMO	Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	24.17	24.22
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	21.79	21.89
Band 66	Ant3	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	24.49	24.68	
Band 66	Ant4	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	23.28	23.38	
Band 66	Ant5	20M	1745	132322	QPSK	1	0	4x4MMMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MMMO	Band 7	20M	2674.8	3298	4x4MMMO	22.99	23.16	



SPORTEL A.B.

Full Power level/Default Power level for 5G NR Main PA

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
n5 Ant0								
				16800	18700	18900		
Channel								
	PI2 BPSK	1	1	24.48	24.52	24.53	25.5	0.0
20	PI2 BPSK	1	83	24.37	24.41	24.24	25.5	0.0
30	PI2 BPSK	1	104	24.26	24.40	24.33	25.0	0.5
50	PI2 BPSK	50	5	24.17	24.06	24.09	25.0	0.5
20	PI2 BPSK	90	28	24.13	23.99	23.96	25.5	0.0
30	PI2 BPSK	90	99	24.21	24.34	24.29	25.0	0.5
20	PI2 BPSK	180	0	23.85	23.53	23.53	25.0	0.5
20	QPSK	1	1	24.46	24.50	24.53	25.5	0.0
20	QPSK	1	93	24.37	24.55	24.48	25.5	0.0
20	QPSK	1	104	24.46	24.53	24.36	25.5	0.0
20	QPSK	90	0	23.48	23.23	23.92	24.5	1.0
20	QPSK	90	26	23.57	23.81	23.58	25.0	0.8
20	QPSK	90	56	23.67	23.85	23.59	24.5	1.0
20	QPSK	180	0	22.55	22.61	22.65	24.5	1.0
20	HSQAM	1	1	23.50	23.43	23.50	24.5	1.0
20	HSQAM	1	1	22.71	22.75	22.7	24.5	1.0
20	HSQAM	1	1	20.12	20.04	20.16	21.0	4.5
Channel								
	Frequency [MHz]	16800	18700	18900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	83.5	836.5	841.5			Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.40	24.60	24.47	25.5	0.0
Channel								
	Frequency [MHz]	16800	18700	18900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	80	836.5	844			Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.46	24.55	24.54	25.5	0.0
Channel								
	Frequency [MHz]	16800	18700	18900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	826.5	836.5	840.5			Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.42	24.63	24.40	25.5	0.0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
n7 Ant0								
				50500	60700	50900		
Channel								
	PI2 BPSK	1	1	22.12	22.14	22.92	24.0	0.0
50	PI2 BPSK	1	135	22.07	22.13	22.92	24.0	0.0
90	PI2 BPSK	1	266	22.01	22.11	22.17	24.0	0.0
50	PI2 BPSK	136	0	21.67	21.73	21.84	23.5	0.5
50	PI2 BPSK	136	88	22.08	22.23	22.08	24.0	0.0
50	PI2 BPSK	136	135	21.84	21.79	21.86	23.5	0.5
50	PI2 BPSK	270	0	21.68	21.78	21.84	23.5	0.5
50	QPSK	1	1	22.16	22.26	22.30	24.0	0.0
50	QPSK	1	135	22.05	22.15	22.02	24.0	0.0
50	QPSK	1	266	22.03	22.12	22.05	24.0	0.0
50	QPSK	136	0	21.07	21.13	21.11	23.0	1.0
50	QPSK	136	88	22.07	22.17	22.01	24.0	0.8
50	QPSK	136	135	20.81	20.91	20.80	23.0	1.0
50	QPSK	270	0	20.90	21.00	20.96	23.0	1.0
50	HSQAM	1	1	21.14	21.20	21.16	23.0	1.0
50	HSQAM	1	1	18.76	18.63	18.52	21.0	1.0
50	HSQAM	1	1	17.88	17.76	17.82	18.5	4.5
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	250	258	255			Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.84	22.11	21.86	24.0	0.0
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	251.5	255	252.5			Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.88	22.08	21.97	24.0	0.0
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	252.5	255	252.5			Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.83	22.13	21.84	24.0	0.0
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	253	255	250			Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.8	22.03	21.91	24.0	0.0
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	250.7	255	252.3			Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.17	22.00	21.96	24.0	0.0
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	250.9	255	250.9			Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.16	22.24	22.04	24.0	0.0
Channel								
	Frequency [MHz]	50500	60700	50900			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	250.9	255	250.9			Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.07	22.00	22.08	24.0	0.8

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
n66 Ant0								
				346000	349000	350000		
Channel								
	PI2 BPSK	1	1	22.69	22.63	22.62	24.5	0.0
40	PI2 BPSK	1	108	22.71	22.66	22.59	24.5	0.0
40	PI2 BPSK	1	214	22.54	22.75	22.72	24.5	0.0
40	PI2 BPSK	108	0	22.11	22.16	22.19	24.0	0.5
40	PI2 BPSK	108	54	22.67	22.62	22.63	24.5	0.0
40	PI2 BPSK	108	108	22.37	22.30	22.41	24.0	0.5
40	PI2 BPSK	216	0	22.13	22.13	22.24	24.0	0.5
40	QPSK	1	1	22.66	22.74	22.72	24.5	0.0
40	QPSK	1	108	22.59	22.52	22.76	24.5	0.0
40	QPSK	1	214	22.62	22.63	22.84	24.5	0.0
40	QPSK	108	0	21.70	21.64	21.77	23.5	1.0
40	QPSK	108	54	22.65	22.65	22.63	24.5	0.8
40	QPSK	108	108	21.93	21.84	21.86	23.5	1.0
40	QPSK	216	0	22.51	22.55	22.63	24.5	1.0
40	HSQAM	1	1	21.66	21.58	21.63	23.0	1.0
40	HSQAM	1	1	20.11	20.06	20.16	21.0	1.0
40	HSQAM	1	1	18.97	18.90	18.10	20.0	4.5
Channel								
	Frequency [MHz]	346000	349000	350000			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	170	174	173			Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.66	22.59	22.59	24.5	0.0
Channel								
	Frequency [MHz]	346000	349000	350000			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	170	174	170			Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.58	22.70	22.80	24.5	0.0
Channel								
	Frequency [MHz]	346000	349000	350000			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	171.5	174	172.5			Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.57	22.48	22.75	24.5	0.0
Channel								
	Frequency [MHz]	346000	349000	350000			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	171.5	174	171.5			Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.54	22.70	22.75	24.5	0.0
Channel								
	Frequency [MHz]	346000	349000	350000			Turn-up limit (dBm)	MPR (dB)
	Frequency [MHz]	172.3	174	172.3			Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.07	22.71	22.71	24.5	0.0



n38 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. [dBm]	Power Middle Ch. / Freq. [dBm]	Power High Ch. / Freq. [dBm]	Tx-to-tp [dB]	MFR [dB]
Channel								
	Frequency [MHz]			5190.0	5190.0	5190.0		
40	PID-BPSK	1	1	23.00	23.02	23.02		
40	PID-BPSK	1	93	21.83	21.80	21.79	23.5	0.0
40	PID-BPSK	1	104	21.81	21.80	21.81		
40	PID-BPSK	30	0	21.42	21.42	21.43	23.0	0.5
40	PID-BPSK	30	26	21.74	21.72	21.85	23.5	0.0
40	PID-BPSK	30	56	21.66	21.76	21.64		
40	PID-BPSK	100	0	21.23	21.27	21.32	23.0	0.5
40	QPSK	1	1	21.98	22.04	21.85		
40	QPSK	1	53	21.90	21.88	21.84	23.5	0.0
40	QPSK	1	104	21.88	21.87	21.88		
40	QPSK	30	0	20.83	20.87	20.97	22.5	1.0
40	QPSK	30	39	21.85	21.86	21.87	23.5	0.0
40	QPSK	30	66	20.73	20.67	20.74	22.5	1.0
40	QPSK	100	0	20.67	20.76	20.72		
40	AEQAM	1	1	21.08	20.92	21.06	22.5	1.0
40	AEQAM	1	1	19.59	19.57	19.87	21.0	2.5
40	AEQAM	1	1	17.58	17.48	17.42	19.5	4.5
Channel								
	Frequency [MHz]			5190.0	5190.0	5200.0	Tx-to-tp [dB]	MFR [dB]
30	QPSK	1	1	22.01	22.05	22.00	23.5	0.0
Channel								
	Frequency [MHz]			5180.0	5190.0	5200.0	Tx-to-tp [dB]	MFR [dB]
30	QPSK	1	1	21.93	22.00	21.74	23.5	0.0

n41 PC3 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. [dBm]	Power Middle Ch. / Freq. [dBm]	Power High Ch. / Freq. [dBm]	Tx-to-tp [dB]	MFR [dB]
Channel								
	Frequency [MHz]			246.01	246.30	246.0		
100	PID-BPSK	1	1	22.02	22.04	22.17		
100	PID-BPSK	1	137	21.59	21.63	21.73	23.5	0.0
100	PID-BPSK	1	271	21.59	21.7	21.65		
100	PID-BPSK	136	0	21.31	21.23	21.22	23.0	0.5
100	PID-BPSK	136	66	21.51	21.50	21.66	23.5	0.0
100	PID-BPSK	136	136	21.61	21.66	21.60		
100	PID-BPSK	270	0	21.24	21.15	21.31	23.0	0.5
100	QPSK	1	1	22.09	22.13	21.93		
100	QPSK	1	137	21.62	21.63	21.81	23.5	0.0
100	QPSK	1	271	21.52	21.63	21.66		
100	QPSK	136	0	20.79	20.86	20.80	22.5	1.0
100	QPSK	136	66	22.05	22.07	21.91	23.5	0.0
100	QPSK	136	136	20.51	20.61	20.66	22.5	1.0
100	QPSK	270	0	21.55	21.48	21.40		
100	AEQAM	1	1	20.53	20.84	20.97	22.5	1.0
100	AEQAM	1	1	19.43	19.41	19.49	21.0	2.5
100	AEQAM	1	1	17.38	17.33	17.40	19.5	4.5
Channel								
	Frequency [MHz]			5020.0	5189.8	5209.0	Tx-to-tp [dB]	MFR [dB]
90	QPSK	1	1	22.04	22.05	21.76	23.5	0.0
Channel								
	Frequency [MHz]			5070.0	5189.8	5209.0	Tx-to-tp [dB]	MFR [dB]
80	QPSK	1	1	21.96	22.03	21.85	23.5	0.0
Channel								
	Frequency [MHz]			5030.0	5189.6	5310.0	Tx-to-tp [dB]	MFR [dB]
70	QPSK	1	1	22.03	22.08	21.82	23.5	0.0
Channel								
	Frequency [MHz]			5050.0	5189.6	5310.0	Tx-to-tp [dB]	MFR [dB]
60	QPSK	1	1	21.98	22.03	21.83	23.5	0.0
Channel								
	Frequency [MHz]			5230.0	5252.9	5255.0	Tx-to-tp [dB]	MFR [dB]
50	QPSK	1	1	21.94	22.02	21.83	23.5	0.0
Channel								
	Frequency [MHz]			5050.0	5190.0	5400.0	Tx-to-tp [dB]	MFR [dB]
40	QPSK	1	1	21.69	22.02	21.80	23.5	0.0
Channel								
	Frequency [MHz]			5020.0	5189.8	5369.0	Tx-to-tp [dB]	MFR [dB]
30	QPSK	1	1	22.01	22.02	21.94	23.5	0.0
Channel								
	Frequency [MHz]			5030.0	5189.8	5369.0	Tx-to-tp [dB]	MFR [dB]
20	QPSK	1	1	22.05	22.05	21.80	23.5	0.0

Par270 n77 PC3 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. [dBm]	Power Middle Ch. / Freq. [dBm]	Power High Ch. / Freq. [dBm]	Tx-to-tp [dB]	MFR [dB]
Channel								
	Frequency [MHz]			300.0	300.0	300.0		
100	PID-BPSK	1	1	21.54	21.63	21.57		
100	PID-BPSK	1	137	21.60	21.65	21.53	23.5	0.0
100	PID-BPSK	1	271	21.58	21.62	21.66		
100	PID-BPSK	136	0	21.42	21.38	21.31	23.0	0.5
100	PID-BPSK	136	66	21.76	21.67	21.74	23.5	0.0
100	PID-BPSK	136	136	21.66	21.76	21.60		
100	PID-BPSK	270	0	21.30	21.35	21.36	23.0	0.5
100	QPSK	1	1	21.62	21.66	21.66		
100	QPSK	1	137	21.66	21.76	21.75	23.5	0.0
100	QPSK	1	271	21.62	21.67	21.68		
100	QPSK	136	0	21.67	21.66	21.70	22.5	1.0
100	QPSK	136	66	21.61	21.65	21.79	23.5	0.0
100	QPSK	136	136	20.84	20.86	20.70	22.5	1.0
100	QPSK	270	0	20.66	20.66	20.67		
100	AEQAM	1	1	20.53	20.84	20.97	22.5	1.0
100	AEQAM	1	1	19.48	19.35	19.85	21.0	2.5
100	AEQAM	1	1	17.67	17.63	17.90	19.5	4.5
Channel								
	Frequency [MHz]			6496.8	6560.0	6623.4	Tx-to-tp [dB]	MFR [dB]
90	QPSK	1	1	21.64	21.66	21.33	23.5	0.0
Channel								
	Frequency [MHz]			6463.4	6560.0	6626.6	Tx-to-tp [dB]	MFR [dB]
80	QPSK	1	1	21.61	21.79	21.85	23.5	0.0
Channel								
	Frequency [MHz]			6400.0	6560.0	6630.0	Tx-to-tp [dB]	MFR [dB]
70	QPSK	1	1	21.61	21.74	21.57	23.5	0.0
Channel								
	Frequency [MHz]			6466.6	6560.0	6633.4	Tx-to-tp [dB]	MFR [dB]
60	QPSK	1	1	21.62	21.76	21.56	23.5	0.0
Channel								
	Frequency [MHz]			3200.0	3000.0	3000.0	Tx-to-tp [dB]	MFR [dB]
50	QPSK	1	1	21.68	21.61	21.60	23.5	0.0
Channel								
	Frequency [MHz]			6400.0	6560.0	6630.0	Tx-to-tp [dB]	MFR [dB]
40	QPSK	1	1	21.66	21.66	21.60	23.5	0.0
Channel								
	Frequency [MHz]			6433.4	6560.0	6666.8	Tx-to-tp [dB]	MFR [dB]
30	QPSK	1	1	21.72	21.80	21.67	23.5	0.0
Channel								
	Frequency [MHz]			3100.0	3200.0	3200.0	Tx-to-tp [dB]	MFR [dB]
20	QPSK	1	1	21.64	21.76	21.67	23.5	0.0



Part27Q n77 PC3 Ant0

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	21.28	21.28			
100	PI2-BPSK	1	137	21.70	21.70		23.5	0.0
100	PI2-BPSK	1	273	21.69	21.69			
100	PI2-BPSK	135	0	21.88	21.88			
100	PI2-BPSK	135	66	21.91	21.91		23.5	0.0
100	PI2-BPSK	135	135	21.94	21.94			
100	PI2-BPSK	270	0	21.92	21.92		23.0	0.5
100	QPSK	1	1	22.04	22.04			
100	QPSK	1	137	22.20	22.20		23.5	0.0
100	QPSK	1	273	21.81	21.81			
100	QPSK	135	0	21.78	21.78			
100	QPSK	135	66	22.00	22.00		23.5	0.0
100	QPSK	135	138	20.99	20.99			
100	QPSK	270	0	21.4	21.4		22.0	1.0
100	16QAM	1	1	21.04	21.04		25.5	1.0
100	16QAM	1	1	19.59	19.59	21.0	25	
100	256QAM	1	1	17.88	17.88	19.0	4.5	
Channel								
Frequency (MHz)								
90	QPSK	1	1	83330	83334	83388	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.75	21.81	21.87	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.70	21.72	21.87	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.63	21.89	21.80	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83300	83324	83488	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	83310	83335	83500	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	305.02	300.91	302		
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.68	21.74	21.80	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.70	21.69	21.68	23.5	0.0

Part27O n78 PC3 Ant0

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	21.8	21.8			
100	PI2-BPSK	1	137	21.58	21.58		23.5	0.0
100	PI2-BPSK	1	273	21.64	21.64			
100	PI2-BPSK	135	0	21.91	21.91		23.5	0.0
100	PI2-BPSK	135	66	21.79	21.79		23.5	0.0
100	PI2-BPSK	135	135	21.87	21.87			
100	PI2-BPSK	270	0	21.74	21.74		23.0	0.0
100	QPSK	1	1	22.04	22.04			
100	QPSK	1	137	22.20	22.20		23.5	0.0
100	QPSK	1	273	21.78	21.78			
100	QPSK	135	0	21.80	21.80		23.5	0.0
100	QPSK	135	66	21.79	21.79		23.5	0.0
100	QPSK	135	138	21.53	21.53			
100	QPSK	270	0	21.3	21.3		23.5	0.0
100	16QAM	1	1	21.05	21.05		25.5	1.0
100	16QAM	1	1	21.09	21.09	22.5	1.0	
100	256QAM	1	1	19.81	19.81	21.5	3.5	
Channel								
Frequency (MHz)								
90	QPSK	1	1	83324	83334	83388	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.82	21.88	21.84	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.85	21.64	21.80	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.65	21.81	21.67	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83300	83324	83488	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	83310	83335	83500	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	305.02	300.91	302		
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.54	21.63	21.59	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.69	21.64	21.64	23.5	0.0

Part27O n78 PC2 Ant0

EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	22.3	22.3			
100	PI2-BPSK	1	137	21.42	21.42		25.0	0.0
100	PI2-BPSK	1	273	22.62	22.62			
100	PI2-BPSK	135	0	22.97	22.97		24.5	0.5
100	PI2-BPSK	135	66	22.24	22.24		25.0	0.0
100	PI2-BPSK	135	135	22.44	22.44		24.5	0.0
100	PI2-BPSK	270	0	21.59	21.59		24.5	0.0
100	QPSK	1	1	23.46	23.46		25.0	0.0
100	QPSK	1	137	23.14	23.14			
100	QPSK	1	273	22.45	22.45		24.5	1.0
100	QPSK	135	0	22.33	22.33		25.0	0.0
100	QPSK	135	66	23.05	23.05		24.5	1.0
100	QPSK	135	138	21.89	21.89		24.5	1.0
100	QPSK	270	0	22.3	22.3		24.5	1.0
100	16QAM	1	1	21.50	21.50		25.0	1.0
100	16QAM	1	1	20.77	20.77	22.5	2.5	
100	256QAM	1	1	18.88	18.88	21.5	4.5	
Channel								
Frequency (MHz)								
90	QPSK	1	1	83324	83334	83388	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.32	23.30	23.34	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.26	23.24	23.18	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.29	23.16	23.22	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83300	83324	83488	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	83310	83335	83500	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	305.02	300.91	302		
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.30	23.25	23.29	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.22	23.19	23.20	25.0	0.0



Part27Q 78 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
	Channel				83334		
	Frequency (MHz)				3500.01		
100	PIQ-BPSK	1	1		21.79		
100	PIQ-BPSK	1	137		21.87		
100	PIQ-BPSK	1	271		21.83		23.5
100	PIQ-BPSK	135	0		21.88		
100	PIQ-BPSK	135	66		21.94		23.5
100	PIQ-BPSK	135	138		21.73		
100	PIQ-BPSK	270	0		21.56		25.0
100	QPSK	1	1		22.00		
100	QPSK	1	137		21.88		23.5
100	QPSK	1	271		21.83		
100	QPSK	135	0		21.86		
100	QPSK	135	66		21.83		23.5
100	QPSK	135	138		21.58		
100	QPSK	270	0		21.56		25.0
100	16QAM	1	1		21.50		25.5
100	16QAM	1	1		21.43		24.0
100	256QAM	1	1		19.07		18.0
	Channel			83300	83334	83368	Tune-up limit (dB)
	Frequency (MHz)			3476	3500.01	3524.02	MPR
50	QPSK	1	1		21.79	21.77	23.5
	Channel			83688	83334	83408	Tune-up limit (dB)
	Frequency (MHz)			3490.02	3500.01	3510	MPR
80	QPSK	1	1		21.70	21.73	23.5
	Channel			83334	83334	83434	Tune-up limit (dB)
	Frequency (MHz)			3485.01	3500.01	3515.01	MPR
70	QPSK	1	1		21.73	21.88	23.5
	Channel			83000	83034	83068	Tune-up limit (dB)
	Frequency (MHz)			3480	3500.01	3500.02	MPR
60	QPSK	1	1		21.70	21.77	23.5
	Channel			83100	83134	83168	Tune-up limit (dB)
	Frequency (MHz)			3475.02	3500.01	3505	MPR
50	QPSK	1	1		21.88	21.88	23.5
	Channel			83134	83134	83234	Tune-up limit (dB)
	Frequency (MHz)			3470.01	3500.01	3500.01	MPR
40	QPSK	1	1		21.68	21.83	22.5
	Channel			83100	83334	83668	Tune-up limit (dB)
	Frequency (MHz)			3469	3500.01	3515.02	MPR
30	QPSK	1	1		21.71	21.72	23.5
	Channel			83688	83334	83608	Tune-up limit (dB)
	Frequency (MHz)			3463.01	3500.01	3504	MPR
20	QPSK	1	1		21.52	21.68	23.5



Part27Q 78 PC2 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
	Channel				83334		
	Frequency (MHz)				3500.01		
100	PB4 BPSK	1	1		22.21		25.0
100	PB4 BPSK	1	137		21.27		25.0
100	PB4 BPSK	1	271		22.74		24.5
100	PB4 BPSK	1	405		22.79		25.0
100	PB4 BPSK	1	539		23.08		25.0
100	PB4 BPSK	1	673		22.27		24.5
100	PB4 BPSK	1	807		21.27		25.0
100	QPSK	1	1		23.30		25.0
100	QPSK	1	137		22.28		24.5
100	QPSK	1	271		22.27		24.5
100	QPSK	1	405		22.76		25.0
100	QPSK	1	539		23.19		25.0
100	QPSK	1	673		21.70		24.5
100	QPSK	1	807		22.28		24.5
100	QPSK	1	941		21.75		25.0
100	8QAM	1	1		20.68		22.5
100	8QAM	1	1		18.73		23.5
	Channel			83500	83334	83368	
	Frequency (MHz)				3500.01	3500.02	
50	QPSK	1	1	23.10	23.23	23.20	25.0
	Channel			83588	83334	83400	
	Frequency (MHz)				3500.02	3500.01	
50	QPSK	1	1	23.17	23.25	23.29	25.0
	Channel			83534	83334	83434	
	Frequency (MHz)				3500.01	3515.01	
70	QPSK	1	1	23.20	23.29	23.28	25.0
	Channel			83500	83004	83496	
	Frequency (MHz)				3490	3500.01	
60	QPSK	1	1	23.19	23.08	23.19	25.0
	Channel			83500	83334	83500	
	Frequency (MHz)				3475.02	3500.01	
50	QPSK	1	1	23.22	23.21	23.21	25.0
	Channel			83534	83334	83534	
	Frequency (MHz)				3470.01	3500.01	
40	QPSK	1	1	23.27	23.23	23.23	25.0
	Channel			83500	83334	83598	
	Frequency (MHz)				3500.01	3535.02	
30	QPSK	1	1	23.14	23.28	23.23	25.0
	Channel			83588	83334	83600	
	Frequency (MHz)				3460.01	3500.01	
20	QPSK	1	1	23.12	23.29	23.17	25.0



n5 Ant1									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	PI2-BPSK	1	1	24.17	24.48	24.91	25.0	0.0	
20	PI2-BPSK	1	93	24.53	24.65	24.86			
20	PI2-BPSK	1	104	24.34	24.41	24.31			
20	PI2-BPSK	50	0	23.91	24.08	23.90	24.5	0.5	
20	PI2-BPSK	50	28	24.41	24.47	24.38	25.0	0.0	
20	PI2-BPSK	50	56	25.00	25.00	25.00	24.5	0.5	
20	PI2-BPSK	100	0	23.89	24.05	23.97			
20	PI2-BPSK	100	0	23.89	24.05	23.97			
20	QPSK	1	1	24.59	24.65	24.58	25.0	0.0	
20	QPSK	1	93	24.55	24.62	24.54			
20	QPSK	1	104	24.27	24.43	24.31			
20	QPSK	50	0	23.44	23.55	23.41	24.0	1.0	
20	QPSK	50	28	24.38	24.45	24.36	25.0	0.0	
20	QPSK	50	56	23.42	23.51	23.36	24.0	1.0	
20	QPSK	100	0	23.44	23.49	23.36			
20	QPSK	100	0	23.44	23.49	23.36			
20	16QAM	1	1	23.59	23.62	23.55	24.0	1.0	
20	16QAM	1	1	21.83	23.01	21.86	22.5	2.5	
20	256QAM	1	1	19.81	19.83	19.80	20.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.19	18.63	18.13	25.0	0.0	
15	QPSK	1	1	24.21	24.35	24.21	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.27	24.33	24.28	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.24	24.41	24.28	25.0	0.0	



n7 Ant3									
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)									
50	PV2 BPSK	1	1	2150	2230	2230			
50	PV2 BPSK	1	136	2227	2233	2232	24.0	0.0	
50	PV2 BPSK	1	268	2221	2231	2231			
50	PV2 BPSK	136	3	2187	2193	2194	23.5	0.5	
50	PV2 BPSK	136	68	2228	2243	2238	24.0	0.0	
50	PV2 BPSK	136	105	2184	2196	2196			
50	PV2 BPSK	272	3	2158	2165	2164	23.5	0.5	
50	QPSK	1	1	2248	2268	2262			
50	QPSK	1	136	2225	2235	2232	24.0	0.0	
50	QPSK	1	268	2223	2232	2230			
50	QPSK	136	3	2127	2136	2131	23.0	1.0	
50	QPSK	136	68	2215	2228	2221	24.0	0.0	
50	QPSK	136	105	2131	2141	2136	23.0	1.0	
50	QPSK	272	3	2146	2156	2156			
50	QPSK	1	1	2154	2145	2136	23.0	1.0	
50	84QAM	1	1	1967	1977	1983	21.5	2.5	
50	84QAM	1	1	1738	1748	1752	19.5	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2244	2252	2241	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2243	2265	2234	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	2231	2261	2253	24.0	0.0	
Channel									
Frequency (MHz)									
20	PV2 BPSK	1	1	2234	2265	2238	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2212	2247	2248	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2210	2249	2242	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	2227	2260	2243	24.0	0.0	

n66 Ant3									
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)									
40	PV2 BPSK	1	1	2446	2453	2452			
40	PV2 BPSK	1	108	2452	2460	2454	25.0	0.0	
40	PV2 BPSK	1	214	2449	2454	2450			
40	PV2 BPSK	108	3	2411	2420	2417	25.0	0.5	
40	PV2 BPSK	108	64	2449	2447	2448	25.0	0.0	
40	PV2 BPSK	108	108	2445	2450	2451			
40	PV2 BPSK	216	3	2437	2437	2435	25.0	0.5	
40	QPSK	1	1	2454	2461	2458			
40	QPSK	1	108	2456	2462	2462	25.0	0.0	
40	QPSK	1	214	2448	2451	2452			
40	QPSK	108	3	2445	2445	2446	24.5	1.0	
40	QPSK	108	64	2438	2442	2438	25.0	0.0	
40	QPSK	108	108	2437	2462	2432	24.5	1.0	
40	QPSK	216	3	2456	2456	2441			
40	84QAM	1	1	2328	2331	2327	24.5	1.0	
40	84QAM	1	1	2208	2197	2207	23.0	2.5	
40	84QAM	1	1	1938	1934	1934	21.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2443	2453	2453	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2442	2450	2454	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2441	2454	2455	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2442	2460	2454	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	2451	2460	2450	25.0	0.0	



n38 Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MPR (dB)
Channel											
Frequency (MHz)											
40	PV2 BPSK	1	1	21.65	22.70	22.54					
40	PV2 BPSK	1	53	22.64	22.60	22.58			24.0	0.0	
40	PV2 BPSK	1	104	22.64	22.52	22.82					
40	PV2 BPSK	50	0	22.18	22.11	22.23			23.5	0.5	
40	PV2 BPSK	50	28	22.59	22.62	22.81			24.0	0.0	
40	PV2 BPSK	50	56	22.56	22.56	22.51			23.5	0.5	
40	PV2 BPSK	100	0	22.25	22.17	22.11					
40	QPSK	1	1	22.67	22.74	22.71					
40	QPSK	1	53	22.65	22.64	22.52			24.0	0.0	
40	QPSK	1	104	22.61	22.43	22.53					
40	QPSK	50	0	21.72	21.82	21.82			23.0	1.0	
40	QPSK	50	28	22.60	22.51	22.48			24.0	0.0	
40	QPSK	50	56	22.51	22.50	22.36			23.0	1.0	
40	QPSK	100	0	21.55	21.49	21.54					
40	16QAM	1	1	21.55	21.55	21.55			23.0	1.0	
40	16QAM	1	1	20.20	20.25	20.34			21.5	2.5	
40	256QAM	1	1	18.12	18.11	18.31			19.5	4.5	
Channel											
Frequency (MHz)											
30	QPSK	1	1	22.61	22.62	22.62			24.0	0.0	
Channel											
Frequency (MHz)											
30	QPSK	1	1	22.63	22.61	22.68			24.0	0.0	

n41 PC3 Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MPR (dB)
Channel											
Frequency (MHz)											
100	PV2 BPSK	1	1	21.71	22.40	22.30					
100	PV2 BPSK	1	137	22.78	22.82	22.82			24.0	0.0	
100	PV2 BPSK	1	271	22.81	22.72	22.75					
100	PV2 BPSK	136	0	22.19	22.21	22.31			23.5	0.5	
100	PV2 BPSK	136	66	22.71	22.60	22.82			24.0	0.0	
100	PV2 BPSK	136	136	22.64	22.56	22.56			23.5	0.5	
100	PV2 BPSK	270	0	22.43	22.33	22.31					
100	QPSK	1	1	22.73	22.82	22.80					
100	QPSK	1	137	22.68	22.61	22.82			24.0	0.0	
100	QPSK	1	271	22.76	22.73	22.82					
100	QPSK	136	0	21.82	21.86	21.73			23.0	1.0	
100	QPSK	136	66	22.65	22.61	22.81			24.0	0.0	
100	QPSK	136	136	21.85	21.78	21.82			23.0	1.0	
100	QPSK	270	0	21.76	21.66	21.65					
100	16QAM	1	1	21.65	21.75	21.70			23.0	1.0	
100	16QAM	1	1	20.39	20.37	20.34			21.5	2.5	
100	256QAM	1	1	18.38	18.21	18.30			19.5	4.5	
Channel											
Frequency (MHz)											
50	QPSK	1	1	22.61	22.62	22.62			24.0	0.0	
Channel											
Frequency (MHz)											
50	QPSK	1	1	22.63	22.70	22.74			24.0	0.0	
Channel											
Frequency (MHz)											
50	QPSK	1	1	22.70	22.81	22.87			24.0	0.0	
Channel											
Frequency (MHz)											
70	QPSK	1	1	22.72	22.77	22.77			24.0	0.0	
Channel											
Frequency (MHz)											
60	QPSK	1	1	22.81	22.82	22.77			24.0	0.0	
Channel											
Frequency (MHz)											
50	QPSK	1	1	22.68	22.67	22.72			24.0	0.0	
Channel											
Frequency (MHz)											
40	QPSK	1	1	22.67	22.66	22.70			24.0	0.0	
Channel											
Frequency (MHz)											
30	QPSK	1	1	22.71	22.70	22.74			24.0	0.0	
Channel											
Frequency (MHz)											
20	QPSK	1	1	22.69	22.78	22.73			24.0	0.0	



n7 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (mtd) (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	21.50	21.70	21.80			
50	PI2 BPSK	1	136	21.55	21.70	21.58	23.0	0.0	
50	PI2 BPSK	1	268	21.55	21.66	21.55			
50	PI2 BPSK	136	0	21.12	21.22	21.15	22.5	0.5	
50	PI2 BPSK	136	68	21.64	21.60	21.61	23.0	0.0	
50	PI2 BPSK	136	136	21.12	21.18	21.14			
50	PI2 BPSK	272	0	21.15	21.25	21.21	22.5	0.5	
50	QPSK	1	1	21.63	21.80	21.79			
50	QPSK	1	136	21.57	21.61	21.52	23.0	0.0	
50	QPSK	1	268	21.47	21.62	21.58			
50	QPSK	136	0	20.82	20.74	20.88	22.0	1.0	
50	QPSK	136	68	21.59	21.72	21.67	23.0	0.0	
50	QPSK	136	136	20.68	20.73	20.63	22.0	1.0	
50	QPSK	272	0	20.61	20.76	20.71			
50	16QAM	1	1	20.38	20.45	20.41	22.0	1.0	
50	16QAM	1	1	18.97	18.90	18.99	20.5	2.5	
50	256QAM	1	1	17.12	17.21	17.00	18.5	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.68	21.77	21.65	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.74	21.83	21.74	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.68	21.68	21.67	23.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.63	21.70	21.59	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.72	21.77	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.77	21.73	21.65	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.64	21.70	21.67	23.0	0.0	

n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (mtd) (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.90	17.60	17.80			
40	PI2 BPSK	1	108	22.71	23.70	22.89	24.0	0.0	
40	PI2 BPSK	1	214	22.67	23.77	22.73			
40	PI2 BPSK	108	0	22.13	23.11	22.18	23.5	0.5	
40	PI2 BPSK	108	54	22.75	22.60	22.73	24.0	0.0	
40	PI2 BPSK	108	108	22.58	22.56	22.42			
40	PI2 BPSK	216	0	22.15	23.15	22.30	23.5	0.5	
40	QPSK	1	1	22.67	23.85	22.70			
40	QPSK	1	108	22.78	22.81	22.82	24.0	0.0	
40	QPSK	1	214	22.82	22.78	22.78			
40	QPSK	108	0	22.88	22.58	22.54	23.0	1.0	
40	QPSK	108	54	22.58	22.70	22.77	24.0	0.0	
40	QPSK	108	108	22.67	22.60	22.66	23.0	1.0	
40	QPSK	216	0	22.54	22.72	22.60			
40	16QAM	1	1	22.30	22.35	22.42	23.0	1.0	
40	16QAM	1	1	21.08	21.61	21.61	21.5	2.5	
40	256QAM	1	1	18.04	18.61	18.70	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.60	22.73	22.64	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.61	22.78	22.66	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.60	23.70	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.58	23.71	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.67	23.74	22.59	24.0	0.0	



n38 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	21.79	22.13	22.13			
40	PV2 BPSK	1	53	22.08	22.13	21.98	23.5	0.0	
40	PV2 BPSK	1	104	22.03	21.96	22.07			
40	PV2 BPSK	50	0	21.87	21.93	21.87	23.0	0.5	
40	PV2 BPSK	50	28	21.97	22.00	21.89	23.5	0.0	
40	PV2 BPSK	50	56	22.15	22.07	22.07			
40	PV2 BPSK	100	0	21.81	21.87	21.87	23.0	0.5	
40	QPSK	1	1	22.18	22.17	22.82			
40	QPSK	1	53	22.05	22.01	22.00	23.5	0.0	
40	QPSK	1	104	21.83	21.88	21.82			
40	QPSK	50	0	21.23	21.86	21.07	22.5	1.0	
40	QPSK	50	28	21.90	22.07	21.96	23.5	0.0	
40	QPSK	50	56	21.52	21.50	21.51	22.5	1.0	
40	QPSK	100	0	21.46	21.56	21.56			
40	16QAM	1	1	21.15	21.02	21.13	22.5	1.0	
40	16QAM	1	1	19.83	19.87	19.82	21.0	2.5	
40	256QAM	1	1	17.75	17.63	17.80	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.51	22.05	21.92	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.04	22.14	21.93	23.5	0.0	

n41 PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	21.11	22.18	22.02			
100	PV2 BPSK	1	137	22.08	22.13	22.10	23.5	0.0	
100	PV2 BPSK	1	271	22.05	21.90	21.90			
100	PV2 BPSK	136	0	21.82	21.88	21.88	23.0	0.0	
100	PV2 BPSK	136	66	22.02	22.00	22.10	23.5	0.0	
100	PV2 BPSK	136	136	21.86	21.86	21.83			
100	PV2 BPSK	270	0	21.70	21.67	21.80	23.0	0.5	
100	QPSK	1	1	22.19	22.21	22.18			
100	QPSK	1	137	22.17	22.01	22.10	23.5	0.0	
100	QPSK	1	271	22.14	22.01	22.08			
100	QPSK	136	0	21.84	21.80	21.07	22.5	1.0	
100	QPSK	136	66	22.07	22.11	22.07	23.5	0.0	
100	QPSK	136	136	21.82	21.50	21.15	22.5	1.0	
100	QPSK	270	0	21.56	21.56	21.44			
100	16QAM	1	1	21.22	21.05	21.17	22.5	1.0	
100	16QAM	1	1	19.73	19.73	19.83	21.0	2.5	
100	256QAM	1	1	17.48	17.43	17.90	19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.11	22.02	22.18	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.14	22.20	22.15	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.20	22.00	22.15	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.05	22.18	22.05	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.12	22.14	22.18	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.11	22.00	22.02	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.20	22.21	22.18	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.20	22.10	21.98	23.5	0.0	



n7 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (ms)	MPR	(dB)
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	23.75	23.80	23.80			
50	P12 BPSK	1	136	23.77	23.87	23.75	24.5	0.0	
50	P12 BPSK	1	268	23.87	23.81	23.89			
50	P12 BPSK	136	0	23.92	23.92	23.91	24.0	0.5	
50	P12 BPSK	136	68	23.87	23.80	23.74	24.5	0.0	
50	P12 BPSK	136	136	23.86	23.86	23.81			
50	P12 BPSK	272	0	23.19	23.37	23.23	24.0	0.5	
50	QPSK	1	1	23.86	23.92	23.91			
50	QPSK	1	136	23.72	23.70	23.80	24.5	0.0	
50	QPSK	1	268	23.87	23.74	23.84			
50	QPSK	136	0	22.75	22.86	22.73	23.5	1.0	
50	QPSK	136	68	23.78	23.81	23.75	24.5	0.0	
50	QPSK	136	136	22.79	22.88	22.77	23.5	1.0	
50	QPSK	272	0	22.74	22.74	22.74			
50	16QAM	1	1	22.95	22.95	22.95	23.5	1.0	
50	16QAM	1	1	21.69	21.14	21.89	22.0	2.5	
50	256QAM	1	1	18.32	18.31	18.20	20.0	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.70	23.70	23.83	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.72	23.81	23.75	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.70	23.87	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	23.08	23.84	23.82	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.12	23.87	23.77	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.12	23.70	23.70	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.80	23.84	23.71	24.5	0.0	

n66 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (ms)	MPR	(dB)
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	17.90	17.90	17.90			
40	P12 BPSK	1	108	22.32	23.43	22.31	24.5	0.0	
40	P12 BPSK	1	216	22.10	22.42	22.46			
40	P12 BPSK	108	0	22.98	22.98	22.98	24.0	0.5	
40	P12 BPSK	108	54	22.41	22.40	22.14	24.5	0.0	
40	P12 BPSK	108	108	22.66	22.66	22.12			
40	P12 BPSK	216	0	22.97	22.97	22.91	24.0	0.5	
40	QPSK	1	1	23.46	23.46	23.33			
40	QPSK	1	108	22.51	22.41	22.38	24.5	0.0	
40	QPSK	1	216	22.46	22.38	22.21			
40	QPSK	108	0	22.86	22.46	22.83	23.5	1.0	
40	QPSK	108	54	22.39	22.65	22.22	24.5	0.0	
40	QPSK	108	108	22.69	22.57	22.81	23.5	1.0	
40	QPSK	216	0	22.25	22.44	22.34			
40	16QAM	1	1	22.38	22.33	22.35	23.5	1.0	
40	16QAM	1	1	20.89	20.86	20.81	22.0	2.5	
40	256QAM	1	1	18.79	18.71	18.81	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.28	22.28	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.30	22.30	22.25	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.30	22.30	22.20	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.33	22.37	22.22	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.08	22.38	22.19	24.5	0.0	



n38 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	23.97	24.00	24.03			
40	PV2 BPSK	1	53	23.85	24.00	24.01	24.5	0.0	
40	PV2 BPSK	1	104	23.91	23.91	23.91			
40	PV2 BPSK	50	0	23.90	23.91	23.90	24.0	0.5	
40	PV2 BPSK	50	28	23.93	24.01	24.01	24.5	0.0	
40	PV2 BPSK	50	56	23.96	23.96	23.97	24.0	0.5	
40	PV2 BPSK	100	0	23.97	23.97	23.98			
40	QPSK	1	1	24.06	24.00	24.00			
40	QPSK	1	53	23.98	23.91	24.00	24.5	0.0	
40	QPSK	1	104	23.84	23.78	23.85			
40	QPSK	50	0	23.90	23.81	23.98	23.5	1.0	
40	QPSK	50	28	23.90	24.00	23.82	24.5	0.0	
40	QPSK	50	56	23.46	23.43	23.44	23.5	1.0	
40	QPSK	100	0	23.97	23.97	23.98			
40	16QAM	1	1	23.98	23.98	23.98	23.5	1.0	
40	16QAM	1	1	23.79	23.82	23.80	22.0	2.5	
40	256QAM	1	1	18.58	18.51	18.70	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.58	18.51	18.70	Turn-up limit (dB)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.90	23.90	23.93	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.90	23.90	23.75	24.5	0.0	

n41 PC3 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	23.94	24.00	24.04			
100	PV2 BPSK	1	137	24.08	24.00	24.00	24.5	0.0	
100	PV2 BPSK	1	271	23.98	23.83	23.90			
100	PV2 BPSK	136	0	23.94	23.91	23.90	24.0	0.5	
100	PV2 BPSK	136	68	23.92	23.91	23.88	24.5	0.0	
100	PV2 BPSK	270	0	23.93	23.91	23.90			
100	QPSK	1	1	24.08	24.10	24.05			
100	QPSK	1	137	23.76	23.81	23.79	24.5	0.0	
100	QPSK	1	271	24.05	23.91	23.88			
100	QPSK	136	0	22.92	22.90	23.04	23.5	1.0	
100	QPSK	136	68	23.75	23.91	23.85	24.5	0.0	
100	QPSK	136	136	23.01	22.92	23.01	23.5	1.0	
100	QPSK	270	0	23.96	23.96	23.97			
100	16QAM	1	1	23.04	23.04	23.02	23.5	1.0	
100	16QAM	1	1	21.68	21.58	21.70	22.0	2.5	
100	256QAM	1	1	18.87	18.51	18.90	20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.01	24.00	24.00	Turn-up limit (dB)	MPR	
90	QPSK	1	1	24.03	24.00	24.00	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.07	24.00	24.04	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.92	23.90	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.87	24.00	23.88	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.08	24.00	24.00	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.83	23.90	23.88	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.04	24.00	23.92	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.91	24.00	24.00	24.5	0.0	



Par270 n77 PC3 Ant9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Rec	Power High Ch. F/Rec	Power High Ch. F/Rec	Tx+up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2BPSK	1	1	23.70	23.86	23.70			
100	Pi2BPSK	1	1	23.78	23.60	23.78		25.5	0.0
100	Pi2BPSK	1	271	23.68	23.74	23.78			
100	Pi2BPSK	136	0	23.17	23.12	23.22		25.0	0.5
100	Pi2BPSK	136	66	23.53	23.57	23.68		25.5	0.0
100	Pi2BPSK	136	138	23.54	23.14	23.15		25.0	0.5
100	Pi2BPSK	276	0	23.27	23.14	23.10		25.5	0.5
100	QPSK	1	1	23.67	23.81	23.70			
100	QPSK	1	137	23.77	23.60	23.70		25.5	0.0
100	QPSK	1	271	23.51	23.53	23.58			
100	QPSK	136	0	22.70	22.61	22.68		24.5	1.0
100	QPSK	136	69	23.55	23.63	23.57		25.5	0.0
100	QPSK	136	138	22.62	22.61	22.63		24.5	1.0
100	QPSK	276	0	22.56	22.56	22.57		25.0	0.5
100	16QAM	1	1	23.55	23.57	23.57		24.5	1.0
100	16QAM	1	1	21.08	21.12	21.23		23.0	2.5
100	256QAM	1	1	19.18	19.04	19.01		21.0	4.5
Channel									
Frequency (MHz)									
80									
QPSK	1	1	23.54	23.60	23.57	25.5	0.0		
Channel									
Frequency (MHz)									
80									
QPSK	1	1	23.60	23.74	23.65	25.5	0.0		
Channel									
Frequency (MHz)									
70									
QPSK	1	1	23.57	23.78	23.64	25.5	0.0		
Channel									
Frequency (MHz)									
60									
QPSK	1	1	23.83	23.71	23.61	25.5	0.0		
Channel									
Frequency (MHz)									
50									
QPSK	1	1	23.68	23.70	23.64	25.5	0.0		
Channel									
Frequency (MHz)									
40									
QPSK	1	1	23.59	23.72	23.66	25.5	0.0		
Channel									
Frequency (MHz)									
30									
QPSK	1	1	23.53	23.71	23.60	25.5	0.0		
Channel									
Frequency (MHz)									
20									
QPSK	1	1	23.53	23.72	23.65	25.5	0.0		

Part27Q n77 PC3 Ant9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Rec	Power High Ch. F/Rec	Power High Ch. F/Rec	Tx+up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2BPSK	1	1		23.43	23.50			
100	Pi2BPSK	1	137		23.57			25.5	0.0
100	Pi2BPSK	1	271		23.55				
100	Pi2BPSK	136	0		23.13			25.0	0.5
100	Pi2BPSK	136	66		23.67			25.5	0.0
100	Pi2BPSK	136	138		23.57			25.0	0.5
100	Pi2BPSK	276	0		23.05			25.5	0.5
100	QPSK	1	1		23.77				
100	QPSK	1	137		23.61			25.5	0.0
100	QPSK	1	271		23.57				
100	QPSK	136	0		22.56			24.5	1.0
100	QPSK	136	69		23.59			25.5	0.0
100	QPSK	136	138		22.52			24.5	1.0
100	QPSK	276	0		22.50			25.0	0.5
100	16QAM	1	1		23.55			24.5	1.0
100	16QAM	1	1		21.14			24.5	2.5
100	256QAM	1	1		19.24			22.5	4.5
Channel									
Frequency (MHz)									
80									
QPSK	1	1	23.59	23.62	23.70	25.5	0.0		
Channel									
Frequency (MHz)									
80									
QPSK	1	1	23.70	23.59	23.66	25.5	0.0		
Channel									
Frequency (MHz)									
70									
QPSK	1	1	23.61	23.65	23.65	25.5	0.0		
Channel									
Frequency (MHz)									
60									
QPSK	1	1	23.83	23.59	23.70	25.5	0.0		
Channel									
Frequency (MHz)									
50									
QPSK	1	1	23.68	23.67	23.70	25.5	0.0		
Channel									
Frequency (MHz)									
40									
QPSK	1	1	23.59	23.66	23.67	25.5	0.0		
Channel									
Frequency (MHz)									
30									
QPSK	1	1	23.53	23.63	23.62	25.5	0.0		
Channel									
Frequency (MHz)									
20									
QPSK	1	1	23.60	23.62	23.72	25.5	0.0		

Part270 n78 PC3 Ant9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Rec	Power High Ch. F/Rec	Power High Ch. F/Rec	Tx+up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2BPSK	1	1		37.60	37.60			
100	Pi2BPSK	1	137		37.78			25.5	0.0
100	Pi2BPSK	1	271		37.57				
100	Pi2BPSK	136	0		37.80			25.0	0.5
100	Pi2BPSK	136	66		37.71			25.5	0.0
100	Pi2BPSK	136	138		37.44			25.0	0.5
100	Pi2BPSK	276	0		37.67			25.5	0.5
100	QPSK	1	1		37.62				
100	QPSK	1	137		37.72			25.5	0.0
100	QPSK	1	271		37.53				
100	QPSK	136	0		37.73			24.5	1.0
100	QPSK	136	69		37.65			25.5	0.0
100	QPSK	136	138		37.46			24.5	1.0
100	QPSK	276	0		37.46			24.5	1.0
100	16QAM	1	1		37.75			24.5	1.0
100	16QAM	1	1		29.80			23.0	2.5
100	256QAM	1	1		27.70			21.0	4.5
Channel									
Frequency (MHz)									
80									
QPSK	1	1	37.64	37.67	37.61	25.5	0.0		
Channel									
Frequency (MHz)									
80									
QPSK	1	1	37.66	37.78	37.68	25.5	0.0		
Channel									
Frequency (MHz)									
70									
QPSK	1	1	37.65	37.61	37.61	25.5	0.0		
Channel									
Frequency (MHz)									
60									
QPSK	1	1	37.76	37.70	37.68	25.5	0.0		
Channel									
Frequency (MHz)									
50									
QPSK	1	1	37.72	37.68	37.67	25.5	0.0		
Channel									
Frequency (MHz)									
40									
QPSK	1	1	37.63	37.62	37.63	25.5	0.0		
Channel									
Frequency (MHz)									
30									
QPSK	1	1	37.63	37.63	37.62	25.5	0.0		
Channel									
Frequency (MHz)									
20									
QPSK	1	1	37.63	37.61	37.62	25.5	0.0		



Part270 n78 PC2 Ant9										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
3760										
3760										
3760										
100	PI2 BPSK	1	1	25.21					27.0	0.0
100	PI2 BPSK	1	137	25.41						
100	PI2 BPSK	1	273	24.65					26.5	0.5
100	PI2 BPSK	135	0	24.81						
100	PI2 BPSK	135	66	25.22					27.0	0.0
100	PI2 BPSK	135	132	24.66					26.5	0.5
100	PI2 BPSK	270	0	24.81					26.5	0.5
100	QPSK	1	1	25.43					27.0	0.0
100	QPSK	1	137	25.34						
100	QPSK	1	273	24.81					26.5	0.5
100	QPSK	135	0	24.26					27.0	0.0
100	QPSK	135	66	25.35					27.0	0.0
100	QPSK	135	132	23.89					23.5	3.5
100	QPSK	270	0	24.3					26.5	1.0
100	ISDM	1	1	23.75					24.5	1.0
100	ISDM	1	1	22.67					24.5	2.5
100	ISDM	1	1	20.85					22.5	4.5
Channel										
Frequency (MHz)										
45000										
90	QPSK	1	1	25.31	25.37	25.41	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
80	QPSK	1	1	25.37	25.39	25.35	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
70	QPSK	1	1	25.33	25.35	25.38	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
60	QPSK	1	1	25.29	25.32	25.31	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
50	QPSK	1	1	25.27	25.33	25.34	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
40	QPSK	1	1	25.24	25.29	25.33	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
30	QPSK	1	1	25.23	25.29	25.35	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
45000										
20	QPSK	1	1	25.36	25.36	25.35	Tune-up Int (dBm)	MFR (dB)		

Part270 78 PC3 Ant9										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
3900.51										
100	PI2 BPSK	1	1	23.92					25.5	0.0
100	PI2 BPSK	1	137	23.83						
100	PI2 BPSK	1	273	23.65					25.5	0.0
100	PI2 BPSK	135	0	23.78						
100	PI2 BPSK	135	66	23.79					25.5	0.0
100	PI2 BPSK	135	132	23.61					25.5	0.0
100	PI2 BPSK	270	0	23.75					25.5	0.0
100	QPSK	1	1	23.93					25.5	0.0
100	QPSK	1	137	23.84						
100	QPSK	1	273	23.66					25.5	0.0
100	QPSK	135	0	23.60					24.5	1.0
100	QPSK	135	66	23.83					25.5	0.0
100	QPSK	135	132	23.69					24.5	1.0
100	QPSK	270	0	23.83					24.5	1.0
100	ISDM	1	1	23.75					25.5	1.0
100	ISDM	1	1	22.67					24.5	1.0
100	ISDM	1	1	20.87					22.5	3.5
Channel										
Frequency (MHz)										
43000										
90	QPSK	1	1	23.83	23.84	23.86	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
80	QPSK	1	1	23.87	23.72	23.79	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
70	QPSK	1	1	23.88	23.81	23.83	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
60	QPSK	1	1	23.88	23.81	23.83	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
50	QPSK	1	1	23.88	23.83	23.86	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
40	QPSK	1	1	23.90	23.73	23.82	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
30	QPSK	1	1	23.87	23.79	23.78	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
20	QPSK	1	1	23.83	23.81	23.84	Tune-up Int (dBm)	MFR (dB)		

Part270 78 PC2 Ant9										
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
3900.51										
100	PI2 BPSK	1	1	25.41					27.0	0.0
100	PI2 BPSK	1	137	25.28						
100	PI2 BPSK	1	273	25.65					26.5	0.5
100	PI2 BPSK	135	0	24.81						
100	PI2 BPSK	135	66	25.21					27.0	0.0
100	PI2 BPSK	135	132	24.66					26.5	0.5
100	PI2 BPSK	270	0	24.81					26.5	0.5
100	QPSK	1	1	25.44					27.0	0.0
100	QPSK	1	137	25.38						
100	QPSK	1	273	25.22					26.5	0.5
100	QPSK	135	0	24.41					27.0	0.0
100	QPSK	135	66	25.34					27.0	0.0
100	QPSK	135	132	24.45					23.5	3.5
100	QPSK	270	0	24.4					26.5	1.0
100	ISDM	1	1	23.75					24.5	1.0
100	ISDM	1	1	22.67					24.5	2.5
100	ISDM	1	1	20.87					22.5	4.5
Channel										
Frequency (MHz)										
43000										
90	QPSK	1	1	25.31	25.37	25.36	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
80	QPSK	1	1	25.34	25.28	25.29	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
70	QPSK	1	1	25.35	25.31	25.28	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
60	QPSK	1	1	25.29	25.39	25.28	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
50	QPSK	1	1	25.34	25.28	25.32	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
40	QPSK	1	1	25.33	25.29	25.37	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
30	QPSK	1	1	25.34	25.35	25.29	Tune-up Int (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
43000										
20	QPSK	1	1	25.36	25.36	25.35	Tune-up Int (dBm)	MFR (dB)		



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-q (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2-BPSK	1	1	24.18	24.22	24.27		
100	Pi2-BPSK	1	1	24.12	24.34	25.17	25.5	0.0
100	Pi2-BPSK	1	271	24.18	24.26	24.20		
100	Pi2-BPSK	136	0	23.74	23.77	23.73	25.0	0.5
100	Pi2-BPSK	136	66	24.33	24.22	24.20	25.5	0.0
100	Pi2-BPSK	136	136	23.74	23.77	23.73	25.0	0.5
100	Pi2-BPSK	270	0	23.74	23.52	23.54		
100	QPSK	1	1	24.24	24.37	24.14		
100	QPSK	1	137	24.12	24.21	24.12	25.5	0.0
100	QPSK	1	271	24.33	24.38	24.25		
100	QPSK	136	0	23.42	23.25	23.28	24.5	1.0
100	QPSK	136	69	24.13	24.32	24.07	25.5	0.0
100	QPSK	136	136	23.23	23.17	23.22	24.5	1.0
100	QPSK	270	0	24.16	24.24	24.11		
100	16QAM	1	1	22.74	22.75	22.81	24.5	1.0
100	16QAM	1	1	21.59	21.54	21.59	23.0	2.5
100	16QAM	1	1	19.79	19.68	19.81	21.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	65968	65900	65934	Tx-to-q limit	MPR
Frequency (MHz)								
90	QPSK	1	1	24.16	24.26	24.00	25.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64934	65000	65066	Tx-to-q limit	MPR
Frequency (MHz)								
80	QPSK	1	1	24.19	24.25	24.01	25.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64000	65000	65000	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.13	24.27	24.05	25.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.10	24.31	24.02	25.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64000	65000	66000	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	64334	65000	66668	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.10	24.33	24.02	25.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-q (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2-BPSK	1	1	24.24		65900.01		
100	Pi2-BPSK	1	137		24.28			25.5
100	Pi2-BPSK	1	271		24.34			0.0
100	Pi2-BPSK	136	0		23.83			25.0
100	Pi2-BPSK	136	66		24.23			25.5
100	Pi2-BPSK	136	136		23.96			25.5
100	Pi2-BPSK	270	0		23.75			25.5
100	QPSK	1	1		24.40			25.5
100	QPSK	1	137		24.28			25.5
100	QPSK	1	271		24.18			25.5
100	QPSK	136	0		23.15			25.5
100	QPSK	136	69		24.01			25.5
100	QPSK	136	136		23.11			25.5
100	QPSK	270	0		23.29			25.5
100	16QAM	1	1		22.55			25.5
100	16QAM	1	1		21.62			24.5
100	16QAM	1	1		19.81			22.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	63000	63334	63668	Tx-to-q limit	MPR
Frequency (MHz)								
90	QPSK	1	1	24.30	24.28	24.27	25.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	63668	63334	63600	Tx-to-q limit	MPR
Frequency (MHz)								
80	QPSK	1	1	24.27	24.30	24.35	25.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	63234	63334	63434	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.27	24.38	24.37	25.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	62668	63000	63334	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	62000	63000	63500	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	61334	63334	63668	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.33	24.27	24.35	25.5	0.0

Par270 n78 PC3 Ant10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-q (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2-BPSK	1	1	3700	3700	3890		
100	Pi2-BPSK	1	137		24.43			25.5
100	Pi2-BPSK	1	271		24.39			0.0
100	Pi2-BPSK	136	0		24.44			25.5
100	Pi2-BPSK	136	66		24.46			25.5
100	Pi2-BPSK	136	136		24.46			25.5
100	Pi2-BPSK	270	0		24.37			25.5
100	QPSK	1	1		24.50			25.5
100	QPSK	1	137		24.38			25.5
100	QPSK	1	271		24.28			25.5
100	QPSK	136	0		24.32			25.5
100	QPSK	136	69		24.33			25.5
100	QPSK	136	136		24.36			25.5
100	QPSK	270	0		24.46			25.5
100	16QAM	1	1		24.31			25.5
100	16QAM	1	1		23.44			24.5
100	16QAM	1	1		21.38			22.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	65034	Tx-to-q limit	MPR
Frequency (MHz)								
90	QPSK	1	1	24.41	24.43	24.54	25.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64634	65000	65066	Tx-to-q limit	MPR
Frequency (MHz)								
80	QPSK	1	1	24.48	24.38	24.55	25.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64000	65000	65000	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.41	24.40	24.47	25.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	63668	65000	65334	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	63000	65000	65334	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	62334	65000	65668	Tx-to-q limit	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.40	24.41	24.48	25.5	0.0



Par270 n77 PC3 Ant11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac]	Power High Ch. [Frac]	Power High Ch. [Frac]	Tx-to-rx [ms]	MPE (dB)	MPE (dB)
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	21.18	22.18	22.18			
100	PID-BPSK	1	137	22.08	21.98	21.98		23.5	0.0
100	PID-BPSK	1	271	21.98	21.78	21.53		23.0	0.5
100	PID-BPSK	136	0	21.58	21.52	21.50		23.0	0.5
100	PID-BPSK	136	66	21.88	22.01	21.94		23.5	0.0
100	PID-BPSK	136	138	21.58	21.50	21.42		23.0	0.5
100	PID-BPSK	226	0	21.43	21.45	21.45		23.0	0.5
100	QPSK	1	1	22.08	22.21	22.19		23.5	0.0
100	QPSK	1	137	22.05	22.20	22.02			
100	QPSK	1	271	21.74	21.78	21.78		23.5	0.0
100	QPSK	136	0	21.07	20.95	20.90		22.5	1.0
100	QPSK	136	69	21.64	21.70	21.54		23.5	0.0
100	QPSK	136	138	21.13	20.80	20.83		22.5	1.0
100	QPSK	226	0	21.16	21.20	21.06		22.5	1.0
100	16QAM	1	1	21.18	21.50	20.90		22.5	1.0
100	16QAM	1	1	19.98	19.51	19.58		21.0	2.5
100	16QAM	1	1	17.78	17.51	17.66		19.0	4.2
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.04	22.04	22.01		23.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.98	22.00	22.08		23.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.94	22.00	22.20		23.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.92	22.12	22.11		23.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.91	22.07	22.16		23.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.03	22.02	22.14		23.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.08	22.01	22.10		23.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.93	22.17	22.19		23.5	0.0

Part270q n77 PC3 Ant11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac]	Power High Ch. [Frac]	Power High Ch. [Frac]	Tx-to-rx [ms]	MPE (dB)	MPE (dB)
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	21.92		21.92			
100	PID-BPSK	1	137	21.80		21.80		23.5	0.0
100	PID-BPSK	1	271	21.60		21.60		23.0	0.5
100	PID-BPSK	136	0	21.21		21.21		23.0	0.5
100	PID-BPSK	136	66	21.50		21.50		23.5	0.0
100	PID-BPSK	136	138	21.29		21.29		23.5	0.5
100	PID-BPSK	226	0	21.18		21.18		23.5	0.5
100	QPSK	1	1	22.17		22.17		23.5	0.0
100	QPSK	1	137	22.04		22.04			
100	QPSK	1	271	22.00		22.00		23.5	0.0
100	QPSK	136	0	22.06		22.06		23.5	0.0
100	QPSK	136	69	22.00		22.00		23.0	0.0
100	QPSK	136	138	22.02		22.02		23.0	1.0
100	QPSK	226	0	21.20		21.20		23.0	1.0
100	16QAM	1	1	20.84		20.84		22.5	1.0
100	16QAM	1	1	19.20		19.20		22.5	2.5
100	16QAM	1	1	17.47		17.47		20.5	4.2
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.94	22.00	22.16		23.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.94	22.00	22.00		23.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.00	22.10	22.12		23.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.02	22.18	22.01		23.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.98	22.07	22.10		23.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.97	22.02	22.11		23.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.04	22.14	22.09		23.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.89	22.12	22.18		23.5	0.0

Part270 n78 PC3 Ant11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac]	Power High Ch. [Frac]	Power High Ch. [Frac]	Tx-to-rx [ms]	MPE (dB)	MPE (dB)
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	21.43		21.43			
100	PID-BPSK	1	137	21.54		21.54		23.5	0.0
100	PID-BPSK	1	271	21.62		21.62		23.0	0.5
100	PID-BPSK	136	0	21.28		21.28		23.0	0.5
100	PID-BPSK	136	66	21.80		21.80		23.5	0.0
100	PID-BPSK	136	138	21.49		21.49		23.5	0.0
100	PID-BPSK	226	0	21.45		21.45		23.5	0.0
100	QPSK	1	1	22.02		22.02		23.5	0.0
100	QPSK	1	137	21.88		21.88			
100	QPSK	1	271	21.90		21.90		23.5	0.0
100	QPSK	136	0	21.94		21.94		23.5	0.0
100	QPSK	136	69	21.84		21.84		23.5	0.0
100	QPSK	136	138	21.82		21.82		23.5	0.0
100	QPSK	226	0	21.68		21.68		23.5	0.0
100	16QAM	1	1	21.91		21.91		23.5	0.0
100	16QAM	1	1	20.75		20.75		22.5	1.0
100	16QAM	1	1	18.88		18.88		20.5	3.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.92	21.92	22.02		23.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.78	21.80	22.08		23.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.91	21.91	21.92		23.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.77	21.88	21.91		23.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.93	21.83	21.94		23.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.88	21.80	21.81		23.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.89	21.91	21.91		23.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.72	21.80	21.91		23.5	0.0



Part270 n78 PC2 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PLQ BPSK	1	1	21.79	3790	3790			
100	PLQ BPSK	1	137	21.83			25.0	0.0	
100	PLQ BPSK	1	273	21.27					
100	PLQ BPSK	135	0	21.18			24.5	0.5	
100	PLQ BPSK	135	66	21.53			25.0	0.0	
100	PLQ BPSK	135	132	22.84			24.5	0.5	
100	PLQ BPSK	270	0	21.59			24.5	0.5	
100	QPSK	1	1	21.74			25.0	0.0	
100	QPSK	1	137	22.87					
100	QPSK	1	273	21.56			24.5	0.5	
100	QPSK	135	0	22.48			25.0	0.0	
100	QPSK	135	66	21.88			24.5	1.0	
100	QPSK	135	132	22.57			24.5	1.0	
100	QPSK	270	0	22.01			24.5	1.0	
100	16QAM	1	1	22.58			24.0	1.0	
100	16QAM	1	1	20.95			22.5	2.5	
100	25QAM	1	1	18.84			23.5	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83688	83688	83688	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	86934	86934	86934	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	85000	85000	85000	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3790	3790	3790	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3790	3790	3790	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3790	3790	3790	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	86934	86934	86934	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	86934	86934	86934	Tune-up Int. (dBm)	MPR	

Part27Q 78 PC3 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PLQ BPSK	1	1	21.78	3500.51				
100	PLQ BPSK	1	137	21.84			23.5	0.0	
100	PLQ BPSK	1	273	21.67					
100	PLQ BPSK	135	0	21.87			23.5	0.0	
100	PLQ BPSK	135	66	21.82			23.5	0.0	
100	PLQ BPSK	135	132	21.84			23.5	0.0	
100	PLQ BPSK	270	0	21.59			23.5	0.0	
100	QPSK	1	1	21.61			23.5	0.0	
100	QPSK	1	137	21.79					
100	QPSK	1	273	21.73			23.5	0.0	
100	QPSK	135	0	21.82			23.5	0.0	
100	QPSK	135	66	21.72			23.5	0.0	
100	QPSK	135	132	21.41			23.5	0.0	
100	QPSK	270	0	21.71			23.5	0.0	
100	16QAM	1	1	21.72			23.5	0.0	
100	16QAM	1	1	20.73			22.5	1.0	
100	25QAM	1	1	18.84			23.5	3.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83300	83334	83368	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83688	83334	83400	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	83334	83334	83434	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.87	21.82	21.83	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.84	21.78	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.81	21.83	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83334	83334	83368	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	83688	83334	83500	Tune-up Int. (dBm)	MPR	

Part27Q 78 PC2 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PLQ BPSK	1	1	22.87	3500.51				
100	PLQ BPSK	1	137	21.54			25.0	0.0	
100	PLQ BPSK	1	273	21.25					
100	PLQ BPSK	135	0	22.85			21.5	3.5	
100	PLQ BPSK	135	66	22.43			25.0	0.0	
100	PLQ BPSK	135	132	22.85			21.5	3.5	
100	PLQ BPSK	270	0	22.85			25.0	0.0	
100	QPSK	1	1	21.57			25.0	0.0	
100	QPSK	1	137	22.20					
100	QPSK	1	273	21.45			21.0	3.5	
100	QPSK	135	0	22.34			25.0	0.0	
100	QPSK	135	66	22.50			21.5	3.5	
100	QPSK	135	132	22.50			21.5	3.5	
100	QPSK	270	0	22.25			24.5	0.5	
100	16QAM	1	1	22.46			24.0	1.0	
100	16QAM	1	1	20.87			22.5	2.5	
100	25QAM	1	1	18.74			23.5	4.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83300	83334	83368	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83688	83334	83400	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	83334	83334	83434	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.20	21.50	21.24	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.47	21.33	21.38	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83334	83334	83368	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83688	83334	83500	Tune-up Int. (dBm)	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.27	21.54	21.44	25.0	0.0	



Reduced power level for 5G NR Main PA DSI1

n5 Ant0								
BW [MHz]	Modulation	RB Size	RE Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			834	836.5	839		
20	PQD BPSK	1	1	24.48	24.52	24.53		
20	PQD BPSK	1	1	24.47	24.41	24.34	25.5	0.0
20	PQD BPSK	1	104	24.28	24.49	24.53		
20	PQD BPSK	50	0	24.17	24.08	24.09	25.0	0.5
20	PQD BPSK	50	38	24.15	23.93	23.92	25.5	0.0
20	PQD BPSK	50	56	24.21	24.34	24.28	25.0	0.5
20	PQD BPSK	100	0	23.88	23.52	23.53		
20	QPSK	1	1	24.45	24.58	24.53		
20	QPSK	1	63	24.37	24.50	24.46	25.5	0.0
20	QPSK	1	104	24.46	24.50	24.46		
20	QPSK	50	0	23.49	23.25	23.02	24.5	1.0
20	QPSK	50	28	23.57	23.67	23.58	25.5	0.0
20	QPSK	50	56	23.57	23.81	23.59	24.5	1.0
20	QPSK	100	0	22.55	22.64	22.58		
20	16QAM	1	1	22.50	22.42	22.50	24.5	1.0
20	64QAM	1	1	22.22	22.11	22.15	23.5	2.5
20	256QAM	1	1	20.12	20.04	20.16	21.0	4.5
Channel								
	Frequency (MHz)			1833.5	1835.5	1837.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.40	24.60	24.47	25.5	0.0
Channel								
	Frequency (MHz)			1839	1839.5	1844	(dBm)	
10	QPSK	1	1	24.40	24.80	24.54	25.5	0.0
Channel								
	Frequency (MHz)			1821.5	1832.5	1832.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.42	24.67	24.43	25.5	0.0

n7 Ant0								
BW [MHz]	Modulation	RB Size	RE Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			2000	2000	2000		
50	PQD BPSK	1	1	22.12	22.18	22.09		
50	PQD BPSK	1	156	22.07	22.15	22.02	24.0	0.0
50	PQD BPSK	1	308	22.01	22.11	22.07		
50	PQD BPSK	156	0	21.67	21.73	21.84	23.5	0.5
50	PQD BPSK	156	88	22.08	22.21	22.05	24.0	0.0
50	PQD BPSK	156	156	21.84	21.78	21.68	23.5	0.5
50	PQD BPSK	270	0	21.88	21.78	21.64		
50	QPSK	1	1	22.18	22.28	22.02		
50	QPSK	1	156	22.05	22.15	22.02	24.0	0.0
50	QPSK	1	208	22.05	22.12	22.05		
50	QPSK	156	0	21.07	21.15	21.11	23.5	1.0
50	QPSK	156	88	22.07	22.17	22.01	24.0	0.0
50	QPSK	156	156	20.81	20.91	20.80	23.0	1.0
50	QPSK	270	0	20.90	21.00	20.85		
50	16QAM	1	1	21.14	21.25	21.18	23.0	1.0
50	64QAM	1	1	19.70	19.57	19.53	21.5	2.5
50	256QAM	1	1	17.88	17.78	17.82	19.5	4.5
Channel								
	Frequency (MHz)			2400.0	2400.0	2400.0	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.84	22.11	21.86	24.0	0.0
Channel								
	Frequency (MHz)			2315	2315	2315	(dBm)	
30	QPSK	1	1	21.88	22.00	21.87	24.0	0.0
Channel								
	Frequency (MHz)			2127.5	2130	2127	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.13	21.13	21.01	24.0	0.0
Channel								
	Frequency (MHz)			2020.0	2070.0	2150.0	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.92	22.03	21.91	24.0	0.0
Channel								
	Frequency (MHz)			2010.0	2070.0	2130.0	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.87	22.08	21.86	24.0	0.0
Channel								
	Frequency (MHz)			2010.0	2070.0	2130.0	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.18	22.04	22.04	24.0	0.0
Channel								
	Frequency (MHz)			2540.5	2538	2540.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.07	22.08	22.08	24.0	0.0

n66 Ant0								
BW [MHz]	Modulation	RB Size	RE Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			34000	34000	35000		
40	PQD BPSK	1	1	22.09	22.02	22.02		
40	PQD BPSK	1	108	22.11	22.08	22.08	24.5	0.0
40	PQD BPSK	1	214	22.54	22.73	22.72		
40	PQD BPSK	108	0	22.11	22.18	22.19	24.0	0.5
40	PQD BPSK	108	56	22.07	22.02	22.03	24.5	0.0
40	PQD BPSK	108	108	22.37	22.32	22.41	24.0	0.5
40	PQD BPSK	216	0	22.13	22.13	22.24		
40	QPSK	1	1	22.68	22.76	22.72		
40	QPSK	1	108	22.59	22.65	22.70		
40	QPSK	1	216	22.66	22.68	22.64		
40	QPSK	108	0	21.70	21.68	21.77	23.5	1.0
40	QPSK	108	56	22.65	22.68	22.63	24.5	0.0
40	QPSK	108	108	21.93	21.84	21.98	23.5	1.0
40	QPSK	216	0	22.51	22.52	22.83		
40	16QAM	1	1	21.55	21.52	21.63	22.5	1.0
40	64QAM	1	1	20.12	20.05	20.18	22.0	2.5
40	256QAM	1	1	18.07	18.00	18.10	20.0	4.5
Channel								
	Frequency (MHz)			35000	35000	35000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.08	22.80	22.59	24.5	0.0
Channel								
	Frequency (MHz)			1700	1745	1770	(dBm)	
20	QPSK	1	1	22.08	22.90	22.89	24.5	0.0
Channel								
	Frequency (MHz)			1777.5	1740	1772.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.17	22.68	22.75	24.5	0.0
Channel								
	Frequency (MHz)			34300	34900	35000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.54	22.71	22.76	24.5	0.0
Channel								
	Frequency (MHz)			34200	34900	35000	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.87	22.73	22.73	24.0	0.0



n38 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	MPE (dB)
Channel							
Frequency (MHz)							
5160.00							
40	PID-BPSK	1	1	23.00	23.00	23.92	
40	PID-BPSK	1	93	21.83	21.80	21.79	23.5 0.0
40	PID-BPSK	1	104	21.81	21.80	21.81	
40	PID-BPSK	90	0	21.42	21.40	21.43	23.0 0.5
40	PID-BPSK	90	26	21.74	21.72	21.80	23.5 0.0
40	PID-BPSK	90	56	21.66	21.70	21.64	
40	PID-BPSK	100	0	21.23	21.27	21.32	23.0 0.5
40	QPSK	1	1	21.98	22.04	21.85	
40	QPSK	1	93	21.80	21.80	21.84	23.5 0.0
40	QPSK	1	104	21.82	21.87	21.88	
40	QPSK	90	0	20.83	20.87	20.97	22.5 1.0
40	QPSK	90	26	21.85	21.80	21.87	23.5 0.0
40	QPSK	90	56	20.73	20.67	20.74	22.5 1.0
40	QPSK	100	0	20.67	20.74	20.72	
40	EQAM	1	1	21.08	20.92	21.06	22.5 1.0
40	EQAM	1	1	19.59	19.57	19.87	21.0 2.5
40	EQAM	1	1	17.58	17.48	17.42	19.0 4.5
Channel							
Frequency (MHz)							
5170.00							
30	QPSK	1	1	22.01	22.01	21.80	23.5 0.0
Channel							
Frequency (MHz)							
5180.00							
30	QPSK	1	1	21.93	22.00	21.74	23.5 0.0

n41 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	MPE (dB)
Channel							
Frequency (MHz)							
2046.01							
100	PID-BPSK	1	1	21.02	21.04	21.17	
100	PID-BPSK	1	137	21.59	21.63	21.73	23.5 0.0
100	PID-BPSK	1	271	21.56	21.7	21.85	
100	PID-BPSK	136	0	21.31	21.23	21.32	23.0 0.5
100	PID-BPSK	136	66	21.51	21.50	21.68	23.5 0.0
100	PID-BPSK	136	136	21.61	21.60	21.60	
100	PID-BPSK	270	0	21.24	21.15	21.31	23.0 0.5
100	QPSK	1	1	22.09	22.13	21.83	
100	QPSK	1	137	21.62	21.63	21.81	23.5 0.0
100	QPSK	1	271	21.85	21.63	21.88	
100	QPSK	136	0	20.79	20.86	20.80	22.5 1.0
100	QPSK	136	66	22.05	22.07	21.91	23.5 0.0
100	QPSK	136	136	20.51	20.61	20.88	22.5 1.0
100	QPSK	270	0	21.55	21.46	21.40	
100	EQAM	1	1	20.53	20.84	20.97	22.5 1.0
100	EQAM	1	1	19.43	19.41	19.49	21.0 2.5
100	EQAM	1	1	17.38	17.31	17.40	19.0 4.5
Channel							
Frequency (MHz)							
5090.00							
90	QPSK	1	1	22.04	22.05	21.79	23.5 0.0
Channel							
Frequency (MHz)							
5095.00							
80	QPSK	1	1	21.96	22.03	21.85	23.5 0.0
Channel							
Frequency (MHz)							
5100.00							
70	QPSK	1	1	22.03	22.08	21.82	23.5 0.0
Channel							
Frequency (MHz)							
5105.00							
60	QPSK	1	1	21.98	22.03	21.83	23.5 0.0
Channel							
Frequency (MHz)							
5200.00							
50	QPSK	1	1	21.94	22.02	21.83	23.5 0.0
Channel							
Frequency (MHz)							
5205.00							
40	QPSK	1	1	21.89	22.00	21.80	23.5 0.0
Channel							
Frequency (MHz)							
5210.00							
30	QPSK	1	1	22.01	22.07	21.84	23.5 0.0
Channel							
Frequency (MHz)							
5215.00							
20	QPSK	1	1	22.05	22.05	21.80	23.5 0.0

Par270 n77 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	MPE (dB)
Channel							
Frequency (MHz)							
3090							
100	PID-BPSK	1	1	21.14	21.40	21.57	
100	PID-BPSK	1	137	21.80	21.60	21.53	23.5 0.0
100	PID-BPSK	1	271	21.58	21.52	21.88	
100	PID-BPSK	136	0	21.42	21.60	21.51	23.0 0.5
100	PID-BPSK	136	66	21.76	21.67	21.74	23.5 0.0
100	PID-BPSK	136	136	21.66	21.70	21.60	
100	PID-BPSK	270	0	21.30	21.35	21.38	23.0 0.5
100	QPSK	1	1	21.82	21.80	21.88	
100	QPSK	1	137	21.64	21.70	21.75	23.5 0.0
100	QPSK	1	271	21.82	21.87	21.88	
100	QPSK	136	0	21.87	21.86	21.70	22.5 1.0
100	QPSK	136	66	21.81	21.80	21.79	23.5 0.0
100	QPSK	136	136	20.84	20.80	20.70	22.5 1.0
100	QPSK	270	0	20.66	20.68	20.87	
100	EQAM	1	1	20.53	20.84	20.97	22.5 1.0
100	EQAM	1	1	19.48	19.30	19.85	21.0 2.5
100	EQAM	1	1	17.67	17.60	17.90	19.0 4.5
Channel							
Frequency (MHz)							
8496.88							
90	QPSK	1	1	21.84	21.88	21.52	23.5 0.0
Channel							
Frequency (MHz)							
8493.34							
80	QPSK	1	1	21.81	21.79	21.83	23.5 0.0
Channel							
Frequency (MHz)							
8490.00							
70	QPSK	1	1	21.81	21.74	21.57	23.5 0.0
Channel							
Frequency (MHz)							
8486.66							
60	QPSK	1	1	21.82	21.78	21.86	23.5 0.0
Channel							
Frequency (MHz)							
8483.34							
50	QPSK	1	1	21.88	21.81	21.80	23.5 0.0
Channel							
Frequency (MHz)							
8480.00							
40	QPSK	1	1	21.89	21.80	21.80	23.5 0.0
Channel							
Frequency (MHz)							
8476.66							
30	QPSK	1	1	21.72	21.84	21.80	23.5 0.0
Channel							
Frequency (MHz)							
8473.34							
20	QPSK	1	1	21.84	21.76	21.87	23.5 0.0



Part27Q n77 PC3 Ant0									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Frequency (MHz)	Tune-up Int. (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
100	PLQ BPSK	1	1	21.79	21.79	21.79			
100	PLQ BPSK	1	137	21.70	21.70	21.70		23.5	0.0
100	PLQ BPSK	1	273	21.69	21.69	21.69			
100	PLQ BPSK	135	0	21.88	21.88	21.88			
100	PLQ BPSK	135	69	21.91	21.91	21.91		23.5	0.0
100	PLQ BPSK	135	138	21.94	21.94	21.94			
100	PLQ BPSK	270	0	21.92	21.92	21.92		23.0	0.5
100	QPSK	1	1	22.04	22.04	22.04			
100	QPSK	1	137	22.00	22.00	22.00			
100	QPSK	1	273	21.81	21.81	21.81		23.5	0.0
100	QPSK	135	0	21.78	21.78	21.78			
100	QPSK	135	69	22.00	22.00	22.00		23.5	0.0
100	QPSK	135	138	20.99	20.99	20.99			
100	QPSK	270	0	21.4	21.4	21.4		23.2	0.5
100	MSK4M	1	1	21.04	21.04	21.04			
100	MSK4M	1	1	19.59	19.59	19.59		24.9	2.5
100	MSK4M	1	1	17.88	17.88	17.88		19.0	4.5
Channel									
Frequency (MHz)									
83300 83334 83368 Tune-up Int. (dBm) MPR									
50	QPSK	1	1	20.90	20.90	20.90			
50	QPSK	1	1	20.75	21.81	21.87		23.5	0.0
Channel									
Frequency (MHz)									
83368 83334 83400 Tune-up Int. (dBm) MPR									
80	QPSK	1	1	21.70	21.72	21.87		23.5	0.0
80	QPSK	1	1	21.63	21.89	21.80		23.5	0.0
70	QPSK	1	1	21.83	21.74	21.80		23.5	0.0
Channel									
Frequency (MHz)									
83500 83534 83568 Tune-up Int. (dBm) MPR									
60	QPSK	1	1	21.60	21.60	21.60			
60	QPSK	1	1	21.51	21.81	21.87		23.5	0.0
Channel									
Frequency (MHz)									
83568 83534 83600 Tune-up Int. (dBm) MPR									
40	QPSK	1	1	21.68	21.68	21.68			
40	QPSK	1	1	21.60	21.87	21.80		23.5	0.0
Channel									
Frequency (MHz)									
83700 83634 83668 Tune-up Int. (dBm) MPR									
30	QPSK	1	1	21.54	21.54	21.54			
30	QPSK	1	1	21.44	21.61	21.67		23.5	0.0
Channel									
Frequency (MHz)									
83768 83734 83768 Tune-up Int. (dBm) MPR									
20	QPSK	1	1	21.70	21.69	21.68		23.5	0.0

Part27O n78 PC3 Ant0									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Frequency (MHz)	Tune-up Int. (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
100	PLQ BPSK	1	1	21.84	21.84	21.84			
100	PLQ BPSK	1	137	21.08	21.08	21.08		23.5	0.0
100	PLQ BPSK	1	273	21.64	21.64	21.64			
100	PLQ BPSK	135	0	21.91	21.91	21.91		23.5	0.0
100	PLQ BPSK	135	69	21.79	21.79	21.79		23.5	0.0
100	PLQ BPSK	135	138	21.87	21.87	21.87			
100	PLQ BPSK	270	0	21.74	21.74	21.74		23.0	0.0
100	QPSK	1	1	22.04	22.04	22.04			
100	QPSK	1	137	21.89	21.89	21.89			
100	QPSK	1	273	21.78	21.78	21.78		23.5	0.0
100	QPSK	135	0	21.80	21.80	21.80		23.5	0.0
100	QPSK	135	69	21.79	21.79	21.79		23.5	0.0
100	QPSK	135	138	21.93	21.93	21.93			
100	QPSK	270	0	21.59	21.59	21.59		23.5	0.0
100	MSK4M	1	1	21.05	21.05	21.05			
100	MSK4M	1	1	19.59	19.59	19.59		24.9	1.0
100	MSK4M	1	1	19.01	19.01	19.01		23.5	3.5
Channel									
Frequency (MHz)									
84868 85000 85034 Tune-up Int. (dBm) MPR									
50	QPSK	1	1	21.62	21.68	21.64		23.5	0.0
Channel									
Frequency (MHz)									
84934 85000 85068 Tune-up Int. (dBm) MPR									
80	QPSK	1	1	21.65	21.64	21.80		23.5	0.0
80	QPSK	1	1	21.60	21.89	21.80		23.5	0.0
70	QPSK	1	1	21.85	21.81	21.87		23.5	0.0
Channel									
Frequency (MHz)									
84968 84934 85000 Tune-up Int. (dBm) MPR									
60	QPSK	1	1	21.53	21.53	21.53			
60	QPSK	1	1	21.41	21.69	21.58		23.5	0.0
Channel									
Frequency (MHz)									
85034 85000 85068 Tune-up Int. (dBm) MPR									
40	QPSK	1	1	21.52	21.58	21.50		23.5	0.0
40	QPSK	1	1	21.45	21.87	21.80		23.5	0.0
Channel									
Frequency (MHz)									
85068 85000 85100 Tune-up Int. (dBm) MPR									
30	QPSK	1	1	21.53	21.53	21.53			
30	QPSK	1	1	21.44	21.61	21.67		23.5	0.0
Channel									
Frequency (MHz)									
85134 85000 85068 Tune-up Int. (dBm) MPR									
20	QPSK	1	1	21.60	21.64	21.64		23.5	0.0

Part27O n78 PC2 Ant0									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Frequency (MHz)	Tune-up Int. (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
100	PLQ BPSK	1	1	21.28	21.28	21.28			
100	PLQ BPSK	1	137	21.42	21.42	21.42			
100	PLQ BPSK	1	273	21.62	21.62	21.62			
100	PLQ BPSK	135	0	22.07	22.07	22.07		24.5	0.5
100	PLQ BPSK	135	69	21.24	21.24	21.24		25.0	0.0
100	PLQ BPSK	135	138	22.04	22.04	22.04		24.5	0.5
100	PLQ BPSK	270	0	21.09	21.09	21.09		24.5	0.0
100	QPSK	1	1	21.46	21.46	21.46		25.0	0.0
100	QPSK	1	137	21.14	21.14	21.14			
100	QPSK	1	273	21.45	21.45	21.45		24.5	1.0
100	QPSK	135	0	22.33	22.33	22.33		25.0	0.0
100	QPSK	135	69	22.05	22.05	22.05		24.5	1.0
100	QPSK	135	138	21.99	21.99	21.99		24.5	1.0
100	QPSK	270	0	22.3	22.3	22.3		24.5	1.0
100	MSK4M	1	1	21.00	21.00	21.00			
100	MSK4M	1	1	19.77	19.77	19.77		24.5	2.5
100	MSK4M	1	1	19.88	19.88	19.88		23.5	4.5
Channel									
Frequency (MHz)									
84868 85000 85034 Tune-up Int. (dBm) MPR									
50	QPSK	1	1	21.32	21.30	21.34		23.5	0.0
Channel									
Frequency (MHz)									
84934 85000 85068 Tune-up Int. (dBm) MPR									
80	QPSK	1	1	21.28	21.24	21.18		23.0	0.0
80	QPSK	1	1	21.28	21.24	21.18		23.0	0.0
70	QPSK	1	1	21.29	21.18	21.22		23.0	0.0
Channel									
Frequency (MHz)									
84968 84934 85000 Tune-up Int. (dBm) MPR									
60	QPSK	1	1	21.30	21.24	21.29		23.0	0.0
Channel									
Frequency (MHz)									
85034 85000 85068 Tune-up Int. (dBm) MPR									
40	QPSK	1	1	21.11	21.23	21.36		23.0	0.0
40	QPSK	1	1	21.00	21.00	21.00		23.0	0.0
Channel									
Frequency (MHz)									
85068 85000 85100 Tune-up Int. (dBm) MPR									
30	QPSK	1	1	21.27	21.29	21.32		23.0	0.0
30	QPSK	1	1	21.20	21.25	21.29		23.0	0.0
Channel									
Frequency (MHz)									
85134 85000 85068 Tune-up Int. (dBm) MPR									
20	QPSK	1	1	21.22	21.09	21.20		23.0	0.0



Part27Q 78 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PB4 BPSK	1	1	2171			
100	PB4 BPSK	1	137	2187			23.5
100	PB4 BPSK	1	271	2153			
100	PB4 BPSK	135	5	2188			24.5
100	PB4 BPSK	135	69	2184			25.0
100	PB4 BPSK	135	135	2171			24.5
100	PB4 BPSK	270	5	2155			25.0
100	QPSK	1	1	2250			
100	QPSK	1	137	2184			23.5
100	QPSK	1	271	2183			
100	QPSK	135	5	2188			23.5
100	QPSK	135	69	2183			24.5
100	QPSK	135	138	2158			24.5
100	QPSK	270	5	2154			24.5
100	MSKAM	1	1	2150			25.0
100	MSKAM	1	1	2143			24.8
100	MSKAM	1	1	1937			19.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	2175	2177	2188	23.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	2170	2173	2170	23.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	2173	2188	2175	23.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	2170	2177	2170	23.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	2188	2188	2188	23.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	2154	2154	2154	23.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	2171	2172	2163	23.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	2157	2156	2156	23.5

Part27Q 78 PC2 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PB4 BPSK	1	1	2221			
100	PB4 BPSK	1	137	2157			25.0
100	PB4 BPSK	1	271	2214			24.5
100	PB4 BPSK	135	5	2215			25.0
100	PB4 BPSK	135	69	2208			25.0
100	PB4 BPSK	135	135	2221			24.5
100	PB4 BPSK	270	5	2157			25.0
100	QPSK	1	1	2330			25.0
100	QPSK	1	137	2223			24.5
100	QPSK	1	271	2227			24.5
100	QPSK	135	5	2216			25.0
100	QPSK	135	69	2219			24.5
100	QPSK	135	138	2170			24.5
100	QPSK	270	5	2224			24.5
100	MSKAM	1	1	2175			25.0
100	MSKAM	1	1	2088			22.5
100	MSKAM	1	1	1873			18.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2310	2323	2320	25.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2317	2325	2329	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2320	2329	2328	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2319	2328	2319	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2322	2321	2321	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2327	2323	2329	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2314	2328	2329	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2312	2329	2317	25.0



n5 Ant1								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)
Channel				16500	16700	16900		
Frequency (MHz)				164	168	172		
20	PI2 BPSK	1	1	20.03	20.03	19.92		
20	PI2 BPSK	1	93	20.05	20.05	19.94	20.5	0.0
20	PI2 BPSK	1	104	20.03	20	19.94		
20	PI2 BPSK	50	0	19.97	19.93	19.81	20.5	0.0
20	PI2 BPSK	50	28	20.00	20.04	19.81	20.5	0.0
20	PI2 BPSK	50	56	19.96	20.04	19.85		
20	PI2 BPSK	100	0	20.12	20.04	20.04	20.5	0.0
20	QPSK	1	1	20.12	20.11	20.03		
20	QPSK	1	93	20.05	20.12	19.95	20.5	0.0
20	QPSK	1	104	20	19.98	19.98		
20	QPSK	50	0	19.94	20.15	19.88	20.5	0.0
20	QPSK	50	28	20.02	20.17	19.93	20.5	0.0
20	QPSK	50	56	19.98	20.07	20.02		
20	QPSK	100	0	19.95	20.05	19.90	20.5	0.0
20	16QAM	1	1	19.99	20.04	19.93	20.5	0.0
20	16QAM	1	1	19.99	20.04	19.92	20.5	0.0
20	16QAM	1	1	20.14	20.04	19.98	20.5	0.0
Channel				16950	17200	16950	Time-up limit	MPR
Frequency (MHz)				169.5	172	169.5	limit	limit
15	QPSK	1	1	20.00	20.11	19.95	20.5	0.0
Channel				16980	17200	16980	Time-up limit	MPR
Frequency (MHz)				169.8	172	169.8	limit	limit
10	QPSK	1	1	20.05	20.15	19.94	20.5	0.0
Channel				16500	16700	16500	Time-up limit	MPR
Frequency (MHz)				165	168	165	limit	limit
5	QPSK	1	1	19.96	20.05	19.95	20.5	0.0



n7 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Mixer Ch. / Freq.	Power Amp Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	23.15	23.23	23.31	24.0	0.0		
50	PI2 BPSK	1	136	22.27	22.33	22.32	24.0	0.0		
50	PI2 BPSK	1	268	22.21	22.31	22.17	23.5	0.5		
50	PI2 BPSK	136	3	21.87	21.93	21.84	23.5	0.5		
50	PI2 BPSK	136	68	22.28	22.43	22.28	24.0	0.0		
50	PI2 BPSK	136	136	21.84	21.96	21.86	23.5	0.5		
50	PI2 BPSK	272	3	21.88	21.85	21.84	23.5	0.5		
50	QPSK	1	1	22.48	22.68	22.52	24.0	0.0		
50	QPSK	1	136	22.25	22.32	22.32	24.0	0.0		
50	QPSK	1	268	22.23	22.32	22.20	24.0	0.0		
50	QPSK	136	3	21.27	21.38	21.31	23.0	1.0		
50	QPSK	136	68	22.15	22.28	22.21	24.0	0.0		
50	QPSK	136	136	21.31	21.47	21.36	23.0	1.0		
50	QPSK	272	3	21.46	21.56	21.36	23.0	1.0		
50	IQMAM	1	1	21.34	21.45	21.36	23.0	1.0		
50	IQMAM	1	1	19.67	19.77	19.83	21.5	2.5		
50	IQMAM	1	1	17.88	17.98	17.83	19.5	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.44	22.52	22.41	24.0	0.0		
30	QPSK	1	1	22.43	22.55	22.34	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.43	22.55	22.34	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.31	22.61	22.53	24.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	22.34	22.56	22.38	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.12	22.47	22.48	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.16	22.63	22.42	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.27	22.57	22.43	24.0	0.0		

n66 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Mixer Ch. / Freq.	Power Amp Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	24.48	24.53	24.52	25.5	0.0		
40	PI2 BPSK	1	108	24.52	24.48	24.54	25.5	0.0		
40	PI2 BPSK	1	214	24.49	24.54	24.80	25.0	0.5		
40	PI2 BPSK	108	3	24.11	24.53	24.97	25.0	0.5		
40	PI2 BPSK	108	64	24.49	24.47	24.48	25.5	0.0		
40	PI2 BPSK	108	108	24.15	24.53	24.11	25.0	0.5		
40	PI2 BPSK	216	3	23.57	24.07	24.55	25.0	0.5		
40	QPSK	1	1	24.54	24.61	24.88	25.5	0.0		
40	QPSK	1	108	24.55	24.53	24.42	25.5	0.0		
40	QPSK	1	214	24.48	24.51	24.58	25.5	0.0		
40	QPSK	108	3	23.45	23.45	23.48	24.5	1.0		
40	QPSK	108	64	24.28	24.52	24.38	25.5	0.0		
40	QPSK	108	108	23.77	23.62	23.72	24.5	1.0		
40	QPSK	216	3	23.56	23.59	23.41	24.5	1.0		
40	IQMAM	1	1	23.28	23.31	23.27	24.5	1.0		
40	IQMAM	1	1	22.08	21.97	22.07	23.0	2.5		
40	IQMAM	1	1	18.98	18.83	18.84	21.0	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.42	24.53	24.53	25.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.42	24.55	24.54	25.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.41	24.54	24.55	25.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.42	24.56	24.54	25.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	24.51	24.57	24.50	25.5	0.0		



n38 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	22.65	22.70	22.74			
40	PV2 BPSK	1	53	22.64	22.69	22.73	24.0	0.0	
40	PV2 BPSK	1	104	22.64	22.69	22.73			
40	PV2 BPSK	50	0	22.18	22.19	22.21	23.5	0.5	
40	PV2 BPSK	50	28	22.59	22.60	22.61	24.0	0.0	
40	PV2 BPSK	50	56	22.58	22.59	22.61			
40	PV2 BPSK	100	0	22.25	22.17	22.11	23.5	0.5	
40	QPSK	1	1	22.67	22.74	22.71			
40	QPSK	1	53	22.65	22.64	22.62	24.0	0.0	
40	QPSK	1	104	22.61	22.43	22.53			
40	QPSK	50	0	21.72	21.62	21.62	23.0	1.0	
40	QPSK	50	28	22.60	22.60	22.48	24.0	0.0	
40	QPSK	50	56	22.51	22.50	22.36	23.0	1.0	
40	QPSK	100	0	21.55	21.49	21.54			
40	16QAM	1	1	21.55	21.55	21.55	23.5	1.0	
40	16QAM	1	1	20.29	20.25	20.34	21.5	2.5	
40	256QAM	1	1	18.12	18.11	18.31	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.61	22.62	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.63	22.61	22.68	24.0	0.0	

n41 PC3 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	22.71	22.62	22.82			
100	PV2 BPSK	1	137	22.78	22.82	22.82	24.0	0.0	
100	PV2 BPSK	1	271	22.81	22.72	22.75			
100	PV2 BPSK	136	0	22.19	22.21	22.31	23.5	0.5	
100	PV2 BPSK	136	68	22.71	22.60	22.82	24.0	0.0	
100	PV2 BPSK	136	136	22.64	22.56	22.56			
100	PV2 BPSK	270	0	22.43	22.33	22.31	23.5	0.5	
100	QPSK	1	1	22.73	22.82	22.80			
100	QPSK	1	137	22.68	22.61	22.82	24.0	0.0	
100	QPSK	1	271	22.76	22.73	22.82			
100	QPSK	136	0	21.82	21.66	21.73	23.0	1.0	
100	QPSK	136	68	22.65	22.60	22.81	24.0	0.0	
100	QPSK	136	136	21.85	21.78	21.82	23.0	1.0	
100	QPSK	270	0	21.76	21.66	21.65			
100	16QAM	1	1	21.68	21.75	21.70	23.5	1.0	
100	16QAM	1	1	20.39	20.37	20.34	21.5	2.5	
100	256QAM	1	1	18.38	18.21	18.30	19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.61	22.62	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.70	22.81	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.72	22.77	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.81	22.82	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.88	22.67	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.77	22.60	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.73	22.73	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.69	22.78	22.73	24.0	0.0	



n7 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	17.81	17.81	17.79			
50	P12 BPSK	1	136	17.88	17.88	17.84	19.0	0.0	
50	P12 BPSK	1	268	17.89	17.89	17.84			
50	P12 BPSK	136	0	17.88	17.88	17.81	19.0	0.0	
50	P12 BPSK	136	68	17.81	17.82	17.89	19.0	0.0	
50	P12 BPSK	136	135	17.86	17.86	17.85			
50	P12 BPSK	270	0	17.81	17.81	17.79	19.0	0.0	
50	QPSK	1	1	17.89	17.87	17.90			
50	QPSK	1	136	17.88	17.88	17.79	19.0	0.0	
50	QPSK	1	268	17.80	17.82	17.81			
50	QPSK	136	0	17.88	17.88	17.85	19.0	1.0	
50	QPSK	136	68	17.71	17.80	17.90	19.0	0.0	
50	QPSK	136	135	17.84	17.80	17.71	19.0	1.0	
50	QPSK	270	0	17.86	17.86	17.74			
50	16QAM	1	1	17.79	17.85	17.76	19.0	0.0	
50	16QAM	1	1	17.78	17.80	17.82	19.0	0.0	
50	16QAM	1	1	17.37	17.53	17.40	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.80	17.80	17.91	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.88	17.81	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.82	17.89	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	17.79	17.82	17.89	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.77	17.82	17.89	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.76	17.80	17.80	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.51	17.84	17.74	19.0	0.0	

n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.37	19.40	19.39			
40	P12 BPSK	1	108	19.58	19.57	19.37	20.0	0.0	
40	P12 BPSK	1	214	19.47	19.60	19.53			
40	P12 BPSK	108	0	19.58	19.53	19.50	20.0	0.0	
40	P12 BPSK	108	54	19.48	19.70	19.45	20.0	0.0	
40	P12 BPSK	108	108	19.46	19.71	19.47			
40	P12 BPSK	216	0	19.44	19.71	19.59			
40	QPSK	1	1	19.65	19.91	19.59			
40	QPSK	1	108	19.45	19.84	19.48	20.0	0.0	
40	QPSK	1	214	19.46	19.70	19.46			
40	QPSK	108	0	19.45	19.86	19.53	20.0	0.0	
40	QPSK	108	54	19.45	19.80	19.56	20.0	0.0	
40	QPSK	108	108	19.69	19.70	19.53	20.0	0.0	
40	QPSK	216	0	19.44	19.69	19.55			
40	16QAM	1	1	19.57	19.85	19.46	20.0	0.0	
40	16QAM	1	1	19.67	19.68	19.49	20.0	0.0	
40	16QAM	1	1	19.15	19.31	19.10	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.60	19.40	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.65	19.81	19.53	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.58	19.91	19.58	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.54	19.83	19.59	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.61	19.74	19.42	20.0	0.0	



n38 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PQ2BPSK	1	1	16.72	17.12	17.27			
40	PQ2BPSK	1	53	16.98	17.17	16.97	18.5	0.0	
40	PQ2BPSK	1	104	16.80	17.03	17.02			
40	PQ2BPSK	50	0	16.88	17.09	17.08	18.5	0.0	
40	PQ2BPSK	50	28	16.92	17.12	17.05	18.5	0.0	
40	PQ2BPSK	50	56	16.95	17.15	17.06	18.5	0.0	
40	PQ2BPSK	100	0	16.90	17.13	17.06			
40	QPSK	1	1	17.00	17.17	17.13			
40	QPSK	1	53	16.98	17.00	17.13	18.5	0.0	
40	QPSK	1	104	16.95	16.90	17.00			
40	QPSK	50	0	16.91	17.05	17.02	18.5	0.0	
40	QPSK	50	28	16.95	17.11	16.93	18.5	0.0	
40	QPSK	50	56	16.92	17.07	17.09	18.5	0.0	
40	QPSK	100	0	16.95	17.00	17.00			
40	16QAM	1	1	16.92	16.90	16.96	18.5	0.0	
40	16QAM	1	1	16.84	16.90	17.11	18.5	0.0	
40	256QAM	1	1	16.88	17.11	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.00	17.00	17.00	Time-up limit (dB)	MFR (dB)	
30	QPSK	1	1	17.04	17.13	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.97	17.12	17.13	18.5	0.0	

n41 PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PQ2BPSK	1	1	17.17	16.80	17.13			
100	PQ2BPSK	1	137	17.10	17.14	16.97	18.5	0.0	
100	PQ2BPSK	1	271	16.97	17.10	17.11			
100	PQ2BPSK	136	0	16.99	17.12	17.00	18.5	0.0	
100	PQ2BPSK	136	66	17.15	17.00	16.93	18.5	0.0	
100	PQ2BPSK	136	136	17.05	17.05	17.00	18.5	0.0	
100	PQ2BPSK	270	0	17.14	17.05	17.00			
100	QPSK	1	1	17.16	17.10	17.15			
100	QPSK	1	137	16.90	17.11	17.00	18.5	0.0	
100	QPSK	1	271	17.11	17.12	17.14			
100	QPSK	136	0	17.10	17.04	17.06	18.5	0.0	
100	QPSK	136	66	17.07	17.11	17.05	18.5	0.0	
100	QPSK	136	136	17.10	17.04	17.10	18.5	0.0	
100	QPSK	270	0	16.95	17.00	16.97			
100	16QAM	1	1	16.98	17.01	17.00	18.5	0.0	
100	16QAM	1	1	17.14	17.01	17.04	18.5	0.0	
100	256QAM	1	1	17.05	17.03	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.03	16.92	16.93	Time-up limit (dB)	MFR (dB)	
50	QPSK	1	1	17.05	17.00	17.02	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.03	16.97	16.93	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.03	17.14	17.17	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.08	17.11	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.10	17.04	17.12	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.97	17.00	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.14	17.17	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.03	17.00	17.15	18.5	0.0	



n7 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	1571	1584	1571			
50	P12 BPSK	1	136	1579	1550	1584	16.5	0.0	
50	P12 BPSK	1	268	1569	1552	1584			
50	P12 BPSK	136	0	1568	1588	1577	16.5	0.0	
50	P12 BPSK	136	68	1561	1560	1579	16.5	0.0	
50	P12 BPSK	136	135	1574	1566	1572			
50	P12 BPSK	270	0	1572	1555	1588	16.5	0.0	
50	QPSK	1	1	1580	1582	1587			
50	QPSK	1	135	1582	1581	1574	16.5	0.0	
50	QPSK	1	268	1586	1588	1571			
50	QPSK	135	0	1583	1585	1572	15.5	1.0	
50	QPSK	136	68	1571	1591	1574	16.5	0.0	
50	QPSK	136	135	1559	1587	1586	15.5	1.0	
50	QPSK	270	0	1586	1588	1587			
50	16QAM	1	1	1579	1558	1582	16.5	0.0	
50	16QAM	1	1	1568	1560	1575	16.5	0.0	
50	256QAM	1	1	1581	1581	1581	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	1573	1582	1584	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1571	1584	1578	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	1582	1582	1585	16.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	1571	1582	1574	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1578	1584	1585	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1574	1573	1595	16.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1573	1592	1573	16.5	0.0	

n66 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	1576	1584	1572			
40	P12 BPSK	1	108	1583	1591	1579	17.0	0.0	
40	P12 BPSK	1	214	1572	1588	1584			
40	P12 BPSK	108	0	1581	1581	1573	17.0	0.0	
40	P12 BPSK	108	54	1584	1584	1581	17.0	0.0	
40	P12 BPSK	108	108	1576	1586	1586			
40	P12 BPSK	216	0	1585	1585	1579	17.0	0.0	
40	QPSK	1	1	1592	1598	1584			
40	QPSK	1	108	1573	1571	1586	17.0	0.0	
40	QPSK	1	214	1579	1578	1572			
40	QPSK	108	0	1581	1582	1584	17.0	0.0	
40	QPSK	108	54	1587	1588	1586	17.0	0.0	
40	QPSK	108	108	1591	1578	1579	17.0	0.0	
40	QPSK	216	0	1586	1588	1586			
40	16QAM	1	1	1580	1584	1583	17.0	0.0	
40	16QAM	1	1	1589	1575	1572	17.0	0.0	
40	256QAM	1	1	1578	1581	1579	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1582	1575	1578	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1584	1585	1578	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1571	1591	1582	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1592	1596	1581	17.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1572	1596	1580	17.0	0.0	



n38 Ant5									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up (m)	MFR (dB)	
Channel									
Frequency (MHz)									
				54900	54900	54900			
40	PQ2BPSK	1	1	18.76	18.80	17.99			
40	PQ2BPSK	1	53	17.88	18.00	17.79	18.5	0.0	
40	PQ2BPSK	1	104	17.98	17.87	17.72			
40	PQ2BPSK	50	0	17.99	18.10	17.88	18.5	0.0	
40	PQ2BPSK	50	28	17.93	18.10	17.84	18.5	0.0	
40	PQ2BPSK	50	56	18.00	18.14	17.84			
40	PQ2BPSK	100	0	17.98	18.05	17.78	18.5	0.0	
40	QPSK	1	1	18.04	18.17	17.87			
40	QPSK	1	53	17.97	18.21	17.82	18.5	0.0	
40	QPSK	1	104	18.05	18.10	17.83			
40	QPSK	50	0	17.89	18.05	17.79	18.5	0.0	
40	QPSK	50	28	17.90	18.10	17.85	18.5	0.0	
40	QPSK	50	56	17.88	18.00	17.74			
40	QPSK	100	0	17.96	18.00	17.66	18.5	0.0	
40	16QAM	1	1	17.94	18.07	17.70	18.5	0.0	
40	16QAM	1	1	17.85	18.04	17.73	18.5	0.0	
40	256QAM	1	1	17.83	17.88	17.88	18.5	0.0	
Channel									
Frequency (MHz)									
				51900	51900	51900	Take-up (m)	MFR	
				25000	25000	25000	(dB)		
30	QPSK	1	1	17.91	18.10	17.85	18.5	0.0	
Channel									
Frequency (MHz)									
				51800	51800	52000	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
30	QPSK	1	1	18.03	18.00	17.82	18.5	0.0	

n41 PC3 Ant5									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up (m)	MFR (dB)	
Channel									
Frequency (MHz)									
				2048.01	2092.90	2040			
100	PQ2BPSK	1	1	17.52	18.00	17.90			
100	PQ2BPSK	1	137	17.97	18.00	17.89	18.5	0.0	
100	PQ2BPSK	1	271	17.78	18.11	17.75			
100	PQ2BPSK	136	0	17.88	18.00	17.74	18.5	0.0	
100	PQ2BPSK	136	66	17.94	18.02	17.86	18.5	0.0	
100	PQ2BPSK	136	136	18.00	18.10	17.85			
100	PQ2BPSK	270	0	18.00	18.05	17.85	18.5	0.0	
100	QPSK	1	1	18.00	18.10	17.85			
100	QPSK	1	137	17.85	18.10	17.80	18.5	0.0	
100	QPSK	1	271	17.94	18.00	17.86			
100	QPSK	136	0	17.96	18.02	17.86	18.5	0.0	
100	QPSK	136	66	17.92	18.10	17.75	18.5	0.0	
100	QPSK	136	136	17.89	18.14	17.80			
100	QPSK	270	0	18.00	18.05	17.82	18.5	0.0	
100	16QAM	1	1	17.98	18.07	17.70	18.5	0.0	
100	16QAM	1	1	17.85	18.00	17.80	18.5	0.0	
100	256QAM	1	1	17.97	18.00	17.79	18.5	0.0	
Channel									
Frequency (MHz)									
				52800	51898	52890	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
30	QPSK	1	1	17.83	18.00	17.97	18.5	0.0	
Channel									
Frequency (MHz)									
				52704	51898	52998	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
30	QPSK	1	1	17.99	17.85	17.84	18.5	0.0	
Channel									
Frequency (MHz)									
				52600	51898	53100	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
30	QPSK	1	1	17.87	18.12	17.77	18.5	0.0	
Channel									
Frequency (MHz)									
				52500	51898	53198	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
60	QPSK	1	1	17.92	18.11	17.76	18.5	0.0	
Channel									
Frequency (MHz)									
				52400	51898	53200	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
50	QPSK	1	1	17.90	18.11	17.85	18.5	0.0	
Channel									
Frequency (MHz)									
				52300	51898	53300	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
40	QPSK	1	1	17.90	18.00	17.80	18.5	0.0	
Channel									
Frequency (MHz)									
				52200	51898	53400	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
30	QPSK	1	1	17.88	18.00	17.87	18.5	0.0	
Channel									
Frequency (MHz)									
				52104	51898	53498	Take-up (m)	MFR	
				2500	2500	2500	(dB)		
20	QPSK	1	1	17.90	17.88	17.86	18.5	0.0	



Par270 n77 PC3 Ant9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	15.66	15.53	15.51	15.5	0.0
100	PQ2 BPSK	1	137	13.60	13.53	13.52	15.5	0.0
100	PQ2 BPSK	1	271	13.61	13.50	13.52	15.5	0.0
100	PQ2 BPSK	135	0	13.54	13.54	13.55	15.5	0.0
100	PQ2 BPSK	135	138	13.44	13.41	13.56	15.5	0.0
100	PQ2 BPSK	270	0	13.52	13.54	13.51	15.5	0.0
100	QPSK	1	1	13.56	13.50	13.51	15.5	0.0
100	QPSK	1	137	13.56	13.51	13.54	15.5	0.0
100	QPSK	1	271	13.52	13.54	13.51	15.5	0.0
100	QPSK	135	0	13.52	13.53	13.50	15.5	0.0
100	QPSK	135	138	13.52	13.51	13.52	15.5	0.0
100	QPSK	270	0	13.60	13.55	13.50	15.5	0.0
100	HQAM	1	1	13.51	13.52	13.50	15.5	0.0
100	HQAM	1	1	13.51	13.53	13.50	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.51	13.58	13.55	13.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.50	13.57	13.50	13.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.42	13.43	13.44	13.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.52	13.53	13.50	13.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.52	13.50	13.50	13.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.48	13.48	13.48	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.52	13.50	13.50	13.5	0.0

Part27Q n77 PC3 Ant9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	15.67	15.57	15.57	15.5	0.0
100	PQ2 BPSK	1	137	13.61	13.57	13.57	15.5	0.0
100	PQ2 BPSK	1	271	13.61	13.52	13.57	15.5	0.0
100	PQ2 BPSK	135	0	13.56	13.56	13.56	15.5	0.0
100	PQ2 BPSK	135	138	13.44	13.41	13.56	15.5	0.0
100	PQ2 BPSK	270	0	13.51	13.51	13.53	15.5	0.0
100	QPSK	1	1	13.55	13.55	13.55	15.5	0.0
100	QPSK	1	137	13.51	13.51	13.53	15.5	0.0
100	QPSK	1	271	13.52	13.52	13.52	15.5	0.0
100	QPSK	135	0	13.52	13.52	13.53	15.5	0.0
100	QPSK	135	138	13.50	13.49	13.50	15.5	0.0
100	QPSK	270	0	13.54	13.54	13.55	15.5	0.0
100	HQAM	1	1	13.56	13.56	13.55	15.5	0.0
100	HQAM	1	1	13.47	13.51	13.51	15.5	0.0
100	HQAM	1	1	13.47	13.54	13.54	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.51	13.53	13.50	15.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.52	13.53	13.52	15.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.50	13.50	13.50	15.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.50	13.50	13.50	15.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.53	13.53	13.54	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.50	13.50	13.50	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.55	13.50	13.54	15.5	0.0

Part270 n78 PC2 Ant9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	15.45	15.45	15.45	17.0	0.0
100	PQ2 BPSK	1	137	13.49	13.49	13.49	17.0	0.0
100	PQ2 BPSK	1	271	13.57	13.57	13.57	17.0	0.0
100	PQ2 BPSK	135	0	13.52	13.52	13.52	17.0	0.0
100	PQ2 BPSK	135	138	13.52	13.52	13.52	17.0	0.0
100	PQ2 BPSK	270	0	13.47	13.47	13.47	17.0	0.0
100	QPSK	1	1	13.55	13.55	13.55	17.0	0.0
100	QPSK	1	137	13.48	13.48	13.48	17.0	0.0
100	QPSK	1	271	13.52	13.52	13.52	17.0	0.0
100	QPSK	135	0	13.52	13.52	13.52	17.0	0.0
100	QPSK	135	138	13.52	13.52	13.52	17.0	0.0
100	QPSK	270	0	13.52	13.52	13.52	17.0	0.0
100	HQAM	1	1	13.41	13.41	13.41	17.0	0.0
100	HQAM	1	1	13.47	13.51	13.51	17.0	0.0
100	HQAM	1	1	13.44	13.44	13.44	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.48	13.48	13.48	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.53	13.44	13.48	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.50	13.50	13.50	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.48	13.48	13.48	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.50	13.50	13.50	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.48	13.48	13.48	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.52	13.45	13.41	17.0	0.0

Part270Q n78 PC2 Ant9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	15.38	15.38	15.38	17.0	0.0
100	PQ2 BPSK	1	137	13.52	13.52	13.52	17.0	0.0
100	PQ2 BPSK	1	271	13.61	13.61	13.61	17.0	0.0
100	PQ2 BPSK	135	0	13.43	13.43	13.43	17.0	0.0
100	PQ2 BPSK	135	138	13.43	13.43	13.43	17.0	0.0
100	PQ2 BPSK	270	0	13.45	13.45	13.45	17.0	0.0
100	QPSK	1	1	13.52	13.52	13.52	17.0	0.0
100	QPSK	1	137	13.50	13.50	13.50	17.0	0.0
100	QPSK	1	271	13.52	13.52	13.52	17.0	0.0
100	QPSK	135	0	13.52	13.52	13.52	17.0	0.0
100	QPSK	135	138	13.49	13.49	13.49	17.0	0.0
100	QPSK	270	0	13.47	13.47	13.47	17.0	0.0
100	HQAM	1	1	13.34	13.34	13.34	17.0	0.0
100	HQAM	1	1	13.42	13.42	13.42	17.0	0.0
100	HQAM	1	1	13.41	13.41	13.41	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.50	13.53	13.50	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.44	13.34	13.38	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.50	13.44	13.39	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.24	13.43	13.43	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.44	13.50	13.54	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.50	13.49	13.49	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.52	13.52	13.52	17.0	0.0



Part270 n77 PC3 Ant10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Max Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
100	PLQ-BPSK	1	1	14.25	14.33	13.97			
100	PLQ-BPSK	1	137	14.22	14.34	14.06	15.5	0.0	
100	PLQ-BPSK	1	271	14.20	14.30	14.13			
100	PLQ-BPSK	135	0	14.28	14.30	14.13	15.5	0.0	
100	PLQ-BPSK	135	80	14.21	14.29	14.09	15.5	0.0	
100	PLQ-BPSK	135	138	14.26	14.40	13.96	15.5	0.0	
100	PLQ-BPSK	270	0	14.21	14.24	14.11			
100	QPSK	1	1	14.25	14.30	14.17			
100	QPSK	1	137	14.26	14.28	14.16	15.5	0.0	
100	QPSK	1	271	14.28	14.30	14.18			
100	QPSK	135	0	14.28	14.30	14.13	15.5	0.0	
100	QPSK	135	80	14.21	14.29	14.08	15.5	0.0	
100	QPSK	135	138	14.25	14.24	14.06	15.5	0.0	
100	QPSK	270	0	14.20	14.30	13.97			
100	HQAM	1	1	14.20	14.28	14.08	15.5	0.0	
100	HQAM	1	1	14.25	14.33	14.00	15.5	0.0	
100	HQAM	1	1	14.13	14.31	14.08	15.5	0.0	
Channel									
50	QPSK	1	1	14.25	14.30	13.95	15.5	0.0	
50	QPSK	1	137	14.26	14.28	14.13	15.5	0.0	
50	QPSK	1	271	14.28	14.30	14.18			
50	QPSK	135	0	14.28	14.30	14.13	15.5	0.0	
50	QPSK	135	80	14.21	14.29	14.08	15.5	0.0	
50	QPSK	135	138	14.25	14.24	14.06	15.5	0.0	
50	QPSK	270	0	14.20	14.30	13.97			
50	HQAM	1	1	14.20	14.28	14.08	15.5	0.0	
50	HQAM	1	1	14.25	14.33	14.00	15.5	0.0	
50	HQAM	1	1	14.13	14.31	14.08	15.5	0.0	
Channel									
80	QPSK	1	1	14.24	14.26	14.04	15.5	0.0	
80	QPSK	1	137	14.25	14.27	14.11	15.5	0.0	
80	QPSK	1	271	14.27	14.29	14.15			
80	QPSK	135	0	14.27	14.29	14.11	15.5	0.0	
80	QPSK	135	80	14.20	14.28	14.07	15.5	0.0	
80	QPSK	135	138	14.24	14.23	14.05	15.5	0.0	
80	QPSK	270	0	14.19	14.29	13.96			
80	HQAM	1	1	14.19	14.27	14.07	15.5	0.0	
80	HQAM	1	1	14.24	14.32	14.01	15.5	0.0	
80	HQAM	1	1	14.12	14.30	14.07	15.5	0.0	
Channel									
70	QPSK	1	1	14.25	14.30	14.00	15.5	0.0	
70	QPSK	1	137	14.26	14.28	14.13	15.5	0.0	
70	QPSK	1	271	14.28	14.30	14.18			
70	QPSK	135	0	14.28	14.30	14.13	15.5	0.0	
70	QPSK	135	80	14.21	14.29	14.08	15.5	0.0	
70	QPSK	135	138	14.25	14.24	14.06	15.5	0.0	
70	QPSK	270	0	14.20	14.30	13.97			
70	HQAM	1	1	14.20	14.28	14.08	15.5	0.0	
70	HQAM	1	1	14.25	14.33	14.00	15.5	0.0	
70	HQAM	1	1	14.13	14.31	14.08	15.5	0.0	
Channel									
50	QPSK	1	1	14.24	14.32	14.00	15.5	0.0	
50	QPSK	1	137	14.25	14.27	14.11	15.5	0.0	
50	QPSK	1	271	14.27	14.29	14.15			
50	QPSK	135	0	14.27	14.29	14.11	15.5	0.0	
50	QPSK	135	80	14.20	14.28	14.07	15.5	0.0	
50	QPSK	135	138	14.24	14.23	14.05	15.5	0.0	
50	QPSK	270	0	14.19	14.29	13.96			
50	HQAM	1	1	14.19	14.27	14.07	15.5	0.0	
50	HQAM	1	1	14.24	14.32	14.01	15.5	0.0	
50	HQAM	1	1	14.12	14.30	14.07	15.5	0.0	
Channel									
40	QPSK	1	1	14.25	14.33	14.00	15.5	0.0	
40	QPSK	1	137	14.26	14.28	14.13	15.5	0.0	
40	QPSK	1	271	14.28	14.30	14.18			
40	QPSK	135	0	14.28	14.30	14.13	15.5	0.0	
40	QPSK	135	80	14.21	14.29	14.08	15.5	0.0	
40	QPSK	135	138	14.25	14.24	14.06	15.5	0.0	
40	QPSK	270	0	14.20	14.30	13.97			
40	HQAM	1	1	14.20	14.28	14.08	15.5	0.0	
40	HQAM	1	1	14.25	14.33	14.00	15.5	0.0	
40	HQAM	1	1	14.13	14.31	14.08	15.5	0.0	
Channel									
30	QPSK	1	1	14.25	14.33	14.00	15.5	0.0	
30	QPSK	1	137	14.26	14.28	14.13	15.5	0.0	
30	QPSK	1	271	14.28	14.30	14.18			
30	QPSK	135	0	14.28	14.30	14.13	15.5	0.0	
30	QPSK	135	80	14.21	14.29	14.08	15.5	0.0	
30	QPSK	135	138	14.25	14.24	14.06	15.5	0.0	
30	QPSK	270	0	14.20	14.30	13.97			
30	HQAM	1	1	14.20	14.28	14.08	15.5	0.0	
30	HQAM	1	1	14.25	14.33	14.00	15.5	0.0	
30	HQAM	1	1	14.13	14.31	14.08	15.5	0.0	

Part270Q n77 PC3 Ant10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Max Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
100	PLQ-BPSK	1	1	14.20					
100	PLQ-BPSK	1	137	14.31			15.5	0.0	
100	PLQ-BPSK	1	271	14.28					
100	PLQ-BPSK	135	0	14.22			15.5	0.0	
100	PLQ-BPSK	135	80	14.29			15.5	0.0	
100	PLQ-BPSK	135	138	14.30			15.5	0.0	
100	PLQ-BPSK	270	0	14.24			0.0		
100	QPSK	1	1	14.25					
100	QPSK	1	137	14.15			15.5	0.0	
100	QPSK	1	271	14.24					
100	QPSK	135	0	14.30			15.5	0.0	
100	QPSK	135	80	14.23			15.5	0.0	
100	QPSK	135	138	14.18			15.5	0.0	
100	QPSK	270	0	14.28			15.5	0.0	
100	HQAM	1	1	14.20			15.5	0.0	
100	HQAM	1	1	14.22			15.5	0.0	
100	HQAM	1	1	14.25			15.5	0.0	
100	HQAM	1	1	14.25			15.5	0.0	
Channel									
50	QPSK	1	1	14.30	14.33	14.30	MPR		
50	QPSK	1	137	14.10	14.30	13.91	15.5	0.0	
50	QPSK	1	271	14.30			MPR		
50	QPSK	135	0	14.30	14.33	14.30	MPR		
50	QPSK	135	80	14.25	14.32	14.25	MPR		
50	QPSK	135	138	14.28	14.31	14.28	MPR		
50	QPSK	270	0	14.33			MPR		
50	HQAM	1	1	14.25	14.32	14.25	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		
50	HQAM	1	1	14.30	14.33	14.30	MPR		

Part270Q n78 PC2 Ant10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Max Ch.1 Freq.	Power High Ch.1 Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
100	PLQ-BPSK	1	1	14.20					
100	PLQ-BPSK	1	137	14.21			17.0	0.0	
100	PLQ-BPSK	1	271	14.28					
100	PLQ-BPSK	135	0	14.24			17.0	0.0	
100	PLQ-BPSK	135	80	14.29			17.0	0.0	
100	PLQ-BPSK	135	138	14.26			17.0	0.0	
100	PLQ-BPSK	270	0	14.20			17.0	0.0	
100	QPSK	1	1	14.25					
100	QPSK	1	137	14.33			17.0	0.0	
100	QPSK	1	271	14.28					
100	QPSK	135	0	14.22			17.0	0.0	
100	QPSK	135	80	14.29			17.0	0.0	
100	QPSK	135	138	14.24			17.0	0.0	
100	QPSK	270	0	14.25			17.0	0.0	
100	HQAM	1	1	14.20			17.0	0.0	
100	HQAM	1	1	14.22			17.0	0.0	
100	HQAM	1	1	14.25			17.0	0.0	
100	HQAM	1	1	14.25			17.0	0.0	
Channel									
50	QPSK	1	1	14.31	14.30	14.34	MPR		
50	QPSK	1	137	14.21	14.30	14.24	17.0	0.0	
50	QPSK	1	271	14.31			MPR		
50	QPSK	135	0	14.31	14.30	14.34	MPR		
50	QPSK	135	80	14.26	14.32	14.28	MPR		
50	QPSK	135	138	14.29	14.31	14.31	MPR		
50	QPSK	270	0	14.30			MPR		
50									



Par270 n77 PC3 Ant11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Midea Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dbs)	MPR (db)
Channel								
Frequency (MHz)								
100	P102BPSK	1	1	18.45	17.93	17.94		
100	P102BPSK	1	137	17.02	17.04	17.05	18.5	0.0
100	P102BPSK	1	271	17.09	17.21	17.29		
100	P102BPSK	135	0	17.09	18.39	17.09	18.5	0.0
100	P102BPSK	135	98	18.25	18.30	18.30	18.5	0.0
100	P102BPSK	135	138	18.29	17.12	17.05	18.5	0.0
100	P102BPSK	270	0	17.06	17.19	17.09		
100	QPSK	1	1	17.15	17.22	17.15		
100	QPSK	1	137	17.11	18.39	17.16	18.5	0.0
100	QPSK	1	271	18.40	17.02	17.05		
100	QPSK	135	0	17.09	17.70	17.05	18.5	0.0
100	QPSK	135	98	18.25	17.77	17.05	18.5	0.0
100	QPSK	135	138	18.29	18.39	17.05	18.5	0.0
100	QPSK	270	0	18.05	17.10	17.14		
100	HQAM	1	1	17.05	17.14	17.13	18.5	0.0
100	HQAM	1	1	18.29	17.24	18.25	18.5	0.0
100	HQAM	1	1	18.29	17.70	17.76	18.5	0.0
Channel								
40	QPSK	1	1	17.11	17.13	18.36	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.07	17.05	18.00	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.20	17.24	18.21	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.02	17.04	17.05	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.03	18.00	18.03	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.28	17.06	17.22	18.5	0.0

Part270q n77 PC3 Ant11

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Midea Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dbs)	MPR (db)
Channel								
Frequency (MHz)								
100	P102BPSK	1	1	18.47				
100	P102BPSK	1	137	18.24		18.5	0.0	
100	P102BPSK	1	271	17.05		18.5	0.0	
100	P102BPSK	135	0	18.25		18.5	0.0	
100	P102BPSK	135	98	18.25		18.5	0.0	
100	P102BPSK	135	138	18.24		18.5	0.0	
100	P102BPSK	270	0	17.10				
100	QPSK	1	1	17.15		18.5	0.0	
100	QPSK	1	137	17.00		18.5	0.0	
100	QPSK	1	271	17.00		18.5	0.0	
100	QPSK	135	0	18.25		18.5	0.0	
100	QPSK	135	98	18.25		18.5	0.0	
100	QPSK	135	138	18.24		18.5	0.0	
100	QPSK	270	0	17.10		18.5	0.0	
100	HQAM	1	1	17.13		18.5	0.0	
100	HQAM	1	1	18.25		18.5	0.0	
100	HQAM	1	1	18.25		18.5	0.0	
Channel								
40	QPSK	1	1	17.04	18.36	17.04	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.00	17.05	17.05	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.02	17.12	18.04	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.00	18.03	18.00	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.03	18.00	18.03	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.28	17.06	18.28	18.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Midea Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dbs)	MPR (db)
Channel								
Frequency (MHz)								
100	P102BPSK	1	1	18.22		18.0	0.0	
100	P102BPSK	1	137	18.46		18.0	0.0	
100	P102BPSK	1	271	18.24		18.0	0.0	
100	P102BPSK	135	0	18.25		18.0	0.0	
100	P102BPSK	135	98	18.24		18.0	0.0	
100	P102BPSK	135	138	18.23		18.0	0.0	
100	P102BPSK	270	0	18.20		18.0	0.0	
100	QPSK	1	1	18.22		18.0	0.0	
100	QPSK	1	137	18.28		18.0	0.0	
100	QPSK	1	271	18.07		18.0	0.0	
100	QPSK	135	0	18.25		18.0	0.0	
100	QPSK	135	98	18.25		18.0	0.0	
100	QPSK	135	138	18.25		18.0	0.0	
100	QPSK	270	0	18.20		18.0	0.0	
100	HQAM	1	1	18.22		18.0	0.0	
100	HQAM	1	1	18.22		18.0	0.0	
100	HQAM	1	1	18.20		18.0	0.0	
Channel								
40	QPSK	1	1	18.25	18.00	18.00	18.0	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.03	18.00	18.00	18.0	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.32	18.04	18.04	18.0	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.00	18.00	18.00	18.0	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.25	18.25	18.00	18.0	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.03	18.00	18.00	18.0	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.40	18.27	18.24	18.0	MPR

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq.)	Power Midea Ch. (Freq.)	Power High Ch. (Freq.)	Turn-up time (dbs)	MPR (db)
Channel								
Frequency (MHz)								
100	P102BPSK	1	1	18.45				
100	P102BPSK	1	137	18.27		18.0	0.0	
100	P102BPSK	1	271	18.40		18.0	0.0	
100	P102BPSK	135	0	18.25		18.0	0.0	
100	P102BPSK	135	98	18.25		18.0	0.0	
100	P102BPSK	135	138	18.24		18.0	0.0	
100	P102BPSK	270	0	18.20		18.0	0.0	
100	QPSK	1	1	18.22		18.0	0.0	
100	QPSK	1	137	18.40		18.0	0.0	
100	QPSK	1	271	18.21		18.0	0.0	
100	QPSK	135	0	18.25		18.0	0.0	
100	QPSK	135	98	18.25		18.0	0.0	
100	QPSK	135	138	18.40		18.0	0.0	
100	QPSK	270	0	18.20		18.0	0.0	
100	HQAM	1	1	18.22		18.0	0.0	
100	HQAM	1	1	18.24		18.0	0.0	
100	HQAM	1	1	18.24		18.0	0.0	
Channel								
40	QPSK	1	1	18.00	18.34	18.00	18.0	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.46	18.25	18.25	18.0	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.45	18.23	18.23	18.0	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.47	18.44	18.33	18.0	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.48	18.23	18.23	18.0	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.45	18.26	18.26	18.0	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.40	18.27	18.24	18.0	MPR



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n7 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Take-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Media Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)				50500	50700	51000		
40	PSSBFSK	1	1	15.13	15.42	15.87	17.0	0.0
40	PSSBFSK	1	108	15.44	15.70	15.87	17.0	0.0
40	PSSBFSK	1	214	15.75	15.81	15.90		
40	PSSBFSK	108	0	15.85	15.88	15.88	17.0	0.0
40	PSSBFSK	108	54	15.89	15.82	15.80	17.0	0.0
40	PSSBFSK	108	108	15.81	15.71	15.88		
40	PSSBFSK	216	0	15.81	15.69	15.82	17.0	0.0
40	QPSK	1	1	15.76	15.85	15.85		
40	QPSK	1	108	15.58	15.53	15.59	17.0	0.0
40	QPSK	1	214	15.58	15.80	15.87		
40	QPSK	108	0	15.76	15.71	15.90	18.0	1.0
40	QPSK	108	54	15.81	15.84	15.83	17.0	0.0
40	QPSK	108	108	15.71	15.72	15.84	18.0	1.0
40	QPSK	216	0	15.84	15.85	15.85		
40	16QAM	1	1	15.47	15.60	15.46	17.0	0.0
40	16QAM	1	1	15.46	15.67	15.75	17.0	0.0
40	256QAM	1	1	15.57	15.63	15.53	17.0	0.0
Channel								
Frequency (MHz)				51000	50700	511000		
30	QPSK	1	1	15.77	15.73	15.85	17.0	0.0
Channel								
Frequency (MHz)				50700	50700	511500		
25	QPSK	1	1	15.79	15.85	15.80	17.0	0.0
Channel								
Frequency (MHz)				50700	50700	513000		
20	PSSBFSK	1	1	15.69	15.72	15.44	17.0	0.0
Channel								
Frequency (MHz)				50700	50700	51500		
15	QPSK	1	1	15.71	15.81	15.50	17.0	0.0
Channel								
Frequency (MHz)				51000	50700	516000		
10	QPSK	1	1	15.79	15.73	15.72	17.0	0.0
Channel								
Frequency (MHz)				50650	50700	516500		
5	QPSK	1	1	15.72	15.78	15.65	17.0	0.0

n66 Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Take-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Media Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)				34500	34700	35000		
40	PSSBFSK	1	1	17.24	17.45	17.52		
40	PSSBFSK	1	108	17.45	17.75	17.34	18.0	0.0
40	PSSBFSK	1	214	17.25	17.25	17.41		
40	PSSBFSK	108	0	17.52	17.83	17.49	18.0	0.0
40	PSSBFSK	108	54	17.45	17.61	17.34	18.0	0.0
40	PSSBFSK	108	108	17.28	17.64	17.30		
40	PSSBFSK	216	0	17.35	17.55	17.51	18.0	0.0
40	QPSK	1	1	17.47	17.50	17.50		
40	QPSK	1	108	17.32	17.73	17.22	18.0	0.0
40	QPSK	1	214	17.28	17.53	17.23		
40	QPSK	108	0	17.41	17.63	17.47	18.0	0.0
40	QPSK	108	54	17.37	17.85	17.37	18.0	0.0
40	QPSK	108	108	17.45	17.56	17.53	18.0	0.0
40	QPSK	216	0	17.37	17.65	17.45		
40	16QAM	1	1	17.53	17.78	17.41	18.0	0.0
40	16QAM	1	1	17.57	17.55	17.37	18.0	0.0
40	256QAM	1	1	17.43	17.65	17.52	18.0	0.0
Channel								
Frequency (MHz)				34500	34900	353000		
30	QPSK	1	1	17.59	17.77	17.65	18.0	0.0
Channel								
Frequency (MHz)				34900	34900	354000		
20	QPSK	1	1	17.44	17.81	17.45	18.0	0.0
Channel								
Frequency (MHz)				34900	34900	355000		
15	QPSK	1	1	17.59	17.81	17.49	18.0	0.0
Channel								
Frequency (MHz)				34900	34900	356000		
10	QPSK	1	1	17.35	17.45	17.75	18.0	0.0
Channel								
Frequency (MHz)				34500	34900	356500		
5	QPSK	1	1	17.55	17.77	17.41	18.0	0.0



n38 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PQ-BPSK	1	1	13.75	14.02	13.90			
40	PQ-BPSK	1	53	13.68	13.97	13.88	15.5	0.0	
40	PQ-BPSK	1	104	13.63	13.88	13.91			
40	PQ-BPSK	50	0	13.71	13.85	13.95	15.5	0.0	
40	PQ-BPSK	50	28	13.73	14.01	13.82	15.5	0.0	
40	PQ-BPSK	50	56	13.67	13.87	13.89			
40	PQ-BPSK	100	0	13.74	14.01	13.90	15.5	0.0	
40	QPSK	1	1	13.80	14.10	13.88			
40	QPSK	1	53	13.68	13.80	14.01	15.5	0.0	
40	QPSK	1	104	13.70	13.80	13.72			
40	QPSK	50	0	13.70	13.82	13.87	15.5	0.0	
40	QPSK	50	28	13.63	13.80	13.82	15.5	0.0	
40	QPSK	50	56	13.75	13.82	13.84			
40	QPSK	100	0	13.66	13.87	13.76	15.5	0.0	
40	16QAM	1	1	13.69	13.75	13.77	15.5	0.0	
40	16QAM	1	1	13.60	13.82	13.85	15.5	0.0	
40	256QAM	1	1	13.74	13.83	13.84	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.59	13.82	13.82	Time-up limit (dB)	MFR (dB)	
30	QPSK	1	1	13.59	13.82	13.82	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.63	13.80	13.82	Time-up limit (dB)	MFR (dB)	
30	QPSK	1	1	13.63	13.80	13.82	15.5	0.0	

n41 PC3 Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PQ-BPSK	1	1	14.00	13.80	14.01			
100	PQ-BPSK	1	137	13.93	14.05	13.82	15.5	0.0	
100	PQ-BPSK	1	271	13.88	14.10	13.93			
100	PQ-BPSK	136	0	13.99	14.05	14.04	15.5	0.0	
100	PQ-BPSK	136	66	13.99	13.90	13.72	15.5	0.0	
100	PQ-BPSK	136	136	13.96	14.06	13.86			
100	PQ-BPSK	270	0	14.10	13.85	14.11	15.5	0.0	
100	QPSK	1	1	14.04	14.15	14.00			
100	QPSK	1	137	13.96	14.10	14.07	15.5	0.0	
100	QPSK	1	271	13.95	14.13	13.94			
100	QPSK	136	0	14.10	14.11	14.01	15.5	0.0	
100	QPSK	136	66	13.97	14.02	13.96	15.5	0.0	
100	QPSK	136	136	14.07	13.94	13.94			
100	QPSK	270	0	14.07	13.96	13.77	15.5	0.0	
100	16QAM	1	1	13.88	13.92	13.82	15.5	0.0	
100	16QAM	1	1	14.07	14.01	13.88	15.5	0.0	
100	256QAM	1	1	14.01	14.01	14.04	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.97	13.90	13.76	Time-up limit (dB)	MFR (dB)	
80	QPSK	1	1	13.97	13.90	13.76	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.97	14.01	13.83	Time-up limit (dB)	MFR (dB)	
80	QPSK	1	1	13.97	14.01	13.83	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.88	13.90	14.01	Time-up limit (dB)	MFR (dB)	
70	QPSK	1	1	13.88	13.90	14.01	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.98	13.81	13.90	Time-up limit (dB)	MFR (dB)	
60	QPSK	1	1	13.98	13.81	13.90	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.03	13.95	13.97	Time-up limit (dB)	MFR (dB)	
50	QPSK	1	1	14.03	13.95	13.97	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.05	13.92	14.01	Time-up limit (dB)	MFR (dB)	
40	QPSK	1	1	14.05	13.92	14.01	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.83	13.90	14.01	Time-up limit (dB)	MFR (dB)	
30	QPSK	1	1	13.83	13.90	14.01	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.92	13.88	13.83	Time-up limit (dB)	MFR (dB)	
20	QPSK	1	1	13.92	13.88	13.83	15.5	0.0	



n7 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	14.70	14.80	14.89			
40	PV2 BPSK	1	108	14.71	14.87	14.78	15.5	0.0	
40	PV2 BPSK	1	214	14.74	14.91	14.77			
40	PV2 BPSK	108	0	14.73	14.70	14.72	15.5	0.0	
40	PV2 BPSK	108	54	14.67	14.70	14.80	15.5	0.0	
40	PV2 BPSK	108	108	14.70	14.80	14.80			
40	PV2 BPSK	216	0	14.69	14.80	14.80	15.5	0.0	
40	QPSK	1	1	14.70	14.80	14.89			
40	QPSK	1	108	14.68	14.81	14.80	15.5	0.0	
40	QPSK	1	214	14.83	14.77	14.81			
40	QPSK	108	0	14.80	14.80	14.70	14.5	1.0	
40	QPSK	108	54	14.69	14.80	14.83	15.5	0.0	
40	QPSK	108	108	14.49	14.70	14.80	14.5	1.0	
40	QPSK	216	0	14.55	14.80	14.81			
40	16QAM	1	1	14.50	14.87	14.87	15.5	0.0	
40	16QAM	1	1	14.72	14.80	14.80	15.5	0.0	
40	256QAM	1	1	14.81	14.81	14.83	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.53	14.87	14.91	15.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	14.72	14.80	14.74	15.5	0.0	
Channel									
Frequency (MHz)									
20	PV2 BPSK	1	1	14.81	14.81	14.77	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.83	14.80	14.75	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.70	14.81	14.84	15.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.67	14.80	14.73	15.5	0.0	

n66 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	14.71	14.80	14.83			
40	PV2 BPSK	1	108	14.89	14.80	14.81	16.0	0.0	
40	PV2 BPSK	1	214	14.73	14.80	14.74			
40	PV2 BPSK	108	0	14.81	14.80	14.80	16.0	0.0	
40	PV2 BPSK	108	54	14.73	14.70	14.80	16.0	0.0	
40	PV2 BPSK	108	108	14.70	14.70	14.80			
40	PV2 BPSK	216	0	14.70	14.70	14.80	16.0	0.0	
40	QPSK	1	1	14.88	14.84	14.82			
40	QPSK	1	108	14.80	14.70	14.80	16.0	0.0	
40	QPSK	1	214	14.70	14.84	14.88			
40	QPSK	108	0	14.80	14.84	14.70	16.0	0.0	
40	QPSK	108	54	14.81	14.80	14.71	16.0	0.0	
40	QPSK	108	108	14.81	14.80	14.70	16.0	0.0	
40	QPSK	216	0	14.80	14.80	14.70			
40	16QAM	1	1	14.80	14.80	14.80	16.0	0.0	
40	16QAM	1	1	14.80	14.70	14.80	16.0	0.0	
40	256QAM	1	1	14.78	14.81	14.80	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.80	14.80	14.80	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.85	14.87	14.87	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.89	14.73	14.70	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.70	14.80	14.84	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.81	14.80	14.80	16.0	0.0	



n38 Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / Freq.	Power High Ch. / Freq. / Freq.	Turn-up limit (dB)	MPR (dB)
Channel							
Frequency (MHz)							
40	P12-BPSK	1	1	14.71	14.82	14.50	
40	P12-BPSK	1	53	14.88	14.87	14.84	15.5
40	P12-BPSK	1	104	14.76	14.72	14.71	
40	P12-BPSK	50	0	14.81	15.00	14.88	15.5
40	P12-BPSK	50	28	14.90	15.00	14.82	15.5
40	P12-BPSK	50	56	14.80	15.10	14.80	15.5
40	P12-BPSK	100	0	14.88	15.17	14.98	15.5
40	QPSK	1	1	14.83	15.10	14.89	
40	QPSK	1	53	14.96	15.21	14.77	15.5
40	QPSK	1	104	15.01	15.01	14.82	
40	QPSK	50	0	14.88	15.00	14.78	15.5
40	QPSK	50	28	14.71	14.97	14.82	15.5
40	QPSK	50	56	14.73	14.90	14.83	15.5
40	QPSK	100	0	14.86	15.00	14.46	15.5
40	16QAM	1	1	14.85	15.00	14.98	15.5
40	16QAM	1	1	14.89	14.80	14.85	15.5
40	256QAM	1	1	14.77	14.85	14.80	15.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.51	14.81	14.84	15.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.68	14.81	14.78	15.5

n41 PC3 Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. / Freq.	Power High Ch. / Freq. / Freq.	Turn-up limit (dB)	MPR (dB)
Channel							
Frequency (MHz)							
100	P12-BPSK	1	1	14.81	15.00	14.90	
100	P12-BPSK	1	137	14.99	15.00	14.77	15.5
100	P12-BPSK	1	271	14.85	15.17	14.73	
100	P12-BPSK	136	0	14.88	15.00	14.80	15.5
100	P12-BPSK	136	66	15.02	14.90	14.84	15.5
100	P12-BPSK	270	0	15.08	14.90	14.81	15.5
100	QPSK	1	1	15.07	15.23	14.88	
100	QPSK	1	137	14.95	15.11	14.90	15.5
100	QPSK	1	271	15.05	15.04	14.82	
100	QPSK	136	0	14.89	15.12	14.75	15.5
100	QPSK	136	66	14.84	15.00	14.72	15.5
100	QPSK	136	136	14.81	15.00	14.90	15.5
100	QPSK	270	0	15.05	15.00	14.87	15.5
100	16QAM	1	1	15.00	15.15	14.86	15.5
100	16QAM	1	1	14.87	14.80	14.78	15.5
100	256QAM	1	1	15.08	15.15	14.80	15.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.55	15.11	14.89	15.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.94	15.00	14.78	15.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.00	15.00	14.90	15.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.90	15.00	14.91	15.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.98	15.07	14.81	15.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.70	15.22	14.84	15.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.00	15.11	14.94	15.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.08	15.24	14.79	15.5



Par270 n77 PC3 Ant 9										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MPR	(dB)	
Channel										
Frequency (MHz)				96000	96000	96000				3000.01
100	P12 BPSK	1	1	11.76	11.76	11.82				11.84
100	P12 BPSK	1	137	11.83	11.84	11.82			13.5	0.0
100	P12 BPSK	1	271	11.84	11.82	11.86				11.81
100	P12 BPSK	136	0	11.80	11.79	11.82			13.5	0.0
100	P12 BPSK	136	66	11.87	11.74	11.84			13.5	0.0
100	P12 BPSK	136	136	11.80	11.77	11.84			13.5	0.0
100	P12 BPSK	270	0	11.81	11.82	11.86				11.81
100	P12 BPSK	270	9	11.81	11.85	11.86			13.5	0.0
100	QPSK	1	1	11.79	11.77	11.85				11.82
100	QPSK	1	137	11.84	11.80	11.81			13.5	0.0
100	QPSK	1	271	11.88	11.70	11.87				11.88
100	QPSK	136	0	11.82	11.85	11.86			13.5	0.0
100	QPSK	136	69	11.71	11.70	11.70			13.5	0.0
100	QPSK	136	136	11.80	11.80	11.73			13.5	0.0
100	QPSK	270	0	11.86	11.72					11.86
100	QPSK	270	9	11.80	11.85	11.87			13.5	0.0
100	84QAM	1	1	11.82	11.70	11.82			13.5	0.0
100	84QAM	1	1	11.82	11.81	11.83			13.5	0.0
Channel										
Frequency (MHz)				83688	83690	83734	Time-up (min)	MPR		
Channel				3743.02	364	3923.01	(dB)	MPR		
80	QPSK	1	1	11.84	11.73	11.76			13.5	0.0
Channel										
Frequency (MHz)				84934	85000	85088	Time-up (min)	MPR		
Channel				3743.02	364	3943.02	(dB)	MPR		
80	QPSK	1	1	11.73	11.87	11.86			13.5	0.0
Channel										
Frequency (MHz)				85000	85000	85000	Time-up (min)	MPR		
Channel				3750.02	364	3943.02	(dB)	MPR		
70	QPSK	1	1	11.72	11.87	11.81			13.5	0.0
Channel										
Frequency (MHz)				85988	86000	86034	Time-up (min)	MPR		
Channel				3750.02	364	3963.01	(dB)	MPR		
60	QPSK	1	1	11.85	11.86	11.87			13.5	0.0
Channel										
Frequency (MHz)				874.01	874.01	874.01	Time-up (min)	MPR		
Channel				3720.01	364	3953.02	(dB)	MPR		
50	QPSK	1	1	11.87	11.71	11.81			13.5	0.0
Channel										
Frequency (MHz)				86000	86000	86000	Time-up (min)	MPR		
Channel				3720.01	364	3960.01	(dB)	MPR		
40	QPSK	1	1	11.81	11.70	11.81			13.5	0.0
Channel										
Frequency (MHz)				84366	85000	84334	Time-up (min)	MPR		
Channel				3712.02	364	3953.01	(dB)	MPR		
30	QPSK	1	1	11.87	11.74	11.70			13.5	0.0
Channel										
Frequency (MHz)				84334	85000	84688	Time-up (min)	MPR		
Channel				3710.01	364	3933.02	(dB)	MPR		
20	QPSK	1	1	11.81	11.87	11.85			13.5	0.0

Part27Q n77 PC3 Ant 9										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)	MPR	(dB)	
Channel										
Frequency (MHz)				83000	83334	83688				
Channel				2619	3000.01	3000.02	(dB)	MPR		
100	P12 BPSK	1	1	11.72	11.86	11.91			13.5	0.0
100	P12 BPSK	1	137	11.88					13.5	0.0
100	P12 BPSK	1	271	11.81					13.5	0.0
100	P12 BPSK	136	0	11.80					13.5	0.0
100	P12 BPSK	136	66	11.80					13.5	0.0
100	P12 BPSK	136	136	11.80					13.5	0.0
100	P12 BPSK	270	0	11.85					13.5	0.0
100	P12 BPSK	270	9	11.85					13.5	0.0
100	QPSK	1	1	11.73					13.5	0.0
100	QPSK	1	137	11.82					13.5	0.0
100	QPSK	1	271	11.88					13.5	0.0
100	QPSK	136	0	11.87					13.5	0.0
100	QPSK	136	69	11.70					13.5	0.0
100	QPSK	136	136	11.80					13.5	0.0
100	QPSK	270	0	11.80					13.5	0.0
100	QPSK	270	9	11.85					13.5	0.0
100	84QAM	1	1	11.86					13.5	0.0
100	84QAM	1	1	11.83					13.5	0.0
Channel										
Frequency (MHz)				83000	83334	83688	Time-up (min)	MPR		
Channel				2619	3000.01	3000.02	(dB)	MPR		
90	QPSK	1	1	11.72	11.86	11.91			13.5	0.0
Channel										
Frequency (MHz)				83688	83334	83000	Time-up (min)	MPR		
Channel				3403.02	3000.01	3000.01	(dB)	MPR		
80	QPSK	1	1	11.83	11.87	11.84			13.5	0.0
Channel										
Frequency (MHz)				83334	83334	83434	Time-up (min)	MPR		
Channel				3403.02	3000.01	3000.01	(dB)	MPR		
70	QPSK	1	1	11.87	11.72	11.88			13.5	0.0
Channel										
Frequency (MHz)				83000	83334	83688	Time-up (min)	MPR		
Channel				3403.02	3000.01	3000.02	(dB)	MPR		
60	QPSK	1	1	11.83	11.70	11.83			13.5	0.0
Channel										
Frequency (MHz)				83434	83334	83000	Time-up (min)	MPR		
Channel				3470.02	3000.01	3020.01	(dB)	MPR		
50	QPSK	1	1	11.82	11.82	11.86			13.5	0.0
Channel										
Frequency (MHz)				83334	83334	84334	Time-up (min)	MPR		
Channel				3470.01	3000.01	3000.01	(dB)	MPR		
40	QPSK	1	1	11.83	11.82	11.80			13.5	0.0
Channel										
Frequency (MHz)				83000	83334	83688	Time-up (min)	MPR		
Channel				3460	3000.01	3000.02	(dB)	MPR		
30	QPSK	1	1	11.81	11.81	11.82			13.5	0.0
Channel										
Frequency (MHz)				83688	83334	83000	Time-up (min)	MPR		
Channel				3460.02	3000.01	3020.01	(dB)	MPR		
20	QPSK	1	1	11.72	11.83	11.80			13.5	0.0



Part270 n78 PC2 Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	1	137	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	1	273	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	195	9	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	195	69	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	195	195	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	270	9	12.0	3500	3500	14.0	0.0
100	QPSK	1	1	12.0	3500	3500	14.0	0.0
100	QPSK	1	137	12.0	3500	3500	14.0	0.0
100	QPSK	1	273	12.0	3500	3500	14.0	0.0
100	QPSK	195	9	12.0	3500	3500	14.0	0.0
100	QPSK	195	69	12.0	3500	3500	14.0	0.0
100	QPSK	195	195	12.0	3500	3500	14.0	0.0
100	QPSK	270	9	12.0	3500	3500	14.0	0.0
100	16QAM	1	1	12.0	3500	3500	14.0	0.0
100	16QAM	1	137	12.0	3500	3500	14.0	0.0
100	16QAM	1	273	12.0	3500	3500	14.0	0.0
100	16QAM	195	9	12.0	3500	3500	14.0	0.0
100	16QAM	195	69	12.0	3500	3500	14.0	0.0
100	16QAM	195	195	12.0	3500	3500	14.0	0.0
100	16QAM	270	9	12.0	3500	3500	14.0	0.0
100	256QAM	1	1	12.0	3500	3500	14.0	0.0
100	256QAM	1	137	12.0	3500	3500	14.0	0.0
100	256QAM	1	273	12.0	3500	3500	14.0	0.0
100	256QAM	195	9	12.0	3500	3500	14.0	0.0
100	256QAM	195	69	12.0	3500	3500	14.0	0.0
100	256QAM	195	195	12.0	3500	3500	14.0	0.0
100	256QAM	270	9	12.0	3500	3500	14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.54	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.48	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.43	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.43	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.57	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.57	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.61	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.48	3500	3500	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.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	1	137	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	1	273	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	195	9	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	195	69	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	195	195	12.0	3500	3500	14.0	0.0
100	PB2 BPSK	270	9	12.0	3500	3500	14.0	0.0
100	QPSK	1	1	12.0	3500	3500	14.0	0.0
100	QPSK	1	137	12.0	3500	3500	14.0	0.0
100	QPSK	1	273	12.0	3500	3500	14.0	0.0
100	QPSK	195	9	12.0	3500	3500	14.0	0.0
100	QPSK	195	69	12.0	3500	3500	14.0	0.0
100	QPSK	195	195	12.0	3500	3500	14.0	0.0
100	QPSK	270	9	12.0	3500	3500	14.0	0.0
100	16QAM	1	1	12.0	3500	3500	14.0	0.0
100	16QAM	1	137	12.0	3500	3500	14.0	0.0
100	16QAM	1	273	12.0	3500	3500	14.0	0.0
100	16QAM	195	9	12.0	3500	3500	14.0	0.0
100	16QAM	195	69	12.0	3500	3500	14.0	0.0
100	16QAM	195	195	12.0	3500	3500	14.0	0.0
100	16QAM	270	9	12.0	3500	3500	14.0	0.0
100	256QAM	1	1	12.0	3500	3500	14.0	0.0
100	256QAM	1	137	12.0	3500	3500	14.0	0.0
100	256QAM	1	273	12.0	3500	3500	14.0	0.0
100	256QAM	195	9	12.0	3500	3500	14.0	0.0
100	256QAM	195	69	12.0	3500	3500	14.0	0.0
100	256QAM	195	195	12.0	3500	3500	14.0	0.0
100	256QAM	270	9	12.0	3500	3500	14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.55	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.50	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.42	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.48	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.41	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.54	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.60	3500	3500	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.51	3500	3500	17.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB-SSB	1	1	13.20	13.24	13.27		
100	PB-SSB	1	1	13.20	13.24	13.27	14.5	0.0
100	PB-SSB	1	271	13.29	13.27	13.25		
100	PB-SSB	1	271	13.29	13.27	13.25	14.5	0.0
100	PB-SSB	136	69	13.23	13.20	13.27	14.5	0.0
100	PB-SSB	136	69	13.23	13.20	13.27	14.5	0.0
100	PB-SSB	276	0	13.19	13.25	13.10		
100	PB-SSB	276	0	13.19	13.25	13.10	14.5	0.0
100	QPSK	1	1	13.23	13.30	13.18		
100	QPSK	1	1	13.23	13.30	13.18	14.5	0.0
100	QPSK	1	137	13.20	13.20	13.14		
100	QPSK	1	137	13.20	13.20	13.14	14.5	0.0
100	QPSK	1	271	13.13	13.30	13.18		
100	QPSK	1	271	13.13	13.30	13.18	14.5	0.0
100	QPSK	136	0	13.22	13.11	13.24	14.5	0.0
100	QPSK	136	0	13.22	13.11	13.24	14.5	0.0
100	QPSK	136	69	13.28	13.31	12.95	14.5	0.0
100	QPSK	136	138	13.02	13.22	12.94	14.5	0.0
100	QPSK	270	0	13.15	13.20	13.00		
100	QPSK	270	0	13.15	13.20	13.00	14.5	0.0
100	8QAM	1	1	13.30	13.26	13.10	14.5	0.0
100	8QAM	1	1	13.13	13.25	13.00	14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.08	13.31	13.27	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.02	13.34	13.15	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.18	13.34	13.26	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.10	13.30	13.11	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.10	13.20	13.10	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.00	13.40	13.00	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.11	13.21	13.10	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.10	13.24	13.06	14.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB-SSB	1	1	13.22	13.24	13.22		
100	PB-SSB	1	137	13.24	13.24	13.24	14.5	0.0
100	PB-SSB	1	271	13.30	13.29	13.28		
100	PB-SSB	1	271	13.30	13.29	13.28	14.5	0.0
100	PB-SSB	136	69	13.22	13.22	13.22	14.5	0.0
100	PB-SSB	136	69	13.22	13.22	13.22	14.5	0.0
100	PB-SSB	276	0	13.17	13.25	13.10		
100	PB-SSB	276	0	13.17	13.25	13.10	14.5	0.0
100	QPSK	1	1	13.27	13.27	13.27		
100	QPSK	1	1	13.27	13.27	13.27	14.5	0.0
100	QPSK	136	0	13.20	13.20	13.20	14.5	0.0
100	QPSK	136	69	13.22	13.22	13.22	14.5	0.0
100	QPSK	136	138	13.02	13.22	13.02	14.5	0.0
100	QPSK	270	0	13.16	13.16	13.16		
100	QPSK	270	0	13.16	13.16	13.16	14.5	0.0
100	8QAM	1	1	13.11	13.11	13.11	14.5	0.0
100	8QAM	1	1	13.25	13.25	13.25	14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.09	13.33	13.32	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.04	13.17	13.21	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.20	13.10	13.27	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.18	13.22	13.30	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.14	13.27	13.26	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.10	13.33	13.33	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.25	13.22	13.10	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.22	13.30	13.34	14.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB-SSB	1	1	13.21	13.21	13.21		
100	PB-SSB	1	137	13.21	13.21	13.21	14.0	0.0
100	PB-SSB	1	271	13.27	13.27	13.27		
100	PB-SSB	1	271	13.27	13.27	13.27	14.0	0.0
100	PB-SSB	136	69	13.21	13.21	13.21	14.0	0.0
100	PB-SSB	136	69	13.21	13.21	13.21	14.0	0.0
100	PB-SSB	276	0	13.16	13.26	13.16		
100	PB-SSB	276	0	13.16	13.26	13.16	14.0	0.0
100	QPSK	1	1	13.22	13.22	13.22		
100	QPSK	1	1	13.22	13.22	13.22	14.0	0.0
100	QPSK	1	271	13.42	13.42	13.42		
100	QPSK	1	271	13.42	13.42	13.42	14.0	0.0
100	QPSK	136	0	13.44	13.44	13.44	14.0	0.0
100	QPSK	136	69	13.25	13.25	13.25	14.0	0.0
100	QPSK	136	138	13.01	13.01	13.01	14.0	0.0
100	QPSK	270	0	13.16	13.16	13.16		
100	QPSK	270	0	13.16	13.16	13.16	14.0	0.0
100	8QAM	1	1	13.11	13.41	13.41	14.0	0.0
100	8QAM	1	1	13.21	13.21	13.21	14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.14	13.35	13.30	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.04	13.43	13.35	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.38	13.07	13.46	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.48	13.33	13.41	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.08	13.43	13.37	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.14	13.36	13.44	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.29	13.47	13.47	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.48	13.47	13.50	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								
Frequency (MHz)				83334				
100	PB4-BPSK	1	1	13.17				
100	PB4-BPSK	1	137	13.18			14.0	0.0
100	PB4-BPSK	1	271	13.20			14.0	0.0
100	PB4-BPSK	1	365	13.22			14.0	0.0
100	PB4-BPSK	1	459	13.22			14.0	0.0
100	PB4-BPSK	1	553	13.24			14.0	0.0
100	PB4-BPSK	1	647	13.26			14.0	0.0
100	QPSK	1	1	13.33			14.0	0.0
100	QPSK	1	137	13.33			14.0	0.0
100	QPSK	1	271	13.35			14.0	0.0
100	QPSK	1	365	13.36			14.0	0.0
100	QPSK	1	459	13.38			14.0	0.0
100	QPSK	1	553	13.39			14.0	0.0
100	QPSK	1	647	13.41			14.0	0.0
100	16QAM	1	1	13.55			14.0	0.0
100	16QAM	1	137	13.56			14.0	0.0
100	16QAM	1	271	13.58			14.0	0.0
100	16QAM	1	365	13.59			14.0	0.0
100	16QAM	1	459	13.61			14.0	0.0
100	16QAM	1	553	13.62			14.0	0.0
100	16QAM	1	647	13.64			14.0	0.0
Channel				83300	83334	83368	Tune-up limit (dBm)	MPR
Frequency (MHz)				83268	83302	83336		
50	QPSK	1	1	13.43	13.43	13.30	17.0	0.0
Channel				83688	83334	83400	Tune-up limit (dBm)	MPR
Frequency (MHz)				83652	83300	83268		
80	QPSK	1	1	13.43	13.31	13.42	17.0	0.0
Channel				83834	83334	83434	Tune-up limit (dBm)	MPR
Frequency (MHz)				83800	83300	83150		
70	QPSK	1	1	13.31	13.37	13.43	17.0	0.0
Channel				83000	83034	83068	Tune-up limit (dBm)	MPR
Frequency (MHz)				83000	83034	83068		
60	QPSK	1	1	13.37	13.43	13.45	17.0	0.0
Channel				83100	83134	83168	Tune-up limit (dBm)	MPR
Frequency (MHz)				83100	83134	83168		
50	QPSK	1	1	13.46	13.52	13.46	17.0	0.0
Channel				83134	83168	83202	Tune-up limit (dBm)	MPR
Frequency (MHz)				83134	83168	83202		
40	QPSK	1	1	13.46	13.47	13.51	17.0	0.0
Channel				83100	83134	83168	Tune-up limit (dBm)	MPR
Frequency (MHz)				83100	83134	83168		
30	QPSK	1	1	13.43	13.51	13.43	17.0	0.0
Channel				83068	83134	83200	Tune-up limit (dBm)	MPR
Frequency (MHz)				83068	83134	83200		
20	QPSK	1	1	13.50	13.52	13.41	17.0	0.0



Par270 n77 PC3 Ant 11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	18.13	18.23	18.32			
100	P12 BPSK	1	137	18.08	18.50	18.04	17.5	0.0	
100	P12 BPSK	1	271	18.03	18.23	18.03			
100	P12 BPSK	136	0	18.04	18.23	18.04	17.5	0.0	
100	P12 BPSK	136	66	18.07	18.07	18.04	17.5	0.0	
100	P12 BPSK	136	138	18.04	18.13	18.05			
100	P12 BPSK	270	0	18.01	18.13	18.01	17.5	0.0	
100	QPSK	1	1	18.00	18.23	18.23			
100	QPSK	1	137	18.05	18.23	18.04	17.5	0.0	
100	QPSK	1	271	18.19	18.50	18.12			
100	QPSK	136	0	18.06	18.13	18.13	17.5	0.0	
100	QPSK	136	66	18.02	18.23	18.08	17.5	0.0	
100	QPSK	136	138	18.04	18.04	18.05			
100	QPSK	270	0	18.05	18.23	18.23	17.5	0.0	
100	16QAM	1	1	18.07	18.23	18.19	17.5	0.0	
100	16QAM	1	1	18.03	18.13	18.07	17.5	0.0	
100	256QAM	1	1	18.00	18.19	18.06	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.21	18.30	18.17	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.19	18.14	18.09	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.05	18.13	18.19	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.00	18.14	18.10	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.12	18.14	18.15	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.19	18.23	18.12	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.13	18.23	18.27	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.19	18.23	18.20	17.5	0.0	

Part27Q n77 PC3 Ant 11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1			18.00				
100	P12 BPSK	1	137			18.07	17.5	0.0		
100	P12 BPSK	1	271			18.00				
100	P12 BPSK	136	0			18.13	17.5	0.0		
100	P12 BPSK	136	66			18.02	17.5	0.0		
100	P12 BPSK	136	138			18.04				
100	P12 BPSK	270	0			18.13	17.5	0.0		
100	QPSK	1	1			18.23				
100	QPSK	1	137			18.23	17.5	0.0		
100	QPSK	1	271			18.04				
100	QPSK	136	0			18.07	17.5	0.0		
100	QPSK	136	66			18.10	17.5	0.0		
100	QPSK	136	138			18.04				
100	QPSK	270	0			18.23	17.5	0.0		
100	16QAM	1	1			18.13	17.5	0.0		
100	16QAM	1	1			18.00	17.5	0.0		
100	256QAM	1	1			18.07	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1			18.09	18.18	18.18	17.5	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	1			18.07	18.07	18.12	17.5	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	1			18.14	18.13	18.07	17.5	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	1			18.01	18.05	18.03	17.5	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	1			18.12	18.12	18.05	17.5	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	1			18.23	18.23	18.15	17.5	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1			18.14	18.13	18.09	17.5	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1			18.09	18.08	18.00	17.5	0.0



n5 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F (MHz)	Power High Ch. F (MHz)	Power Mid Ch. F (MHz)	Tune-up limit [dBm] MPR [dB]
Channel							
	Frequency (MHz)			16860	16730	16900	
20	Pi4-BPSK	1	1	2448	2452	2453	25.5 0.0
20	Pi4-BPSK	1	53	2437	2441	2424	
20	Pi4-BPSK	1	104	2426	2430	2433	
20	Pi4-BPSK	50	5	2417	2420	2409	25.0 0.5
20	Pi4-BPSK	50	28	2413	2399	2396	25.5 0.0
20	Pi4-BPSK	50	56	2421	2434	2429	25.0 0.5
20	Pi4-BPSK	100	0	2385	2383	2383	
20	QPSK	1	1	2446	2446	2453	
20	QPSK	1	53	2437	2435	2446	25.5 0.0
20	QPSK	1	104	2446	2443	2436	
20	QPSK	50	0	2324	2323	2322	24.5 1.0
20	QPSK	50	26	2327	2327	2328	25.0 0.8
20	QPSK	50	56	2327	2345	2358	24.5 1.0
20	QPSK	100	0	2255	2266	2256	
20	16QAM	1	1	2359	2343	2350	24.5 1.0
20	16QAM	1	1	2221	2213	2215	25.0 1.5
20	256QAM	1	1	2012	2004	2016	21.0 4.5
Channel							
	Frequency (MHz)			16530	16730	16930	
15	QPSK	1	1	2440	2460	2447	25.5 0.0
Channel							
	Frequency (MHz)			16560	16760	16960	
10	QPSK	1	1	2446	2455	2454	25.5 0.0
Channel							
	Frequency (MHz)			16530	16730	16930	
5	QPSK	1	1	2442	2467	2440	25.5 0.0

DS13							
n7 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F (MHz)	Power High Ch. F (MHz)	Power Mid Ch. F (MHz)	Tune-up limit [dBm] MPR [dB]
Channel							
	Frequency (MHz)			50600	50700	50600	
50	Pi4-BPSK	1	1	2212	2214	2210	
50	Pi4-BPSK	1	135	2207	2213	2202	24.0 0.0
50	Pi4-BPSK	1	268	2201	2211	2217	
50	Pi4-BPSK	136	0	2187	2173	2184	23.0 0.5
50	Pi4-BPSK	136	68	2208	2223	2208	24.0 0.0
50	Pi4-BPSK	136	135	2184	2176	2186	23.5 0.5
50	Pi4-BPSK	270	0	2168	2178	2184	
50	QPSK	1	1	2216	2226	2220	
50	QPSK	1	135	2205	2215	2202	24.0 0.0
50	QPSK	1	268	2203	2212	2206	
50	QPSK	136	0	2107	2113	2111	23.0 1.0
50	QPSK	136	68	2207	2217	2201	24.0 0.0
50	QPSK	136	135	2081	2091	2080	23.0 1.0
50	QPSK	270	0	2030	2100	2086	
50	16QAM	1	1	2114	2120	2116	26.0 1.0
50	16QAM	1	1	1876	1820	1832	21.0 1.5
50	256QAM	1	1	1788	1776	1782	18.5 4.5
Channel							
	Frequency (MHz)			50400	50700	51000	
40	QPSK	1	1	2184	2211	2186	24.0 0.0
Channel							
	Frequency (MHz)			50500	50700	51000	
30	QPSK	1	1	2188	2208	2197	24.0 0.0
Channel							
	Frequency (MHz)			50500	50700	51000	
25	QPSK	1	1	2183	2213	2184	24.0 0.0
Channel							
	Frequency (MHz)			50500	50700	51000	
30	QPSK	1	1	2189	2203	2191	24.0 0.0
Channel							
	Frequency (MHz)			50100	50700	51300	
15	QPSK	1	1	2117	2230	2136	24.0 0.0
Channel							
	Frequency (MHz)			50100	50700	51300	
10	QPSK	1	1	2216	2224	2224	24.0 0.0
Channel							
	Frequency (MHz)			50500	50700	51300	
5	QPSK	1	1	2207	2200	2208	24.0 0.0

n66 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F (MHz)	Power High Ch. F (MHz)	Power Mid Ch. F (MHz)	Tune-up limit [dBm] MPR [dB]
Channel							
	Frequency (MHz)			34600	34600	34600	
40	Pi4-BPSK	1	1	2226	2226	2226	
40	Pi4-BPSK	1	108	2271	2266	2259	24.5 0.0
40	Pi4-BPSK	1	214	2254	2273	2272	
40	Pi4-BPSK	108	0	2211	2216	2219	24.0 0.5
40	Pi4-BPSK	108	54	2287	2282	2283	24.5 0.0
40	Pi4-BPSK	108	108	2237	2230	2241	24.0 0.5
40	Pi4-BPSK	216	0	2213	2213	2224	
40	QPSK	1	1	2266	2274	2272	
40	QPSK	1	108	2259	2252	2276	24.5 0.0
40	QPSK	1	214	2262	2263	2284	
40	QPSK	108	0	2170	2164	2177	23.5 1.0
40	QPSK	108	54	2285	2285	2283	24.5 0.0
40	QPSK	108	108	2193	2184	2186	23.5 1.0
40	QPSK	216	0	2251	2255	2283	
40	16QAM	1	1	2156	2158	2183	26.0 1.0
40	16QAM	1	1	2011	2006	2016	21.0 1.5
40	256QAM	1	1	1807	1800	1810	18.0 4.5
Channel							
	Frequency (MHz)			34500	34600	35000	
30	QPSK	1	1	2266	2259	2259	24.5 0.0
Channel							
	Frequency (MHz)			34600	34600	34600	
20	QPSK	1	1	2258	2270	2280	24.5 0.0
Channel							
	Frequency (MHz)			34500	34600	34600	
15	QPSK	1	1	2257	2248	2275	24.5 0.0
Channel							
	Frequency (MHz)			34500	34600	34600	
10	QPSK	1	1	2254	2270	2275	24.5 0.0
Channel							
	Frequency (MHz)			34600	34600	34600	
5	QPSK	1	1	2207	2270	2271	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.	Time-up (ms)	MPE (dB)
Channel								
Frequency (MHz)								
51600.00 51600.00 51600.00								
40	PID-BPSK	1	1	2132	2133	2143		
40	PID-BPSK	1	93	2118	2150	2137	23.0	0.0
40	PID-BPSK	1	104	2137	2150	2129		
40	PID-BPSK	90	0	2137	2150	2140	23.0	0.0
40	PID-BPSK	90	26	2139	2137	2144	23.0	0.0
40	PID-BPSK	90	56	2155	2144	2131		
40	PID-BPSK	100	0	2130	2135	2134	23.0	0.0
40	QPSK	1	1	2139	2133	2144		
40	QPSK	1	93	2137	2140	2130	23.0	0.0
40	QPSK	1	104	2125	2130	2138		
40	QPSK	90	0	2031	2110	2034	22.5	0.5
40	QPSK	90	99	2127	2140	2123	23.0	0.0
40	QPSK	90	56	2030	2160	2034	22.5	0.5
40	QPSK	100	0	2035	2035	2035	22.5	0.5
40	QPSK	100	1	2039	2110	2103	22.5	0.5
40	AQAM	1	1	1945	1940	1935	21.0	2.5
40	AQAM	1	1	1731	1761	1747	19.0	4.0
Channel								
Frequency (MHz)								
51700.00 51900.00 52000.00								
30	QPSK	1	1	2118	2154	2126	23.0	0.0
Channel								
Frequency (MHz)								
51800.00 51900.00 52000.00								
30	QPSK	1	1	2120	2152	2144	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (ms)	MPE (dB)
Channel								
Frequency (MHz)								
2040.01 2050.30 2050.00								
100	PID-BPSK	1	1	2102	2104	2117		
100	PID-BPSK	1	137	2109	2163	2179	23.5	0.0
100	PID-BPSK	1	271	2106	2171	2185		
100	PID-BPSK	186	0	2131	2123	2132	23.0	0.5
100	PID-BPSK	186	60	2151	2150	2186	23.5	0.0
100	PID-BPSK	186	138	2161	2148	2180		
100	PID-BPSK	276	0	2124	2115	2131	23.0	0.5
100	QPSK	1	1	2209	2213	2183		
100	QPSK	1	137	2162	2143	2181	23.5	0.0
100	QPSK	1	271	2135	2143	2188		
100	QPSK	186	0	2079	2086	2089	22.5	1.0
100	QPSK	186	60	2205	2207	2191	23.5	0.0
100	QPSK	186	138	2051	2061	2036	22.5	1.0
100	QPSK	270	0	2155	2146	2140		
100	QPSK	270	1	2033	2034	2037	22.5	1.0
100	AQAM	1	1	1943	1941	1949	21.0	2.5
100	AQAM	1	1	1738	1733	1740	19.0	4.0
Channel								
Frequency (MHz)								
50200.00 51898.00 52000.00								
90	QPSK	1	1	2204	2205	2179	23.5	0.0
Channel								
Frequency (MHz)								
50200.00 51898.00 52000.00								
80	QPSK	1	1	2196	2203	2185	23.5	0.0
Channel								
Frequency (MHz)								
50300.00 51896.00 53100.00								
70	QPSK	1	1	2203	2208	2182	23.5	0.0
Channel								
Frequency (MHz)								
50500.00 51896.00 53100.00								
60	QPSK	1	1	2198	2203	2183	23.5	0.0
Channel								
Frequency (MHz)								
5201.00 2052.30 2052.00								
50	QPSK	1	1	2194	2202	2183	23.5	0.0
Channel								
Frequency (MHz)								
50500.00 51900.00 53100.00								
40	QPSK	1	1	2189	2202	2180	23.5	0.0
Channel								
Frequency (MHz)								
50200.00 51898.00 53098.00								
30	QPSK	1	1	2201	2202	2179	23.5	0.0
Channel								
Frequency (MHz)								
50200.00 51898.00 53098.00								
20	QPSK	1	1	2205	2205	2180	23.5	0.0

Par270 n77 PC3 Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (ms)	MPE (dB)
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
100	PID-BPSK	1	1	2154	2160	2157		
100	PID-BPSK	1	137	2150	2160	2153	23.5	0.0
100	PID-BPSK	1	271	2158	2152	2186		
100	PID-BPSK	186	0	2142	2158	2151	23.0	0.5
100	PID-BPSK	186	60	2176	2167	2174	23.5	0.0
100	PID-BPSK	186	138	2166	2170	2160		
100	PID-BPSK	276	0	2130	2135	2138	23.0	0.5
100	QPSK	1	1	2162	2168	2186		
100	QPSK	1	137	2166	2178	2173	23.5	0.0
100	QPSK	1	271	2162	2187	2188		
100	QPSK	186	0	2187	2186	2170	22.5	1.0
100	QPSK	186	60	2181	2180	2179	22.5	1.0
100	QPSK	186	138	2084	2089	2070	22.5	1.0
100	QPSK	270	0	2066	2066	2067		
100	QPSK	270	1	2033	2034	2037	22.5	1.0
100	AQAM	1	1	1948	1935	1945	21.0	2.5
100	AQAM	1	1	1737	1760	1730	19.0	4.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
90	QPSK	1	1	2184	2188	2182	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
80	QPSK	1	1	2181	2179	2183	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
70	QPSK	1	1	2181	2174	2182	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
60	QPSK	1	1	2182	2178	2186	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
50	QPSK	1	1	2188	2181	2180	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
40	QPSK	1	1	2189	2180	2180	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
30	QPSK	1	1	2172	2184	2180	23.5	0.0
Channel								
Frequency (MHz)								
84600.00 84600.00 84600.00								
20	QPSK	1	1	2144	2176	2182	23.5	0.0



Part27Q n77 PC3 Ant0								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mide Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIQ-BPSK	1	1	2128				
100	PIQ-BPSK	1	137	2170			23.5	0.0
100	PIQ-BPSK	1	271	2169				
100	PIQ-BPSK	135	9	2158				
100	PIQ-BPSK	135	69	2131			23.5	0.0
100	PIQ-BPSK	135	159	2134				
100	PIQ-BPSK	270	9	2152			23.0	0.5
100	QPSK	1	1	2204				
100	QPSK	1	137	2220			23.5	0.0
100	QPSK	1	271	2181				
100	QPSK	135	9	2178				
100	QPSK	135	66	2200			23.5	0.0
100	QPSK	135	138	2059				
100	QPSK	270	9	2134			22.1	1.0
100	ISDQAM	1	1	2104			25.5	1.0
100	ISDQAM	1	1	1959			24.9	2.2
100	ISDQAM	1	1	1788			19.0	4.5
Channel								
Frequency (MHz)								
60	QPSK	1	1	8333	8334	8338	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	2175	2181	2187	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2170	2172	2187	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2183	2189	2189	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	8300	8304	8308	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	8300	8304	8308	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	8300	8304	8308	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	8300	8304	8308	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	2170	2169	2168	23.5	0.0

Part270 n78 PC3 Ant0								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mide Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIQ-BPSK	1	1	2188				
100	PIQ-BPSK	1	137	2158			23.5	0.0
100	PIQ-BPSK	1	271	2164				
100	PIQ-BPSK	135	9	2191			23.5	0.0
100	PIQ-BPSK	135	69	2179			23.5	0.0
100	PIQ-BPSK	135	159	2182				
100	PIQ-BPSK	270	9	2174			23.0	0.0
100	QPSK	1	1	2204				
100	QPSK	1	137	2220			23.5	0.0
100	QPSK	1	271	2178				
100	QPSK	135	9	2180			23.5	0.0
100	QPSK	135	66	2179			23.5	0.0
100	QPSK	135	138	2153				
100	QPSK	270	9	2135			22.1	1.0
100	ISDQAM	1	1	2105			25.5	1.0
100	ISDQAM	1	1	2109			24.9	1.0
100	ISDQAM	1	1	1911			19.1	3.5
Channel								
Frequency (MHz)								
60	QPSK	1	1	8334	8334	8334	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	2182	2188	2184	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2185	2185	2185	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2185	2185	2185	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	8300	8300	8300	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	2182	2188	2188	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	8300	8300	8300	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	8300	8300	8300	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	2169	2164	2164	23.5	0.0

Part270 n78 PC2 Ant0								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mide Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIQ-BPSK	1	1	2238				
100	PIQ-BPSK	1	137	2242			25.0	0.0
100	PIQ-BPSK	1	271	2262				
100	PIQ-BPSK	135	9	2237			24.5	0.5
100	PIQ-BPSK	135	69	2234			25.0	0.0
100	PIQ-BPSK	135	159	2244				
100	PIQ-BPSK	270	9	2259			24.5	0.0
100	QPSK	1	1	2246			25.0	0.0
100	QPSK	1	137	2234				
100	QPSK	1	271	2245			24.5	1.0
100	QPSK	135	9	2233			25.0	0.0
100	QPSK	135	66	2255				
100	QPSK	135	138	2189			24.5	1.0
100	QPSK	270	9	2233			24.5	1.0
100	ISDQAM	1	1	2150			25.0	1.0
100	ISDQAM	1	1	2077			24.5	2.2
100	ISDQAM	1	1	1888			18.88	4.5
Channel								
Frequency (MHz)								
60	QPSK	1	1	8334	8334	8334	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	2232	2230	2234	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2236	2234	2238	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2239	2238	2232	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	8333	8333	8333	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	2231	2233	2236	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	8300	8300	8300	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	8334	8334	8334	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	2232	2229	2230	25.0	0.0



Part27Q 78 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3560.01							
100	PB2 BPSK	1	1	21.81			
100	PB2 BPSK	1	137	21.87			23.5
100	PB2 BPSK	1	273	21.93			
100	PB2 BPSK	195	5	21.88			24.5
100	PB2 BPSK	195	69	21.94			25.0
100	PB2 BPSK	195	135	21.91			24.5
100	PB2 BPSK	270	5	21.95			25.0
100	QPSK	1	1	22.00			23.5
100	QPSK	1	137	21.94			23.5
100	QPSK	1	273	21.83			23.5
100	QPSK	195	5	21.88			23.5
100	QPSK	195	69	21.83			23.5
100	QPSK	195	135	21.88			23.5
100	QPSK	270	5	21.94			23.5
100	MSKAM	1	1	21.90			25.0
100	MSKAM	1	1	21.93			24.8
100	MSKAM	1	1	19.07			19.0
Channel							
Frequency (MHz)							
833000							
90	QPSK	1	1	83328	83334	83340	MPR
Channel							
Frequency (MHz)							
833000							
80	QPSK	1	1	21.75	21.77	21.88	23.5
Channel							
Frequency (MHz)							
833000							
70	QPSK	1	1	21.73	21.88	21.79	23.5
Channel							
Frequency (MHz)							
833000							
60	QPSK	1	1	21.70	21.77	21.70	23.5
Channel							
Frequency (MHz)							
833000							
50	QPSK	1	1	21.68	21.68	21.68	23.5
Channel							
Frequency (MHz)							
833000							
40	QPSK	1	1	21.64	21.64	21.63	23.5
Channel							
Frequency (MHz)							
833000							
30	QPSK	1	1	21.71	21.72	21.63	23.5
Channel							
Frequency (MHz)							
833000							
20	QPSK	1	1	21.62	21.65	21.65	23.5

Part27Q 78 PC2 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3560.01							
100	PB2 BPSK	1	1	22.21			
100	PB2 BPSK	1	137	22.27			25.0
100	PB2 BPSK	1	273	22.34			24.5
100	PB2 BPSK	195	5	22.25			25.0
100	PB2 BPSK	195	69	22.30			25.0
100	PB2 BPSK	195	135	22.25			24.5
100	PB2 BPSK	270	5	22.27			24.5
100	QPSK	1	1	22.30			25.0
100	QPSK	1	137	22.23			25.0
100	QPSK	1	273	22.27			24.5
100	QPSK	195	5	22.26			25.0
100	QPSK	195	69	22.30			24.5
100	QPSK	195	135	22.26			24.5
100	QPSK	270	5	22.27			24.5
100	MSKAM	1	1	21.75			25.0
100	MSKAM	1	1	21.78			24.8
100	MSKAM	1	1	19.13			19.1
Channel							
Frequency (MHz)							
833000							
90	QPSK	1	1	83316	83321	83326	MPR
Channel							
Frequency (MHz)							
833000							
80	QPSK	1	1	21.17	21.25	21.20	25.0
Channel							
Frequency (MHz)							
833000							
70	QPSK	1	1	21.20	21.20	21.28	25.0
Channel							
Frequency (MHz)							
833000							
60	QPSK	1	1	21.19	21.28	21.19	25.0
Channel							
Frequency (MHz)							
833000							
50	QPSK	1	1	21.22	21.21	21.21	25.0
Channel							
Frequency (MHz)							
833000							
40	QPSK	1	1	21.27	21.23	21.20	25.0
Channel							
Frequency (MHz)							
833000							
30	QPSK	1	1	21.14	21.28	21.20	25.0
Channel							
Frequency (MHz)							
833000							
20	QPSK	1	1	21.12	21.20	21.17	25.0



n5 Ant1									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				16500	16700	16900			
Frequency (MHz)				164	168	172			
20	PI2 BPSK	1	1	22.43	22.43	22.83			
20	PI2 BPSK	1	93	22.60	22.55	22.43	23.0	0.0	
20	PI2 BPSK	1	104	22.53	22.50	22.47			
20	PI2 BPSK	50	0	22.39	22.52	22.56	23.0	0.0	
20	PI2 BPSK	50	28	22.35	22.61	22.46	23.0	0.0	
20	PI2 BPSK	50	56	22.38	22.4	22.47			
20	PI2 BPSK	100	0	22.38	22.5	22.57	23.0	0.0	
20	QPSK	1	1	22.51	22.68	22.83			
20	QPSK	1	50	22.65	22.43	22.43	23.0	0.0	
20	QPSK	1	104	22.38	22.5	22.28			
20	QPSK	50	0	22.44	22.55	22.55	23.0	0.0	
20	QPSK	50	28	22.45	22.55	22.44	23.0	0.0	
20	QPSK	50	56	22.32	22.61	22.63			
20	QPSK	100	0	22.47	22.55	22.46	23.0	0.0	
20	16QAM	1	1	22.45	22.55	22.59	23.5	0.0	
20	16QAM	1	1	21.77	21.80	21.87	22.5	0.5	
20	16QAM	1	1	18.54	18.53	18.90	20.5	2.5	
Channel				16500	16700	16900	Time-up limit	MPR	
Frequency (MHz)				168.5	168.5	168.5	23.0	0.0	
15	QPSK	1	1	22.42	22.65	22.55	23.0	0.0	
Channel				16500	16700	16900	Time-up limit	MPR	
Frequency (MHz)				168	168.5	169	23.0	0.0	
10	QPSK	1	1	22.30	22.55	22.57	23.0	0.0	
Channel				16500	16700	16900	Time-up limit	MPR	
Frequency (MHz)				168.5	168.5	168.5	23.0	0.0	
5	QPSK	1	1	22.47	22.61	22.48	23.0	0.0	



n7 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2492	2494	2495		MPR (dB)		
50	P12-BPSK	1	1	19.14	19.23	19.33				
50	P12-BPSK	1	136	19.18	19.70	19.37	21.0	0.0		
50	P12-BPSK	1	268	19.23	19.66	19.43				
50	P12-BPSK	136	0	19.34	19.63	19.29	21.0	0.0		
50	P12-BPSK	136	68	19.34	19.61	19.35	21.0	0.0		
50	P12-BPSK	136	135	19.16	19.27	19.28				
50	P12-BPSK	270	0	19.18	19.55	19.41	21.0	0.0		
50	QPSK	1	1	19.35	19.60	19.42				
50	QPSK	1	135	19.32	19.20	19.31	21.0	0.0		
50	QPSK	1	268	19.20	19.74	19.39				
50	QPSK	135	0	19.24	19.66	19.21	21.0	0.0		
50	QPSK	136	68	19.23	19.70	19.23	21.0	0.0		
50	QPSK	136	135	19.15	19.70	19.42	21.0	0.0		
50	QPSK	270	0	19.36	19.29	19.44				
50	16QAM	1	1	19.20	19.50	19.31	21.0	0.0		
50	16QAM	1	1	19.28	19.60	19.27	21.0	0.0		
50	256QAM	1	1	17.78	17.71	17.81	19.5	1.5		
Channel										
Frequency (MHz)				50950	50790	51000	Turn-up limit (dBm)	MPR (dB)		
Channel				2492	2494	2495				
40	QPSK	1	1	19.32	19.30	19.30	21.0	0.0		
Channel										
Frequency (MHz)				51000	50790	51100	Turn-up limit (dBm)	MPR (dB)		
Channel				2492	2494	2495				
30	QPSK	1	1	19.22	19.70	19.38	21.0	0.0		
Channel										
Frequency (MHz)				51000	50790	51100	Turn-up limit (dBm)	MPR (dB)		
Channel				2492	2494	2495				
25	QPSK	1	1	19.27	19.72	19.30	21.0	0.0		
Channel										
Frequency (MHz)				51000	50790	51000	Turn-up limit (dBm)	MPR (dB)		
Channel				2492	2494	2495				
20	P12-BPSK	1	1	19.24	19.70	19.38	21.0	0.0		
Channel										
Frequency (MHz)				51000	50790	51000	Turn-up limit (dBm)	MPR (dB)		
Channel				2492.5	2494	2495.5				
15	QPSK	1	1	19.28	19.42	19.33	21.0	0.0		
Channel										
Frequency (MHz)				51000	50790	51000	Turn-up limit (dBm)	MPR (dB)		
Channel				2494	2494	2495				
10	QPSK	1	1	19.15	19.63	19.43	21.0	0.0		
Channel										
Frequency (MHz)				50950	50790	51000	Turn-up limit (dBm)	MPR (dB)		
Channel				2492.5	2494	2495				
5	QPSK	1	1	19.37	19.60	19.21	21.0	0.0		

n66 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1790	1740	1790				
40	P12-BPSK	1	1	24.46	24.53	24.50				
40	P12-BPSK	1	108	24.52	24.40	24.54	25.5	0.0		
40	P12-BPSK	1	214	24.49	24.54	24.80				
40	P12-BPSK	108	0	24.11	24.50	24.97	25.0	0.5		
40	P12-BPSK	108	54	24.49	24.47	24.48	25.5	0.0		
40	P12-BPSK	108	108	24.16	24.50	24.11				
40	P12-BPSK	216	0	24.07	24.07	24.05	25.0	0.5		
40	QPSK	1	1	24.54	24.61	24.58				
40	QPSK	1	108	24.55	24.55	24.42	25.5	0.0		
40	QPSK	1	214	24.48	24.51	24.58				
40	QPSK	108	0	23.45	23.45	23.46	24.5	1.0		
40	QPSK	108	54	24.08	24.50	24.38	25.5	0.0		
40	QPSK	108	108	23.77	23.62	23.72	24.5	1.0		
40	QPSK	216	0	23.56	23.59	23.41				
40	16QAM	1	1	23.28	23.31	23.27	24.5	1.0		
40	16QAM	1	1	22.08	21.97	22.07	23.0	2.5		
40	256QAM	1	1	18.98	18.84	18.84	21.0	4.5		
Channel										
Frequency (MHz)				34500	34900	35000	Turn-up limit (dBm)	MPR (dB)		
Channel				1790	1740	1790				
30	QPSK	1	1	24.42	24.50	24.53	25.5	0.0		
Channel										
Frequency (MHz)				34500	34900	35000	Turn-up limit (dBm)	MPR (dB)		
Channel				1790	1740	1790				
30	QPSK	1	1	24.42	24.50	24.54	25.5	0.0		
Channel										
Frequency (MHz)				34500	34900	35000	Turn-up limit (dBm)	MPR (dB)		
Channel				1712.2	1740	1722.5				
15	QPSK	1	1	24.41	24.54	24.55	25.5	0.0		
Channel										
Frequency (MHz)				34500	34900	35000	Turn-up limit (dBm)	MPR (dB)		
Channel				1715	1740	1715				
10	QPSK	1	1	24.42	24.50	24.54	25.5	0.0		
Channel										
Frequency (MHz)				1712.5	1740	1722.5	Turn-up limit (dBm)	MPR (dB)		
Channel				24.51	24.50	24.50	25.5	0.0		



n38 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	19.55	19.63	19.72			
40	PV2 BPSK	1	53	19.63	19.55	19.55	21.0	0.0	
40	PV2 BPSK	1	104	19.65	19.55	19.59			
40	PV2 BPSK	50	0	19.55	19.70	19.83	21.0	0.0	
40	PV2 BPSK	50	28	19.55	19.63	19.80	21.0	0.0	
40	PV2 BPSK	50	56	19.61	19.47	19.45	21.0	0.0	
40	PV2 BPSK	100	0	19.58	19.47	19.50			
40	QPSK	1	1	19.67	19.73	19.81			
40	QPSK	1	53	19.63	19.74	19.54	21.0	0.0	
40	QPSK	1	104	19.69	19.63	19.48			
40	QPSK	50	0	19.55	19.64	19.81	21.0	0.0	
40	QPSK	50	28	19.53	19.55	19.50	21.0	0.0	
40	QPSK	50	56	19.47	19.60	19.52	21.0	0.0	
40	QPSK	100	0	19.56	19.56	19.56			
40	16QAM	1	1	19.53	19.53	19.54	21.0	0.0	
40	16QAM	1	1	19.54	19.54	19.57	21.0	0.0	
40	256QAM	1	1	19.54	19.53	19.57	19.5	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.61	19.61	19.60	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.50	19.62	19.48	21.0	0.0	

n41 PC3 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	19.61	19.61	19.73			
100	PV2 BPSK	1	137	19.55	19.62	19.88	21.0	0.0	
100	PV2 BPSK	1	271	19.51	19.78	19.87			
100	PV2 BPSK	136	0	19.67	19.61	19.80	21.0	0.0	
100	PV2 BPSK	136	66	19.70	19.61	19.80	21.0	0.0	
100	PV2 BPSK	270	0	19.52	19.65	19.58	21.0	0.0	
100	QPSK	1	1	19.69	19.62	19.74			
100	QPSK	1	137	19.60	19.74	19.57	21.0	0.0	
100	QPSK	1	271	19.47	19.78	19.73			
100	QPSK	136	0	19.50	19.61	19.53	21.0	0.0	
100	QPSK	136	66	19.60	19.60	19.63	21.0	0.0	
100	QPSK	136	136	19.59	19.59	19.52	21.0	0.0	
100	QPSK	270	0	19.56	19.56	19.71			
100	16QAM	1	1	19.54	19.55	19.55	21.0	0.0	
100	16QAM	1	1	19.58	19.61	19.80	21.0	0.0	
100	256QAM	1	1	19.58	19.57	19.57	19.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.73	19.78	19.80	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.61	19.64	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.58	19.60	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.60	19.60	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.61	19.72	19.53	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.52	19.62	19.66	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.57	19.62	19.60	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.70	19.68	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.55	19.63	19.65	21.0	0.0	



n7 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	20.13	20.41	20.12			
50	P12 BPSK	1	136	20.11	20.37	20.06	21.5	0.0	
50	P12 BPSK	1	268	20.34	20.28	20.26			
50	P12 BPSK	136	0	20.11	20.28	20.23	21.5	0.0	
50	P12 BPSK	136	68	20.16	20.27	20.27	21.5	0.0	
50	P12 BPSK	136	136	20.31	20.27	20.27			
50	P12 BPSK	272	0	20.20	20.45	20.26	21.5	0.0	
50	QPSK	1	1	20.33	20.40	20.27			
50	QPSK	1	136	20.25	20.31	20.11	21.5	0.0	
50	QPSK	1	268	20.30	20.20	20.24			
50	QPSK	136	0	19.43	19.56	19.32	20.5	1.0	
50	QPSK	136	68	20.34	20.30	20.22	21.5	0.0	
50	QPSK	136	136	19.32	19.30	19.16	20.5	1.0	
50	QPSK	272	0	19.36	19.30	19.30			
50	16QAM	1	1	20.33	20.33	20.07	21.5	0.0	
50	16QAM	1	1	19.44	19.34	19.23	20.5	1.0	
50	16QAM	1	1	17.43	17.41	17.33	19.5	3.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.37	20.28	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.32	20.37	20.10	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.24	20.42	20.13	21.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	20.12	20.34	20.28	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.13	20.44	20.12	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.11	20.32	20.24	21.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.24	20.30	20.26	21.5	0.0	

n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	23.60	23.62	23.60			
40	P12 BPSK	1	104	23.71	23.70	23.69	24.0	0.0	
40	P12 BPSK	1	214	23.67	23.77	23.73			
40	P12 BPSK	104	0	23.13	23.11	23.18	23.5	0.5	
40	P12 BPSK	104	54	23.75	23.60	23.73	24.0	0.0	
40	P12 BPSK	104	108	23.66	23.66	23.42			
40	P12 BPSK	216	0	23.15	23.15	23.30	23.5	0.5	
40	QPSK	1	1	23.67	23.65	23.70			
40	QPSK	1	104	23.78	23.61	23.62	24.0	0.0	
40	QPSK	1	214	23.82	23.78	23.78			
40	QPSK	104	0	22.86	22.86	22.54	23.0	1.0	
40	QPSK	104	54	23.58	23.70	23.77	24.0	0.0	
40	QPSK	104	108	22.87	22.80	22.86	23.0	1.0	
40	QPSK	216	0	22.54	22.72	22.60			
40	16QAM	1	1	23.30	23.35	23.42	23.5	1.0	
40	16QAM	1	1	21.08	21.61	21.61	21.5	2.5	
40	16QAM	1	1	18.04	18.61	18.70	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.60	23.73	23.66	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.61	23.78	23.66	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.60	23.73	23.58	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.58	23.71	23.61	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.67	23.74	23.59	24.0	0.0	



n38 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)				5190.02	5190	5190.98			
40	PV2 BPSK	1	1	18.12	18.22	18.72			
40	PV2 BPSK	1	53	18.81	18.24	18.30	20.5	0.0	
40	PV2 BPSK	1	104	18.88	18.05	18.91			
40	PV2 BPSK	50	0	18.82	18.21	18.76	20.5	0.0	
40	PV2 BPSK	50	28	18.96	18.22	18.81	20.5	0.0	
40	PV2 BPSK	50	56	18.77	18.07	18.81			
40	PV2 BPSK	100	0	18.78	18.13	18.77	20.5	0.0	
40	QPSK	1	1	18.99	18.20	18.94			
40	QPSK	1	53	18.76	18.24	18.80	20.5	0.0	
40	QPSK	1	104	18.84	18.12	18.77			
40	QPSK	50	0	18.79	18.21	18.88	20.5	0.0	
40	QPSK	50	28	18.97	18.25	18.88	20.5	0.0	
40	QPSK	50	56	18.88	18.09	18.92	20.5	0.0	
40	QPSK	100	0	18.84	18.05	18.81			
40	16QAM	1	1	18.79	18.25	18.86	20.5	0.0	
40	16QAM	1	1	18.80	18.04	18.85	20.5	0.0	
40	256QAM	1	1	17.44	17.83	17.49	19.0	1.5	
Channel				51950	51900	52050	Turn-up limit (dB)	MFR	
Frequency (MHz)				5195.01	5190	5200.99			
30	QPSK	1	1	18.18	18.10	18.75	20.5	0.0	
Channel				518000	518000	522000	Turn-up limit (dB)	MFR	
Frequency (MHz)				5180	5180	5220			
30	QPSK	1	1	18.00	18.22	18.30	20.5	0.0	

n41 PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)				2548.01	2548.50	2548			
100	PV2 BPSK	1	1	18.21	18.22	18.18			
100	PV2 BPSK	1	137	18.28	18.21	18.22	20.5	0.0	
100	PV2 BPSK	1	271	18.14	18.24	18.27			
100	PV2 BPSK	136	0	18.09	18.21	18.25	20.5	0.0	
100	PV2 BPSK	136	66	18.26	18.21	18.13	20.5	0.0	
100	PV2 BPSK	136	136	18.18	18.24	18.16			
100	PV2 BPSK	270	0	18.12	18.21	18.17	20.5	0.0	
100	QPSK	1	1	18.28	18.30	18.30			
100	QPSK	1	137	18.11	18.21	18.26	20.5	0.0	
100	QPSK	1	271	18.22	18.30	18.30			
100	QPSK	136	0	18.18	18.32	18.20	20.5	0.0	
100	QPSK	136	66	18.12	18.25	18.28	20.5	0.0	
100	QPSK	136	136	18.27	18.20	18.26	20.5	0.0	
100	QPSK	270	0	18.14	18.26	18.18			
100	16QAM	1	1	18.24	18.34	18.18	20.5	0.0	
100	16QAM	1	1	18.07	18.28	18.12	20.5	0.0	
100	256QAM	1	1	17.88	17.81	17.88	19.0	1.5	
Channel				528500	518998	528998	Turn-up limit (dB)	MFR	
Frequency (MHz)				5285	51899.9	52899.8			
30	QPSK	1	1	18.23	18.32	18.31	20.5	0.0	
Channel				537204	518998	537698	Turn-up limit (dB)	MFR	
Frequency (MHz)				5372.03	51899.9	5376.98			
30	QPSK	1	1	18.22	18.30	18.15	20.5	0.0	
Channel				530202	518998	531000	Turn-up limit (dB)	MFR	
Frequency (MHz)				5302.01	51899.9	5310			
30	QPSK	1	1	18.22	18.32	18.30	20.5	0.0	
Channel				535200	518998	535998	Turn-up limit (dB)	MFR	
Frequency (MHz)				5352	51899.9	5359.98			
30	QPSK	1	1	18.22	18.22	18.23	20.5	0.0	
Channel				525200	518998	525500	Turn-up limit (dB)	MFR	
Frequency (MHz)				5252.02	51899.9	5254.99			
30	QPSK	1	1	18.17	18.17	18.11	20.5	0.0	
Channel				525200	518998	526000	Turn-up limit (dB)	MFR	
Frequency (MHz)				5252.01	51899.9	5260			
40	QPSK	1	1	18.27	18.20	18.15	20.5	0.0	
Channel				525200	518998	536998	Turn-up limit (dB)	MFR	
Frequency (MHz)				5252	51899.9	5369.98			
30	QPSK	1	1	18.27	18.21	18.11	20.5	0.0	
Channel				525204	518998	536998	Turn-up limit (dB)	MFR	
Frequency (MHz)				5252.02	51899.9	5369.98			
20	QPSK	1	1	18.24	18.32	18.24	20.5	0.0	



n7 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (ms)	MFR (dB)	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	20.78	20.84	20.90			
50	P12 BPSK	1	136	20.73	20.80	20.87	21.5	0.0	
50	P12 BPSK	1	268	20.72	20.80	20.90			
50	P12 BPSK	136	0	20.75	20.81	20.84	21.5	0.0	
50	P12 BPSK	136	68	20.81	20.89	20.73	21.5	0.0	
50	P12 BPSK	136	135	20.85	20.90	20.85			
50	P12 BPSK	270	0	20.87	20.83	20.73	21.5	0.0	
50	QPSK	1	1	20.87	21.02	20.94			
50	QPSK	1	136	20.78	20.85	20.73	21.5	0.0	
50	QPSK	1	268	20.86	20.82	20.74			
50	QPSK	136	0	20.78	21.00	20.73	21.5	0.0	
50	QPSK	136	68	20.79	20.86	20.84	21.5	0.0	
50	QPSK	136	135	20.86	20.80	20.79	21.5	0.0	
50	QPSK	270	0	20.86	20.86	20.77			
50	16QAM	1	1	20.81	21.07	20.75	21.5	0.0	
50	16QAM	1	1	20.79	20.82	20.87	21.5	0.0	
50	256QAM	1	1	18.14	18.30	18.00	20.0	1.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.69	20.74	20.69	Take-up limit (dB)	MFR	
40	QPSK	1	1	20.68	20.69	20.96	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.80	20.82	20.80	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.79	20.90	20.84	21.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	20.78	21.01	20.79	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.78	20.87	20.88	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.78	20.83	20.87	21.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.71	20.81	20.83	21.5	0.0	

n66 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (ms)	MFR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.15	22.40	22.32			
40	P12 BPSK	1	108	22.31	22.35	22.23	23.5	0.0	
40	P12 BPSK	1	214	22.34	22.30	22.19			
40	P12 BPSK	108	0	22.23	22.25	22.13	23.5	0.0	
40	P12 BPSK	108	54	22.25	22.40	22.13	23.5	0.0	
40	P12 BPSK	108	108	22.16	22.25	22.26			
40	P12 BPSK	216	0	22.39	22.45	22.15	23.5	0.0	
40	QPSK	1	1	22.38	22.45	22.29			
40	QPSK	1	108	22.26	22.44	22.32	23.5	0.0	
40	QPSK	1	214	22.22	22.44	22.25			
40	QPSK	108	0	22.31	22.41	22.28	23.5	0.0	
40	QPSK	108	54	22.38	22.39	22.30	23.5	0.0	
40	QPSK	108	108	22.34	22.34	22.28	23.5	0.0	
40	QPSK	216	0	22.41	22.46	22.40			
40	16QAM	1	1	22.23	22.33	22.00	23.5	0.0	
40	16QAM	1	1	20.91	20.71	20.75	22.0	1.5	
40	256QAM	1	1	18.75	18.61	18.80	20.0	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.05	22.15	22.00	Take-up limit (dB)	MFR	
30	QPSK	1	1	22.35	22.45	22.16	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.37	22.37	22.36	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.23	22.38	22.27	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.38	22.46	22.23	23.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.39	22.50	22.19	23.5	0.0	



n38 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	21.14	21.02	21.72			
40	PV2 BPSK	1	53	20.30	20.50	20.88	21.5	0.0	
40	PV2 BPSK	1	104	20.04	21.01	20.92			
40	PV2 BPSK	50	0	20.81	20.92	20.71	21.5	0.0	
40	PV2 BPSK	50	28	20.79	20.94	20.83	21.5	0.0	
40	PV2 BPSK	50	56	20.66	20.96	20.72			
40	PV2 BPSK	100	0	20.89	21.02	20.86	21.5	0.0	
40	QPSK	1	1	20.96	21.10	20.91			
40	QPSK	1	53	20.76	20.84	20.91	21.5	0.0	
40	QPSK	1	104	20.95	21.02	20.78			
40	QPSK	50	0	20.90	20.85	20.78	21.5	0.0	
40	QPSK	50	28	20.83	21.02	20.83	21.5	0.0	
40	QPSK	50	56	20.79	20.92	20.72	21.5	0.0	
40	QPSK	100	0	20.86	20.96	20.84			
40	16QAM	1	1	20.70	20.95	20.83	21.5	0.0	
40	16QAM	1	1	20.83	21.04	20.72	21.5	0.0	
40	256QAM	1	1	18.53	18.51	18.49	20.0	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.53	18.52	18.49	Take-up limit (dB)	MFR (dB)	
30	QPSK	1	1	21.03	21.00	21.05	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.98	20.95	20.77	21.5	0.0	

n41 PC3 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	21.11	21.04	21.02			
100	PV2 BPSK	1	137	20.97	21.05	20.98	21.5	0.0	
100	PV2 BPSK	1	271	21.11	21.00	20.88			
100	PV2 BPSK	136	0	20.89	20.95	21.04	21.5	0.0	
100	PV2 BPSK	136	66	21.07	20.92	20.89	21.5	0.0	
100	PV2 BPSK	136	136	21.07	21.05	20.83			
100	PV2 BPSK	270	0	20.96	20.95	20.91	21.5	0.0	
100	QPSK	1	1	21.10	21.14	21.05			
100	QPSK	1	137	21.07	21.05	20.90	21.5	0.0	
100	QPSK	1	271	21.05	21.10	20.99			
100	QPSK	136	0	20.98	20.95	20.86	21.5	0.0	
100	QPSK	136	66	20.90	21.05	21.01	21.5	0.0	
100	QPSK	136	136	20.93	20.90	20.92	21.5	0.0	
100	QPSK	270	0	20.94	20.96	20.85			
100	16QAM	1	1	21.07	20.95	21.06	21.5	0.0	
100	16QAM	1	1	20.74	20.80	20.80	21.5	0.0	
100	256QAM	1	1	18.83	18.31	18.34	20.0	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.03	21.13	21.06	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.05	21.00	21.05	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.93	21.06	21.02	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.12	21.03	20.87	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.00	21.07	20.88	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.03	20.92	20.70	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.19	21.02	20.93	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.03	21.13	21.00	21.5	0.0	



Par270 n77 PC3 Ant9											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBfs)	MFR (dB)			
Channel											
100	PI2-BPSK	1	1	15.54	15.60	15.54					
100	PI2-BPSK	1	1	15.61	15.60	15.54		17.5	0.0		
100	PI2-BPSK	1	271	15.68	15.71	15.54					
100	PI2-BPSK	136	0	15.61	15.60	15.64		17.5	0.0		
100	PI2-BPSK	136	66	15.54	15.63	15.74		17.5	0.0		
100	PI2-BPSK	136	136	15.54	15.60	15.64					
100	PI2-BPSK	270	0	15.59	15.55	15.57		17.5	0.0		
100	QPSK	1	1	15.73	15.70	15.87					
100	QPSK	1	137	15.64	15.71	15.50		17.5	0.0		
100	QPSK	1	271	15.62	15.59	15.65					
100	QPSK	136	0	15.60	15.61	15.54		17.5	0.0		
100	QPSK	136	69	15.58	15.60	15.55		17.5	0.0		
100	QPSK	136	136	15.62	15.54	15.55		17.5	0.0		
100	QPSK	270	0	15.56	15.55	15.56					
100	16QAM	1	1	15.53	15.52	15.58		17.5	0.0		
100	16QAM	1	1	15.60	15.64	15.58		17.5	0.0		
100	256QAM	1	1	15.53	15.61	15.50		17.5	0.0		
Channel											
90	QPSK	1	1	15.52	15.70	15.51		17.5	0.0		
Channel											
80	QPSK	1	1	15.54	15.73	15.64		17.5	0.0		
Channel											
70	QPSK	1	1	15.56	15.64	15.59		17.5	0.0		
Channel											
60	QPSK	1	1	15.69	15.55	15.54		17.5	0.0		
Channel											
50	QPSK	1	1	15.66	15.61	15.56		17.5	0.0		
Channel											
40	QPSK	1	1	15.72	15.63	15.64		17.5	0.0		
Channel											
30	QPSK	1	1	15.78	15.62	15.53		17.5	0.0		
Channel											
20	QPSK	1	1	15.74	15.72	15.66		17.5	0.0		

Part27Q n77 PC3 Ant9											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBfs)	MFR (dB)			
Channel											
100	PI2-BPSK	1	1	15.67		15.60					
100	PI2-BPSK	1	137	15.56		15.72		17.5	0.0		
100	PI2-BPSK	1	271	15.72		15.61					
100	PI2-BPSK	136	0	15.62		15.60		17.5	0.0		
100	PI2-BPSK	136	66	15.60		15.62		17.5	0.0		
100	PI2-BPSK	136	136	15.64		15.54					
100	PI2-BPSK	270	0	15.58		15.58		17.5	0.0		
100	QPSK	1	1	15.77		15.64					
100	QPSK	1	137	15.64		15.64		17.5	0.0		
100	QPSK	1	271	15.62		15.62					
100	QPSK	136	0	15.54		15.54		17.5	0.0		
100	QPSK	136	69	15.58		15.58		17.5	0.0		
100	QPSK	136	136	15.60		15.60		17.5	0.0		
100	QPSK	270	0	15.55		15.55					
100	16QAM	1	1	15.52		15.52		17.5	0.0		
100	16QAM	1	1	15.60		15.60		17.5	0.0		
100	256QAM	1	1	15.58		15.68		17.5	0.0		
Channel											
90	QPSK	1	1	15.75		15.55		17.5	0.0		
Channel											
80	QPSK	1	1	15.55		15.78		17.5	0.0		
Channel											
70	QPSK	1	1	15.56		15.63		17.5	0.0		
Channel											
60	QPSK	1	1	15.73		15.60		17.5	0.0		
Channel											
50	QPSK	1	1	15.59		15.67		17.5	0.0		
Channel											
40	QPSK	1	1	15.72		15.59		17.5	0.0		
Channel											
30	QPSK	1	1	15.73		15.54		17.5	0.0		
Channel											
20	QPSK	1	1	15.72		15.62		17.5	0.0		

Part270 n78 PC2 Ant9											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBfs)	MFR (dB)			
Channel											
100	PI2-BPSK	1	1	15.48		15.48					
100	PI2-BPSK	1	137	15.61		15.61		17.0	0.0		
100	PI2-BPSK	1	271	15.31		15.31					
100	PI2-BPSK	136	0	15.45		15.45		17.0	0.0		
100	PI2-BPSK	136	66	15.60		15.60		17.0	0.0		
100	PI2-BPSK	136	136	15.50		15.50		17.0	0.0		
100	PI2-BPSK	270	0	15.47		15.47		17.0	0.0		
100	QPSK	1	1	15.59		15.59					
100	QPSK	1	137	15.48		15.48		17.0	0.0		
100	QPSK	1	271	15.30		15.30					
100	QPSK	136	0	15.35		15.35		17.0	0.0		
100	QPSK	136	69	15.50		15.50		17.0	0.0		
100	QPSK	136	136	15.50		15.50		17.0	0.0		
100	QPSK	270	0	15.45		15.45		17.0	0.0		
100	16QAM	1	1	15.41		15.41		17.0	0.0		
100	16QAM	1	1	15.51		15.51		17.0	0.0		
100	256QAM	1	1	15.44		15.44		17.0	0.0		
Channel											
90	QPSK	1	1	15.43		15.43		17.0	0.0		
Channel											
80	QPSK	1	1	15.33		15.44		17.0	0.0		
Channel											
70	QPSK	1	1	15.37		15.50		17.0	0.0		
Channel											
60	QPSK	1	1	15.31		15.30		17.0	0.0		
Channel											
50	QPSK	1	1	15.41		15.38		17.0	0.0		
Channel											
40	QPSK	1	1	15.39		15.34		17.0	0.0		
Channel											
30	QPSK	1	1	15.33		15.49		17.0	0.0		
Channel											
20	QPSK	1	1	15.22		15.41		17.0	0.0		



Part27Q 78 PC2 Ant9							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				833334			
100	PB4 BPSK	1	1	15.29			17.0
100	PB4 BPSK	1	137	15.32			17.0
100	PB4 BPSK	1	271	15.21			17.0
100	PB4 BPSK	1	405	15.43			17.0
100	PB4 BPSK	1	539	15.50			17.0
100	PB4 BPSK	1	673	15.27			17.0
100	PB4 BPSK	1	807	15.35			17.0
100	QPSK	1	1	15.53			17.0
100	QPSK	1	137	15.29			17.0
100	QPSK	1	271	15.46			17.0
100	QPSK	1	405	15.15			17.0
100	QPSK	1	539	15.31			17.0
100	QPSK	1	673	15.19			17.0
100	QPSK	1	807	15.27			17.0
100	16QAM	1	1	15.54			17.0
100	16QAM	1	1	15.52			17.0
100	16QAM	1	1	15.41			17.0
Channel							
Frequency (MHz)				833334			
50	QPSK	1	1	15.41	833334	833334	MPR
Frequency (MHz)				833334			
50	QPSK	1	1	15.41	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
80	QPSK	1	1	15.44	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
70	QPSK	1	1	15.38	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
60	QPSK	1	1	15.32	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
50	QPSK	1	1	15.24	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
40	QPSK	1	1	15.44	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
30	QPSK	1	1	15.30	833334	833334	MPR
Channel							
Frequency (MHz)				833334			
20	QPSK	1	1	15.29	833334	833334	MPR



Par270 n77 PC3 Ant10									
EW (Mhz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBfs)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	17.65	17.84	17.87			
100	PI2-BPSK	1	137	17.65	17.84	17.87		19.0	0.0
100	PI2-BPSK	1	271	17.67	17.87	17.90			
100	PI2-BPSK	136	0	17.70	17.73	17.80		19.0	0.0
100	PI2-BPSK	136	66	17.61	17.73	17.39		19.0	0.0
100	PI2-BPSK	136	138	17.56	17.56	17.56			
100	PI2-BPSK	270	0	17.54	17.55	17.47		19.0	0.0
100	QPSK	1	1	17.69	17.86	17.81			
100	QPSK	1	137	17.65	17.83	17.54		19.0	0.0
100	QPSK	1	271	17.50	17.78	17.54			
100	QPSK	136	0	17.58	17.86	17.80		19.0	0.0
100	QPSK	136	69	17.51	17.60	17.55		19.0	0.0
100	QPSK	136	138	17.54	17.78	17.52		19.0	0.0
100	QPSK	270	0	17.44	17.56				
100	16QAM	1	1	17.59	17.55	17.45		19.0	0.0
100	16QAM	1	1	17.63	17.86	17.42		19.0	0.0
100	16QAM	1	1	17.65	17.83	17.49		19.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.59	17.86	17.62	Time-up limit (dBfs)	MPR (dB)	
90	QPSK	1	1	17.59	17.86	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.50	17.80	17.60	Time-up limit (dBfs)	MPR (dB)	
80	QPSK	1	1	17.50	17.80	17.60	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.52	17.78	17.42	Time-up limit (dBfs)	MPR (dB)	
70	QPSK	1	1	17.52	17.78	17.42	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.53	17.73	17.58	Time-up limit (dBfs)	MPR (dB)	
60	QPSK	1	1	17.53	17.73	17.58	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.55	17.60	17.58	Time-up limit (dBfs)	MPR (dB)	
50	QPSK	1	1	17.55	17.60	17.58	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.50	17.60	17.60	Time-up limit (dBfs)	MPR (dB)	
40	QPSK	1	1	17.50	17.60	17.60	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.52	17.62	17.51	Time-up limit (dBfs)	MPR (dB)	
30	QPSK	1	1	17.52	17.62	17.51	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.54	17.54	17.56	Time-up limit (dBfs)	MPR (dB)	
20	QPSK	1	1	17.54	17.54	17.56	19.0	0.0	

Part27Q n77 PC3 Ant10									
EW (Mhz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBfs)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	17.45		18.00			
100	PI2-BPSK	1	137	17.57		17.57		19.0	0.0
100	PI2-BPSK	1	271	17.62		17.62			
100	PI2-BPSK	136	0	17.61		17.61		19.0	0.0
100	PI2-BPSK	136	66	17.47		17.47		19.0	0.0
100	PI2-BPSK	136	138	17.56		17.56			
100	PI2-BPSK	270	0	17.53		17.53		19.0	0.0
100	QPSK	1	1	17.68		17.68			
100	QPSK	1	137	17.58		17.58		19.0	0.0
100	QPSK	1	271	17.57		17.57			
100	QPSK	136	0	17.56		17.56		19.0	0.0
100	QPSK	136	69	17.52		17.52		19.0	0.0
100	QPSK	136	138	17.49		17.49			
100	QPSK	270	0	17.44		17.44		19.0	0.0
100	16QAM	1	1	17.53		17.53		19.0	0.0
100	16QAM	1	1	17.40		17.40		19.0	0.0
100	16QAM	1	1	17.48		17.48		19.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.55	17.50	17.47	Time-up limit (dBfs)	MPR (dB)	
90	QPSK	1	1	17.55	17.50	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.52	17.56	17.52	Time-up limit (dBfs)	MPR (dB)	
80	QPSK	1	1	17.52	17.56	17.52	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.59	17.59	17.44	Time-up limit (dBfs)	MPR (dB)	
70	QPSK	1	1	17.59	17.59	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.45	17.55	17.83	Time-up limit (dBfs)	MPR (dB)	
60	QPSK	1	1	17.45	17.55	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.51	17.47	17.51	Time-up limit (dBfs)	MPR (dB)	
50	QPSK	1	1	17.51	17.47	17.51	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.55	17.55	17.55	Time-up limit (dBfs)	MPR (dB)	
40	QPSK	1	1	17.55	17.55	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.50	17.41	17.42	Time-up limit (dBfs)	MPR (dB)	
30	QPSK	1	1	17.50	17.41	17.42	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.55	17.65	17.59	Time-up limit (dBfs)	MPR (dB)	
20	QPSK	1	1	17.55	17.65	17.59	19.0	0.0	

Part270 n78 PC2&3 Ant10									
EW (Mhz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up limit (dBfs)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	18.41		18.41			
100	PI2-BPSK	1	137	18.22		18.22		19.0	0.0
100	PI2-BPSK	1	271	18.40		18.40			
100	PI2-BPSK	136	0	18.32		18.32		19.0	0.0
100	PI2-BPSK	136	66	18.50		18.50		19.0	0.0
100	PI2-BPSK	136	138	18.28		18.28			
100	PI2-BPSK	270	0	18.35		18.35		19.0	0.0
100	QPSK	1	1	18.42		18.42			
100	QPSK	1	137	18.22		18.22		19.0	0.0
100	QPSK	1	271	18.20		18.20			
100	QPSK	136	0	18.40		18.40		19.0	0.0
100	QPSK	136	69	18.41		18.41		19.0	0.0
100	QPSK	136	138	18.22		18.22		19.0	0.0
100	QPSK	270	0	18.26		18.26			
100	16QAM	1	1	18.31		18.31		19.0	0.0
100	16QAM	1	1	18.42		18.42		19.0	0.0
100	16QAM	1	1	18.23		18.23		19.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.25	18.01	18.19	Time-up limit (dBfs)	MPR (dB)	
90	QPSK	1	1	18.25	18.01	18.19	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.14	18.18	18.15	Time-up limit (dBfs)	MPR (dB)	
80	QPSK	1	1	18.14	18.18	18.15	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.23	18.18	18.19	Time-up limit (dBfs)	MPR (dB)	
70	QPSK	1	1	18.23	18.18	18.19	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.25	18.01	18.16	Time-up limit (dBfs)	MPR (dB)	
60	QPSK	1	1	18.25	18.01	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.28	18.34	18.31	Time-up limit (dBfs)	MPR (dB)	
50	QPSK	1	1	18.28	18.34	18.31	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.13	18.29	18.18	Time-up limit (dBfs)	MPR (dB)	
40	QPSK	1	1	18.13	18.29	18.18	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.19	18.17	18.17	Time-up limit (dBfs)	MPR (dB)	
30	QPSK	1	1	18.19	18.17	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.25	18.19	18.26	Time-up limit (dBfs)	MPR (dB)	
20	QPSK	1	1	18.25	18.19	18.26	19.0	0.0	



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EW (MHz)	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)				83334						
100	PB4-PSK	1	1	18.29						
100	PB4-PSK	1	137	18.27			19.0	0.0		
100	PB4-PSK	1	271	18.32						
100	PB4-PSK	135	0	18.31			19.0	0.0		
100	PB4-PSK	135	66	18.38			19.0	0.0		
100	PB4-PSK	135	138	18.34						
100	PB4-PSK	270	0	18.34			19.0	0.0		
100	QPSK	1	1	18.47						
100	QPSK	1	137	18.42			19.0	0.0		
100	QPSK	1	271	18.26						
100	QPSK	135	0	18.42			19.0	0.0		
100	QPSK	135	66	18.44			19.0	0.0		
100	QPSK	135	138	18.34						
100	QPSK	270	0	18.37			19.0	0.0		
100	16QAM	1	1	18.54			19.0	0.0		
100	16QAM	1	1	18.41			19.0	0.0		
100	16QAM	1	1	18.27			19.0	0.0		
Channel										
Frequency (MHz)				83334			83388	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				83334			83388	19.0	0.0	
90	QPSK	1	1	18.33	18.28	18.41				
Channel										
Frequency (MHz)				83388			83334	83400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83388			83334	83400	19.0	0.0
80	QPSK	1	1	18.19	18.21	18.19				
Channel										
Frequency (MHz)				83334			83334	83434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83334			83334	83434	19.0	0.0
70	QPSK	1	1	18.22	18.34	18.42				
Channel										
Frequency (MHz)				83334			83334	83468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83334			83334	83468	19.0	0.0
60	QPSK	1	1	18.20	18.42	18.35				
Channel										
Frequency (MHz)				83334			83334	83500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83334			83334	83500	19.0	0.0
50	QPSK	1	1	18.30	18.20	18.29				
Channel										
Frequency (MHz)				83334			83334	83534	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83334			83334	83534	19.0	0.0
40	QPSK	1	1	18.27	18.23	18.35				
Channel										
Frequency (MHz)				83334			83334	83568	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83334			83334	83568	19.0	0.0
30	QPSK	1	1	18.22	18.19	18.32				
Channel										
Frequency (MHz)				83334			83334	83600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				83334			83334	83600	19.0	0.0
20	QPSK	1	1	18.20	18.31	18.21				



Par270 n77 PC3 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tx-to-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	18.59	19.07	19.10			
100	PI2-BPSK	1	137	19.01	19.08	19.12	20.5	0.0	
100	PI2-BPSK	1	271	18.99	18.98	18.99			
100	PI2-BPSK	136	0	19.02	19.01	19.02	20.5	0.0	
100	PI2-BPSK	136	66	18.99	19.14	19.13	20.5	0.0	
100	PI2-BPSK	136	138	18.99	18.98	18.99			
100	PI2-BPSK	236	0	19.05	19.05	19.05	20.5	0.0	
100	QPSK	1	1	19.02	19.22	19.19			
100	QPSK	1	137	19.03	19.16	19.12	20.5	0.0	
100	QPSK	1	271	18.97	19.04	19.11			
100	QPSK	136	0	18.98	19.11	19.07	20.5	0.0	
100	QPSK	136	69	19.02	19.21	19.16	20.5	0.0	
100	QPSK	136	138	18.91	19.14	19.10	20.5	0.0	
100	QPSK	236	0	18.95	19.06	19.01			
100	16QAM	1	1	19.03	19.08	19.09	20.5	0.0	
100	16QAM	1	1	19.01	19.05	19.01	20.5	0.0	
100	256QAM	1	1	17.58	17.58	17.50	19.0	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.57	19.15	19.17	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.02	19.19	19.08	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.99	19.20	19.99	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.98	19.17	19.11	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.94	19.10	19.10	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.99	19.00	19.07	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.99	19.20	19.99	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.01	19.15	19.20	20.5	0.0	

Part270Q n77 PC3 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tx-to-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	19.22	6500.01				
100	PI2-BPSK	1	137	19.04			20.5	0.0	
100	PI2-BPSK	1	271	19.15					
100	PI2-BPSK	136	0	19.12			20.5	0.0	
100	PI2-BPSK	136	66	19.13			20.5	0.0	
100	PI2-BPSK	136	138	19.17					
100	PI2-BPSK	236	0	19.05			20.5	0.0	
100	QPSK	1	1	19.20					
100	QPSK	1	137	19.21			20.5	0.0	
100	QPSK	1	271	19.23					
100	QPSK	136	0	19.05			20.5	0.0	
100	QPSK	136	69	19.12			20.5	0.0	
100	QPSK	136	138	19.11			20.5	0.0	
100	QPSK	236	0	19.06			20.5	0.0	
100	16QAM	1	1	19.20			20.5	0.0	
100	16QAM	1	1	19.20			20.5	0.0	
100	256QAM	1	1	17.41			20.0	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.16	19.14	19.16	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.19	19.19	19.19	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.04	19.19	19.08	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.14	19.10	19.04	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.11	19.21	19.08	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.10	19.18	19.18	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.14	19.21	19.12	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.20	19.12	19.07	20.5	0.0	

Part270 n78 PC2&3 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tx-to-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	19.48	6500.00				
100	PI2-BPSK	1	137	19.80			21.0	0.0	
100	PI2-BPSK	1	271	19.79					
100	PI2-BPSK	136	0	19.80			21.0	0.0	
100	PI2-BPSK	136	66	19.73			21.0	0.0	
100	PI2-BPSK	136	138	19.78					
100	PI2-BPSK	236	0	19.58			21.0	0.0	
100	QPSK	1	1	19.82					
100	QPSK	1	137	19.82			21.0	0.0	
100	QPSK	1	271	19.87					
100	QPSK	136	0	19.83			21.0	0.0	
100	QPSK	136	69	19.80			21.0	0.0	
100	QPSK	136	138	19.78			21.0	0.0	
100	QPSK	236	0	19.70			21.0	0.0	
100	16QAM	1	1	19.87			21.0	0.0	
100	16QAM	1	1	19.87			21.0	0.0	
100	256QAM	1	1	18.78			20.5	0.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.73	19.73	19.87	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.89	19.72	19.83	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.83	19.79	19.80	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.58	19.88	19.80	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.57	19.80	19.77	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.81	19.40	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.89	19.83	19.82	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.85	19.85	19.78	21.0	0.0	



Part27Q 78 PC3 Ant11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
	Channel				83334					
	Frequency (MHz)				3500.01					
100	PB4 BPSK	1	1		19.89					
100	PB4 BPSK	1	137		19.54			21.0	0.0	
100	PB4 BPSK	1	271		19.63					
100	PB4 BPSK	135	1		19.60					
100	PB4 BPSK	135	69		19.52			21.0	0.0	
100	PB4 BPSK	135	234		19.61					
100	PB4 BPSK	270	71		19.46			21.0	0.0	
100	QPSK	1	1		19.72					
100	QPSK	1	137		19.64			21.0	0.0	
100	QPSK	1	271		19.63					
100	QPSK	135	0		19.67					
100	QPSK	135	66		19.70			21.0	0.0	
100	QPSK	135	138		19.58					
100	QPSK	270	0		19.63			21.0	0.0	
100	16QAM	1	1		19.50			21.0	0.0	
100	16QAM	1	1		19.58			21.0	0.0	
100	256QAM	1	1		19.89			21.0	0.0	
	Channel				83334	83388		Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)				3500.01	3500.02				
50	QPSK	1	1		19.54	19.60		19.51	21.0	0.0
	Channel				83388	83334		Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)				3500.02	3500.01				
80	QPSK	1	1		19.59	19.67		19.59	21.0	0.0
	Channel				83334	83334	83434		Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)				3500.01	3500.01	3510.01			
70	QPSK	1	1		19.54	19.52		19.62	21.0	0.0
	Channel				83500	83334	83600		Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)				3490.00	3500.01	3500.00			
80	QPSK	1	1		19.69	19.51		19.48	21.0	0.0
	Channel				83334	83334	83500		Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)				3495.02	3500.01	3500.01			
50	QPSK	1	1		19.63	19.50		19.60	21.0	0.0
	Channel				83334	83334	83500		Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)				3490.01	3500.01	3500.01			
40	QPSK	1	1		19.40	19.63		19.63	21.0	0.0
	Channel				83100	83334	83668		Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)				3500.01	3500.01	3510.02			
30	QPSK	1	1		19.63	19.51		19.54	21.0	0.0
	Channel				83668	83334	83600		Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)				3510.02	3500.01	3500.01			
20	QPSK	1	1		19.55	19.60		19.40	21.0	0.0



n5 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F [Hz]	Power High Ch. F [Hz]	Tune-up limit [dBm]	MPR [dB]
Channel							
Frequency (MHz)				16860	16730	16900	
20	Pi4 BPSK	1	1	2448	2452	2453	25.5
20	Pi4 BPSK	1	53	2437	2441	2424	0.0
20	Pi4 BPSK	1	104	2426	2430	2433	0.0
20	Pi4 BPSK	50	5	2417	2420	2409	0.5
20	Pi4 BPSK	50	28	2413	2399	2396	0.0
20	Pi4 BPSK	50	56	2421	2434	2429	0.0
20	Pi4 BPSK	150	0	2365	2323	2353	0.5
20	QPSK	1	1	2444	2448	2453	0.0
20	QPSK	1	53	2437	2450	2446	0.0
20	QPSK	1	104	2448	2453	2436	0.0
20	QPSK	50	0	2340	2323	2332	1.0
20	QPSK	50	26	2327	2351	2356	0.0
20	QPSK	50	56	2327	2345	2358	1.0
20	QPSK	150	0	2255	2266	2259	0.0
20	HSQAM	1	1	2359	2343	2350	1.0
20	HSQAM	1	1	2221	2211	2215	1.0
20	ZSQAAM	1	1	2012	2004	2016	4.5
Channel							
Frequency (MHz)				16530	16730	16930	
15	QPSK	1	1	2440	2460	2447	0.0
Channel							
Frequency (MHz)				16580	16730	16880	
10	QPSK	1	1	2446	2450	2454	0.0
Channel							
Frequency (MHz)				16530	16730	16930	
5	QPSK	1	1	2442	2462	2440	0.0

DS4							
n7 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F [Hz]	Power High Ch. F [Hz]	Tune-up limit [dBm]	MPR [dB]
Channel							
Frequency (MHz)				50600	50700	50800	
50	Pi4 BPSK	1	1	2212	2214	2210	0.0
50	Pi4 BPSK	1	135	2207	2213	2202	0.0
50	Pi4 BPSK	1	268	2201	2211	2217	0.0
50	Pi4 BPSK	136	5	2187	2173	2184	0.5
50	Pi4 BPSK	136	68	2208	2223	2208	0.0
50	Pi4 BPSK	136	135	2184	2179	2186	0.5
50	Pi4 BPSK	270	0	2188	2178	2184	0.0
50	QPSK	1	1	2216	2226	2220	0.0
50	QPSK	1	135	2205	2215	2202	0.0
50	QPSK	1	268	2203	2212	2205	0.0
50	QPSK	136	0	2107	2113	2111	1.0
50	QPSK	136	68	2207	2217	2201	0.0
50	QPSK	136	135	2081	2091	2080	0.0
50	QPSK	270	0	2090	2100	2096	0.0
50	HSQAM	1	1	2114	2120	2116	1.0
50	HSQAM	1	1	1876	1820	1832	1.0
50	ZSQAAM	1	1	1788	1776	1782	4.5
Channel							
Frequency (MHz)				50400	50700	51000	
40	QPSK	1	1	2184	2211	2186	0.0
Channel							
Frequency (MHz)				50500	50700	51000	
30	QPSK	1	1	2188	2208	2197	0.0
Channel							
Frequency (MHz)				50500	50700	51000	
25	QPSK	1	1	2183	2213	2184	0.0
Channel							
Frequency (MHz)				50500	50700	51000	
30	QPSK	1	1	2189	2209	2191	0.0
Channel							
Frequency (MHz)				50150	50700	51050	
15	QPSK	1	1	2117	2230	2106	0.0
Channel							
Frequency (MHz)				50100	50700	51000	
10	QPSK	1	1	2218	2234	2204	0.0
Channel							
Frequency (MHz)				50600	50700	51050	
5	QPSK	1	1	2207	2200	2208	0.0

n66 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F [Hz]	Power High Ch. F [Hz]	Tune-up limit [dBm]	MPR [dB]
Channel							
Frequency (MHz)				34600	34600	34600	
40	Pi4 BPSK	1	1	2269	2269	2262	0.0
40	Pi4 BPSK	1	108	2271	2266	2259	0.0
40	Pi4 BPSK	1	214	2254	2273	2270	0.0
40	Pi4 BPSK	108	5	2211	2216	2219	0.5
40	Pi4 BPSK	108	54	2267	2262	2263	0.0
40	Pi4 BPSK	108	108	2237	2230	2241	0.0
40	Pi4 BPSK	216	0	2213	2213	2224	0.0
40	QPSK	1	1	2266	2276	2272	0.0
40	QPSK	1	108	2259	2250	2276	0.0
40	QPSK	1	214	2262	2263	2264	0.0
40	QPSK	108	0	2170	2164	2177	1.0
40	QPSK	108	54	2265	2268	2263	0.0
40	QPSK	108	108	2193	2184	2196	1.0
40	QPSK	216	0	2251	2255	2263	0.0
40	HSQAM	1	1	2189	2180	2183	1.0
40	HSQAM	1	1	2011	2000	2016	1.0
40	ZSQAAM	1	1	1807	1800	1810	4.5
Channel							
Frequency (MHz)				34500	34600	35000	
30	QPSK	1	1	2268	2259	2259	0.0
Channel							
Frequency (MHz)				34600	34600	34600	
20	QPSK	1	1	2258	2270	2280	0.0
Channel							
Frequency (MHz)				34500	34600	34600	
15	QPSK	1	1	2257	2248	2270	0.0
Channel							
Frequency (MHz)				34500	34600	34600	
10	QPSK	1	1	2254	2270	2270	0.0
Channel							
Frequency (MHz)				34500	34600	34600	
5	QPSK	1	1	2207	2273	2271	0.0



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EW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tx-to-x (dB)	MPR (dB)
Channel								
Frequency (MHz)								
				5160.0	5160.0	5160.0		
40	PI2-BPSK	1	1	21.00	21.02	21.92		
40	PI2-BPSK	1	33	21.83	21.85	21.79	-23.5	0.0
40	PI2-BPSK	1	104	21.81	21.80	21.81		
40	PI2-BPSK	90	0	21.42	21.43	21.43	-23.0	0.5
40	PI2-BPSK	90	28	21.74	21.72	21.85	-23.5	0.0
40	PI2-BPSK	90	56	21.56	21.70	21.44		
40	PI2-BPSK	100	0	21.23	21.27	21.32	-23.0	0.5
40	QPSK	1	1	21.98	22.04	21.85		
40	QPSK	1	93	21.98	21.89	21.94	-23.5	0.0
40	QPSK	1	104	21.88	21.87	21.88		
40	QPSK	90	0	20.83	20.87	20.97	-22.5	1.0
40	QPSK	90	28	21.85	21.86	21.87	-23.5	0.0
40	QPSK	90	56	20.73	20.67	20.74	-22.5	1.0
40	QPSK	100	0	20.67	20.78	20.72		
40	EQAM	1	1	19.59	19.57	19.87	-21.0	2.5
40	EQAM	1	1	17.58	17.48	17.42	-19.5	4.5
Channel								
Frequency (MHz)								
				5190.0	5190.0	5200.0	Tx-to-x limit	MPR
30	QPSK	1	1	22.01	22.01	21.80	-23.5	0.0
Channel								
Frequency (MHz)								
				5180.0	5180.0	5200.0	Tx-to-x limit	MPR
30	QPSK	1	1	21.93	22.02	21.74	-23.5	0.0

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EW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tx-to-x (dB)	MPR (dB)
Channel								
Frequency (MHz)								
				2446.01	2446.20	2446		
100	PI2-BPSK	1	1	21.02	21.04	21.17		
100	PI2-BPSK	1	137	21.59	21.63	21.73	-23.5	0.0
100	PI2-BPSK	1	271	21.59	21.7	21.85		
100	PI2-BPSK	136	0	21.31	21.23	21.22	-23.0	0.5
100	PI2-BPSK	136	66	21.51	21.52	21.66	-23.5	0.0
100	PI2-BPSK	136	136	21.61	21.68	21.60		
100	PI2-BPSK	270	0	21.24	21.15	21.31	-23.0	0.5
100	QPSK	1	1	22.09	22.13	21.93		
100	QPSK	1	137	21.62	21.63	21.81	-23.5	0.0
100	QPSK	1	271	21.85	21.63	21.68		
100	QPSK	136	0	20.79	20.86	20.80	-22.5	1.0
100	QPSK	136	66	22.05	22.07	21.91	-23.5	0.0
100	QPSK	136	136	20.51	20.67	20.86	-22.5	1.0
100	QPSK	270	0	21.55	21.48	21.42		
100	EQAM	1	1	19.43	19.41	19.49	-21.0	2.5
100	EQAM	1	1	17.38	17.31	17.40	-19.5	4.5
Channel								
Frequency (MHz)								
				5090.0	5189.8	5209.0	Tx-to-x limit	MPR
90	QPSK	1	1	22.04	22.05	21.76	-23.5	0.0
Channel								
Frequency (MHz)								
				5079.04	5189.8	5209.9	Tx-to-x limit	MPR
80	QPSK	1	1	21.96	22.03	21.85	-23.5	0.0
Channel								
Frequency (MHz)								
				5080.02	5189.6	5310.0	Tx-to-x limit	MPR
70	QPSK	1	1	22.03	22.08	21.82	-23.5	0.0
Channel								
Frequency (MHz)								
				5050.0	5189.8	5319.8	Tx-to-x limit	MPR
60	QPSK	1	1	21.98	22.03	21.83	-23.5	0.0
Channel								
Frequency (MHz)								
				5251.01	5352.90	5355	Tx-to-x limit	MPR
50	QPSK	1	1	21.94	22.02	21.83	-23.5	0.0
Channel								
Frequency (MHz)								
				5050.0	5189.8	5300.0	Tx-to-x limit	MPR
40	QPSK	1	1	21.89	22.02	21.80	-23.5	0.0
Channel								
Frequency (MHz)								
				5020.0	5189.8	5309.8	Tx-to-x limit	MPR
30	QPSK	1	1	22.01	22.02	21.74	-23.5	0.0
Channel								
Frequency (MHz)								
				5010.08	5189.8	5309.8	Tx-to-x limit	MPR
20	QPSK	1	1	22.05	22.05	21.80	-23.5	0.0

Par270 n77 PC3 Ant0

EW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tx-to-x (dB)	MPR (dB)
Channel								
Frequency (MHz)								
				3300	3300	3300		
100	PI2-BPSK	1	1	21.14	21.43	21.37		
100	PI2-BPSK	1	137	21.80	21.69	21.53	-23.5	0.0
100	PI2-BPSK	1	271	21.58	21.52	21.86		
100	PI2-BPSK	136	0	21.42	21.68	21.51	-23.0	0.5
100	PI2-BPSK	136	66	21.76	21.67	21.74	-23.5	0.0
100	PI2-BPSK	136	136	21.66	21.70	21.60		
100	PI2-BPSK	270	0	21.30	21.35	21.38	-23.0	0.5
100	QPSK	1	1	21.82	21.89	21.86		
100	QPSK	1	137	21.66	21.78	21.75	-23.5	0.0
100	QPSK	1	271	21.82	21.87	21.88		
100	QPSK	136	0	21.87	21.86	21.70	-22.5	1.0
100	QPSK	136	66	21.81	21.80	21.79	-23.5	0.0
100	QPSK	136	136	20.84	20.89	20.70	-22.5	1.0
100	QPSK	270	0	20.86	20.88	20.87		
100	EQAM	1	1	19.43	19.35	19.47	-22.5	1.0
100	EQAM	1	1	17.48	17.40	17.40	-19.5	4.5
Channel								
Frequency (MHz)								
				6496.68	6560.0	6623.4	Tx-to-x limit	MPR
90	QPSK	1	1	21.84	22.05	21.53	-23.5	0.0
Channel								
Frequency (MHz)								
				6493.34	6560.0	6626.6	Tx-to-x limit	MPR
80	QPSK	1	1	21.81	21.79	21.83	-23.5	0.0
Channel								
Frequency (MHz)								
				6490.00	6560.0	6630.0	Tx-to-x limit	MPR
70	QPSK	1	1	21.81	21.74	21.57	-23.5	0.0
Channel								
Frequency (MHz)								
				6486.68	6600.0	6633.4	Tx-to-x limit	MPR
60	QPSK	1	1	21.82	21.78	21.56	-23.5	0.0
Channel								
Frequency (MHz)								
				3726.01	3800	3800.02	Tx-to-x limit	MPR
50	QPSK	1	1	21.88	21.81	21.60	-23.5	0.0
Channel								
Frequency (MHz)								
				3720.00	3800.0	3800.0	Tx-to-x limit	MPR
40	QPSK	1	1	21.89	21.80	21.60	-23.5	0.0
Channel								
Frequency (MHz)								
				6476.68	6600.0	6643.4	Tx-to-x limit	MPR
30	QPSK	1	1	21.72	21.84	21.60	-23.5	0.0
Channel								
Frequency (MHz)								
				6473.34	6600.0	6646.6	Tx-to-x limit	MPR
20	QPSK	1	1	21.44	21.76	21.47	-23.5	0.0



Part27Q n77 PC3 Ant0								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Frequency (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	21.88				
100	PI2-BPSK	1	137	21.70			23.5	0.0
100	PI2-BPSK	1	271	21.69				
100	PI2-BPSK	135	0	21.68			23.5	0.0
100	PI2-BPSK	135	69	21.31			23.5	0.0
100	PI2-BPSK	135	135	21.34			23.5	0.0
100	PI2-BPSK	270	0	21.32			23.0	0.5
100	QPSK	1	1	22.04				
100	QPSK	1	137	22.20			23.5	0.0
100	QPSK	1	271	21.81				
100	QPSK	135	0	21.78			23.5	0.0
100	QPSK	135	66	22.00			23.5	0.0
100	QPSK	135	138	20.99			24.5	1.0
100	QPSK	270	0	21.4			24.5	1.0
100	ISDM	1	1	21.04			25.5	1.0
100	B4QAM	1	1	19.59			24.8	2.5
100	B2QAM	1	1	17.88			18.0	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	83334	83334	83388	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.75	21.81	21.87	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.70	21.72	21.87	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.63	21.89	21.80	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83334	83334	83434	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	83334	83334	83434	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	3495.02	3500.91	3502	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3495.02	3500.91	3502	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3495.02	3500.91	3502	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.70	21.69	21.66	23.5	0.0

Part27O n78 PC3 Ant0								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Frequency (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	21.88				
100	PI2-BPSK	1	137	21.58			23.5	0.0
100	PI2-BPSK	1	271	21.64				
100	PI2-BPSK	135	0	21.61			23.5	0.0
100	PI2-BPSK	135	69	21.79			23.5	0.0
100	PI2-BPSK	135	135	21.67			23.5	0.0
100	PI2-BPSK	270	0	21.74			23.0	0.0
100	QPSK	1	1	22.04				
100	QPSK	1	137	22.09			23.5	0.0
100	QPSK	1	271	21.78				
100	QPSK	135	0	21.80			23.5	0.0
100	QPSK	135	66	21.79			23.5	0.0
100	QPSK	135	138	21.53			23.5	0.0
100	QPSK	270	0	21.8			23.5	0.0
100	ISDM	1	1	21.05			25.5	1.0
100	B4QAM	1	1	21.69			24.8	2.5
100	B2QAM	1	1	19.81			18.5	3.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	84988	85000	85034	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.62	21.68	21.64	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	84988	85000	85068	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.55	21.64	21.60	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	84988	85000	85100	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.65	21.61	21.67	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	84988	85000	85134	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	84988	85000	85134	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.52	21.68	21.60	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	84988	85000	85200	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	84988	85000	85234	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.54	21.63	21.62	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	84988	85000	85268	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.61	21.64	21.64	23.5	0.0

Part27O n78 PC2 Ant0								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Frequency (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	22.28				
100	PI2-BPSK	1	137	22.42			25.0	0.0
100	PI2-BPSK	1	271	22.62				
100	PI2-BPSK	135	0	22.67			24.5	0.5
100	PI2-BPSK	135	69	22.24			25.0	0.0
100	PI2-BPSK	135	135	22.44			24.5	0.5
100	PI2-BPSK	270	0	21.95			24.5	0.5
100	QPSK	1	1	23.46			25.0	0.0
100	QPSK	1	137	23.14			24.5	1.0
100	QPSK	1	271	22.45				
100	QPSK	135	0	22.33			24.5	1.0
100	QPSK	135	66	22.05			25.0	0.0
100	QPSK	135	138	21.89			24.5	1.0
100	QPSK	270	0	22.3			24.5	1.0
100	ISDM	1	1	21.00			25.0	1.0
100	B4QAM	1	1	20.77			24.5	2.5
100	B2QAM	1	1	18.88			18.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	84988	85000	85034	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.32	23.30	23.34	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	84988	85000	85068	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.26	23.24	23.18	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	84988	85000	85100	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.29	23.18	23.22	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	84988	85000	85134	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.30	23.24	23.29	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	84988	85000	85200	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.11	23.23	23.36	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	84988	85000	85234	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.27	23.29	23.12	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	84988	85000	85268	Tune-up Int. (dBm)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.30	23.25	23.29	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.22	23.09	23.20	25.0	0.0



Part27Q 78 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3560.01							
100	PB2 BPSK	1	1	21.81			
100	PB2 BPSK	1	137	21.87			23.5
100	PB2 BPSK	1	273	21.93			
100	PB2 BPSK	195	5	21.88			
100	PB2 BPSK	195	69	21.94			23.5
100	PB2 BPSK	195	135	21.91			
100	PB2 BPSK	270	5	21.95			23.0
100	QPSK	1	1	22.00			
100	QPSK	1	137	21.94			23.5
100	QPSK	1	273	21.83			
100	QPSK	195	5	21.88			23.5
100	QPSK	195	69	21.83			
100	QPSK	195	135	21.89			
100	QPSK	270	5	21.94			23.5
100	16QAM	1	1	21.90			25.0
100	16QAM	1	1	21.93			24.0
100	256QAM	1	1	19.07			19.0
Channel							
Frequency (MHz)							
83300							
90	QPSK	1	1	21.75	21.77	21.88	23.5
Channel							
Frequency (MHz)							
83388							
80	QPSK	1	1	21.70	21.73	21.70	23.5
Channel							
Frequency (MHz)							
83234							
70	QPSK	1	1	21.73	21.88	21.75	23.5
Channel							
Frequency (MHz)							
83000							
60	QPSK	1	1	21.70	21.77	21.70	23.5
Channel							
Frequency (MHz)							
3475.02							
50	QPSK	1	1	21.88	21.88	21.88	23.5
Channel							
Frequency (MHz)							
3470.01							
40	QPSK	1	1	21.68	21.64	21.63	23.5
Channel							
Frequency (MHz)							
3490							
30	QPSK	1	1	21.71	21.72	21.63	23.5
Channel							
Frequency (MHz)							
3492							
20	QPSK	1	1	21.67	21.66	21.66	23.5

Part27Q 78 PC2 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3560.01							
100	PB2 BPSK	1	1	22.21			
100	PB2 BPSK	1	137	22.27			25.0
100	PB2 BPSK	1	273	22.24			
100	PB2 BPSK	195	5	22.25			24.5
100	PB2 BPSK	195	69	22.28			25.0
100	PB2 BPSK	195	135	22.21			
100	PB2 BPSK	270	5	22.27			24.5
100	QPSK	1	1	22.30			25.0
100	QPSK	1	137	22.23			
100	QPSK	1	273	22.27			24.5
100	QPSK	195	5	22.26			25.0
100	QPSK	195	69	22.29			24.5
100	QPSK	195	135	22.20			
100	QPSK	270	5	22.24			24.5
100	16QAM	1	1	21.75			25.0
100	16QAM	1	1	21.88			22.5
100	256QAM	1	1	19.13			19.5
Channel							
Frequency (MHz)							
83300							
90	QPSK	1	1	23.10	23.25	23.20	25.0
Channel							
Frequency (MHz)							
83388							
80	QPSK	1	1	23.17	23.25	23.29	25.0
Channel							
Frequency (MHz)							
83234							
70	QPSK	1	1	23.20	23.29	23.28	25.0
Channel							
Frequency (MHz)							
83000							
60	QPSK	1	1	23.19	23.28	23.19	25.0
Channel							
Frequency (MHz)							
3475.02							
50	QPSK	1	1	23.22	23.21	23.21	25.0
Channel							
Frequency (MHz)							
3470.01							
40	QPSK	1	1	23.27	23.23	23.20	23.0
Channel							
Frequency (MHz)							
3490							
30	QPSK	1	1	23.14	23.28	23.29	25.0
Channel							
Frequency (MHz)							
3492							
20	QPSK	1	1	23.12	23.29	23.17	25.0



n5 Ant1									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				16500	16700	16900			
Frequency (MHz)				164	168	172			
20	PI2 BPSK	1	1	22.43	22.43	22.83			
20	PI2 BPSK	1	93	22.60	22.55	22.43	23.0	0.0	
20	PI2 BPSK	1	104	22.53	22.50	22.47			
20	PI2 BPSK	50	0	22.39	22.52	22.56	23.0	0.0	
20	PI2 BPSK	50	28	22.35	22.61	22.46	23.0	0.0	
20	PI2 BPSK	50	56	22.38	22.4	22.47			
20	PI2 BPSK	100	0	22.38	22.5	22.57	23.0	0.0	
20	QPSK	1	1	22.51	22.68	22.83			
20	QPSK	1	50	22.65	22.43	22.43	23.0	0.0	
20	QPSK	1	104	22.38	22.5	22.28			
20	QPSK	50	0	22.44	22.55	22.55	23.0	0.0	
20	QPSK	50	28	22.45	22.55	22.44	23.0	0.0	
20	QPSK	50	56	22.32	22.61	22.63			
20	QPSK	100	0	22.47	22.55	22.46	23.0	0.0	
20	16QAM	1	1	22.45	22.55	22.59	23.5	0.0	
20	16QAM	1	1	21.77	21.80	21.87	22.5	0.5	
20	16QAM	1	1	18.54	18.53	18.90	20.5	2.5	
Channel				16500	16700	16900	Time-up limit	MPR	
Frequency (MHz)				168.5	168.5	168.5	23.0	0.0	
15	QPSK	1	1	22.42	22.65	22.55	23.0	0.0	
Channel				16500	16700	16900	Time-up limit	MPR	
Frequency (MHz)				168	168.5	169	23.0	0.0	
10	QPSK	1	1	22.30	22.55	22.57	23.0	0.0	
Channel				16500	16700	16900	Time-up limit	MPR	
Frequency (MHz)				168.5	168.5	168.5	23.0	0.0	
5	QPSK	1	1	22.47	22.61	22.48	23.0	0.0	



n7 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	2150	2130	2130	2130	2130	24.0	0.0
50	PV2 BPSK	1	136	2227	2237	2237	2237	2237	24.0	0.0
50	PV2 BPSK	1	268	2221	2231	2231	2231	2231	24.0	0.0
50	PV2 BPSK	136	3	2187	2193	2193	2193	2193	23.5	0.5
50	PV2 BPSK	136	68	2228	2243	2243	2243	2243	24.0	0.0
50	PV2 BPSK	136	135	2184	2196	2196	2196	2196	23.5	0.5
50	PV2 BPSK	270	3	2158	2158	2158	2158	2158	24.0	0.0
50	QPSK	1	1	2248	2248	2248	2248	2248	24.0	0.0
50	QPSK	1	136	2225	2235	2235	2235	2235	24.0	0.0
50	QPSK	1	268	2223	2232	2232	2232	2232	24.0	0.0
50	QPSK	136	3	2127	2136	2136	2136	2136	23.0	1.0
50	QPSK	136	68	2215	2228	2228	2228	2228	24.0	0.0
50	QPSK	136	135	2131	2141	2141	2141	2141	23.0	1.0
50	QPSK	270	3	2146	2156	2156	2156	2156	23.0	1.0
50	QPSK	1	1	2154	2145	2136	2136	2136	23.0	1.0
50	8QAM	1	1	1967	1977	1983	1983	1983	21.5	2.5
50	25QAM	1	1	1738	1738	1738	1738	1738	19.5	4.5
Channel										
Frequency (MHz)										
40	QPSK	1	1	2244	2252	2241	2241	2241	24.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1	2243	2255	2234	2234	2234	24.0	0.0
Channel										
Frequency (MHz)										
25	QPSK	1	1	2231	2251	2253	2253	2253	24.0	0.0
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	2234	2255	2238	2238	2238	24.0	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1	2212	2247	2248	2248	2248	24.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1	2210	2243	2243	2243	2243	24.0	0.0
Channel										
Frequency (MHz)										
5	QPSK	1	1	2227	2250	2243	2243	2243	24.0	0.0

n66 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power Line Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	2446	2446	2446	2446	2446	25.5	0.0
40	PV2 BPSK	1	108	2452	2440	2454	2454	2454	25.0	0.5
40	PV2 BPSK	1	214	2449	2454	2480	2480	2480	25.0	0.5
40	PV2 BPSK	108	3	2411	2420	2427	2427	2427	25.0	0.5
40	PV2 BPSK	108	64	2449	2447	2448	2448	2448	25.5	0.0
40	PV2 BPSK	108	126	2445	2450	2451	2451	2451	25.0	0.5
40	PV2 BPSK	216	3	2437	2437	2437	2437	2437	25.5	0.0
40	QPSK	1	1	2454	2451	2458	2458	2458	25.5	0.0
40	QPSK	1	108	2455	2452	2442	2442	2442	25.0	0.0
40	QPSK	1	214	2448	2451	2458	2458	2458	25.5	0.0
40	QPSK	108	3	2445	2445	2446	2446	2446	24.5	1.0
40	QPSK	108	64	2438	2442	2438	2438	2438	25.5	0.0
40	QPSK	108	126	2437	2432	2432	2432	2432	24.5	1.0
40	QPSK	216	3	2456	2456	2456	2456	2456	24.1	1.0
40	8QAM	1	1	2328	2331	2327	2327	2327	24.5	1.0
40	8QAM	1	1	2208	2197	2207	2207	2207	23.0	2.5
40	25QAM	1	1	1838	1831	1831	1831	1831	21.0	4.5
Channel										
Frequency (MHz)										
30	QPSK	1	1	2442	2452	2453	2453	2453	25.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1	2442	2450	2454	2454	2454	25.0	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1	2441	2454	2455	2455	2455	25.0	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1	2442	2450	2454	2454	2454	25.0	0.0
Channel										
Frequency (MHz)										
5	QPSK	1	1	2451	2451	2450	2450	2450	25.0	0.0



n38 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq. (MHz)	Power Line Ch. / Freq. (MHz)	Power Line Ch. / Freq. (MHz)	Time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	22.65	22.70	22.74			
40	PV2 BPSK	1	53	22.64	22.69	22.73	24.0	0.0	
40	PV2 BPSK	1	104	22.64	22.69	22.73			
40	PV2 BPSK	50	0	22.18	22.19	22.21	23.5	0.5	
40	PV2 BPSK	50	28	22.59	22.60	22.61	24.0	0.0	
40	PV2 BPSK	50	56	22.58	22.59	22.61			
40	PV2 BPSK	100	0	22.25	22.17	22.11	23.5	0.5	
40	QPSK	1	1	22.67	22.74	22.71			
40	QPSK	1	53	22.65	22.64	22.62	24.0	0.0	
40	QPSK	1	104	22.61	22.43	22.53			
40	QPSK	50	0	21.72	21.82	21.82	23.0	1.0	
40	QPSK	50	28	22.60	22.61	22.62	24.0	0.0	
40	QPSK	50	56	22.51	22.50	22.36	23.0	1.0	
40	QPSK	100	0	21.55	21.55	21.54			
40	16QAM	1	1	21.55	21.55	21.55	23.5	1.0	
40	16QAM	1	1	20.29	20.25	20.34	21.5	2.5	
40	256QAM	1	1	18.12	18.11	18.31	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.61	22.62	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.63	22.61	22.68	24.0	0.0	

n41 PC3 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq. (MHz)	Power Line Ch. / Freq. (MHz)	Power Line Ch. / Freq. (MHz)	Time-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	22.71	22.62	22.82			
100	PV2 BPSK	1	137	22.78	22.82	22.82	24.0	0.0	
100	PV2 BPSK	1	271	22.81	22.72	22.75			
100	PV2 BPSK	136	0	22.19	22.21	22.31	23.5	0.5	
100	PV2 BPSK	136	68	22.71	22.60	22.82	24.0	0.0	
100	PV2 BPSK	136	136	22.64	22.56	22.56			
100	PV2 BPSK	270	0	22.43	22.33	22.31	23.5	0.5	
100	QPSK	1	1	22.73	22.82	22.80			
100	QPSK	1	137	22.68	22.61	22.82	24.0	0.0	
100	QPSK	1	271	22.76	22.73	22.82			
100	QPSK	136	0	21.82	21.86	21.73	23.0	1.0	
100	QPSK	136	68	22.85	22.81	22.81	24.0	0.0	
100	QPSK	136	136	21.85	21.78	21.82	23.0	1.0	
100	QPSK	270	0	21.75	21.66	21.65			
100	16QAM	1	1	21.65	21.75	21.70	23.5	1.0	
100	16QAM	1	1	20.39	20.37	20.34	21.5	2.5	
100	256QAM	1	1	18.38	18.21	18.30	19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.61	22.62	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.70	22.81	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.72	22.77	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.81	22.82	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.88	22.67	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.71	22.62	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.71	22.73	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.69	22.78	22.73	24.0	0.0	



n7 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	P12-BPSK	1	1	20.13	20.41	20.14			
50	P12-BPSK	1	136	20.11	20.37	20.06	21.5	0.0	
50	P12-BPSK	1	268	20.34	20.28	20.26			
50	P12-BPSK	136	0	20.11	20.28	20.23	21.5	0.0	
50	P12-BPSK	136	68	20.16	20.27	20.27	21.5	0.0	
50	P12-BPSK	136	135	20.31	20.27	20.27			
50	P12-BPSK	270	0	20.20	20.45	20.26	21.5	0.0	
50	QPSK	1	1	20.33	20.40	20.27			
50	QPSK	1	135	20.25	20.31	20.11	21.5	0.0	
50	QPSK	1	268	20.30	20.20	20.24			
50	QPSK	135	0	19.43	19.56	19.32	20.5	1.0	
50	QPSK	135	68	20.34	20.30	20.22	21.5	0.0	
50	QPSK	135	135	19.32	19.30	19.16	20.5	1.0	
50	QPSK	270	0	19.36	19.30	19.30			
50	16QAM	1	1	20.33	20.33	20.07	21.5	0.0	
50	16QAM	1	1	19.44	19.34	19.23	20.5	1.0	
50	16QAM	1	1	17.43	17.41	17.33	19.5	3.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.35	20.37	20.28	21.5	0.0	
50	QPSK	1	1	20.35	20.37	20.28	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.37	20.10	21.5	0.0	
50	QPSK	1	1	20.32	20.37	20.10	21.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.24	20.42	20.13	21.5	0.0	
Channel									
Frequency (MHz)									
20	P12-BPSK	1	1	20.12	20.34	20.28	21.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.13	20.44	20.12	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.11	20.32	20.24	21.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.24	20.30	20.26	21.5	0.0	

n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12-BPSK	1	1	21.90	21.62	21.80			
40	P12-BPSK	1	108	23.71	23.70	23.89	24.0	0.0	
40	P12-BPSK	1	214	23.87	23.77	23.73			
40	P12-BPSK	108	0	23.13	23.11	23.18	23.5	0.5	
40	P12-BPSK	108	54	23.75	23.60	23.73	24.0	0.0	
40	P12-BPSK	108	108	23.58	23.56	23.42	23.5	0.5	
40	P12-BPSK	216	0	23.15	23.15	23.30			
40	QPSK	1	1	23.87	23.85	23.70			
40	QPSK	1	108	23.78	23.81	23.82	24.0	0.0	
40	QPSK	1	214	23.82	23.78	23.78			
40	QPSK	108	0	22.88	22.88	22.84	23.0	1.0	
40	QPSK	108	54	23.58	23.70	23.77	24.0	0.0	
40	QPSK	108	108	22.87	22.80	22.86	23.0	1.0	
40	QPSK	216	0	22.54	22.72	22.60			
40	16QAM	1	1	22.30	22.35	22.42	23.0	1.0	
40	16QAM	1	1	21.08	21.61	21.61	21.5	2.5	
40	16QAM	1	1	18.04	18.61	18.70	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.80	23.73	23.94	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.81	23.78	23.86	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.80	23.73	23.58	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.58	23.71	23.61	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.87	23.84	23.88	24.0	0.0	



n38 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)				5190.02	5190	5190.98				
40	PV2-BPSK	1	1	18.12	18.22	18.32				
40	PV2-BPSK	1	53	18.81	18.91	19.01	20.5	0.0		
40	PV2-BPSK	1	104	18.88	18.98	19.01				
40	PV2-BPSK	50	0	18.82	18.91	18.96	20.5	0.0		
40	PV2-BPSK	50	28	18.96	19.01	19.01	20.5	0.0		
40	PV2-BPSK	50	56	18.97	19.01	19.01				
40	PV2-BPSK	100	0	18.78	18.81	18.77	20.5	0.0		
40	QPSK	1	1	18.99	19.02	18.94				
40	QPSK	1	53	18.76	18.81	18.80	20.5	0.0		
40	QPSK	1	104	18.84	18.81	18.77				
40	QPSK	50	0	18.79	18.81	18.88	20.5	0.0		
40	QPSK	50	28	18.97	19.01	18.88	20.5	0.0		
40	QPSK	50	56	18.88	19.01	18.92	20.5	0.0		
40	QPSK	100	0	18.84	18.81	18.81				
40	16QAM	1	1	18.79	18.81	18.86	20.5	0.0		
40	16QAM	1	1	18.80	18.84	18.85	20.5	0.0		
40	256QAM	1	1	17.44	17.81	17.40	19.0	1.5		
Channel										
Frequency (MHz)				5190.02	5190.00	5190.98	Turn-up limit (dB)	MFR (dB)		
30	QPSK	1	1	18.18	18.18	18.18	20.5	0.0		
Channel										
Frequency (MHz)				5180.00	5180.00	5200.00	Turn-up limit (dB)	MFR (dB)		
30	QPSK	1	1	18.00	18.22	18.30	20.5	0.0		

n41 PC3 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)				2048.01	2048.30	2048				
100	PV2-BPSK	1	1	18.21	18.22	18.18				
100	PV2-BPSK	1	137	18.28	18.21	18.22	20.5	0.0		
100	PV2-BPSK	1	271	18.14	18.24	18.27				
100	PV2-BPSK	136	0	18.09	18.21	18.25	20.5	0.0		
100	PV2-BPSK	136	66	18.26	18.21	18.13	20.5	0.0		
100	PV2-BPSK	136	136	18.18	18.24	18.18				
100	PV2-BPSK	270	0	18.12	18.21	18.17	20.5	0.0		
100	QPSK	1	1	18.28	18.30	18.30				
100	QPSK	1	137	18.11	18.21	18.26	20.5	0.0		
100	QPSK	1	271	18.22	18.30	18.30				
100	QPSK	136	0	18.18	18.32	18.26	20.5	0.0		
100	QPSK	136	66	18.12	18.25	18.28	20.5	0.0		
100	QPSK	136	136	18.27	18.26	18.26	20.5	0.0		
100	QPSK	270	0	18.16	18.26	18.18				
100	16QAM	1	1	18.24	18.34	18.18	20.5	0.0		
100	16QAM	1	1	18.07	18.28	18.12	20.5	0.0		
100	256QAM	1	1	17.88	17.81	17.88	19.0	1.5		
Channel										
Frequency (MHz)				5180.00	5180.00	5200.00	Turn-up limit (dB)	MFR (dB)		
30	QPSK	1	1	18.23	18.23	18.31	20.5	0.0		
Channel										
Frequency (MHz)				5192.04	5189.98	5200.00	Turn-up limit (dB)	MFR (dB)		
30	QPSK	1	1	18.22	18.20	18.15	20.5	0.0		
Channel										
Frequency (MHz)				5180.00	5189.98	5200.00	Turn-up limit (dB)	MFR (dB)		
70	QPSK	1	1	18.22	18.32	18.30	20.5	0.0		
Channel										
Frequency (MHz)				5190.00	5189.98	5199.98	Turn-up limit (dB)	MFR (dB)		
60	QPSK	1	1	18.22	18.22	18.23	20.5	0.0		
Channel										
Frequency (MHz)				2048.01	2048.30	2048.00	Turn-up limit (dB)	MFR (dB)		
50	QPSK	1	1	18.17	18.17	18.11	20.5	0.0		
Channel										
Frequency (MHz)				2048.01	2048.30	2048.00	Turn-up limit (dB)	MFR (dB)		
40	QPSK	1	1	18.17	18.20	18.15	20.5	0.0		
Channel										
Frequency (MHz)				2048.01	2048.30	2048.00	Turn-up limit (dB)	MFR (dB)		
30	QPSK	1	1	18.17	18.17	18.11	20.5	0.0		
Channel										
Frequency (MHz)				2048.01	2048.30	2048.00	Turn-up limit (dB)	MFR (dB)		
20	QPSK	1	1	18.24	18.24	18.24	20.5	0.0		



n7 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (mtd)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	23.75	23.80	23.80			
50	PI2 BPSK	1	136	23.77	23.80	23.75	24.5	0.0	
50	PI2 BPSK	1	268	23.87	23.81	23.89			
50	PI2 BPSK	136	0	23.92	23.92	23.91	24.0	0.5	
50	PI2 BPSK	136	68	23.87	23.80	23.74	24.5	0.0	
50	PI2 BPSK	136	135	23.86	23.86	23.81			
50	PI2 BPSK	270	0	23.19	23.15	23.21	24.0	0.5	
50	QPSK	1	1	23.80	23.82	23.81			
50	QPSK	1	136	23.72	23.70	23.80	24.5	0.0	
50	QPSK	1	268	23.87	23.74	23.84			
50	QPSK	136	0	22.75	22.86	22.73	23.5	1.0	
50	QPSK	136	68	23.78	23.81	23.75	24.5	0.0	
50	QPSK	136	135	22.79	22.80	22.77			
50	QPSK	270	0	22.74	22.74	22.74	23.5	1.0	
50	16QAM	1	1	22.95	22.95	22.95	23.5	1.0	
50	16QAM	1	1	21.69	21.14	21.89	22.0	2.5	
50	256QAM	1	1	18.32	18.31	18.20	20.0	4.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.70	23.70	23.83	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.72	23.81	23.75	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.70	23.87	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.08	23.84	23.82	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.12	23.87	23.77	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.23	23.70	23.70	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.80	23.84	23.71	24.5	0.0	

n66 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Take-up (mtd)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.31	22.40	22.37			
40	PI2 BPSK	1	108	22.32	22.37	22.18	23.5	0.0	
40	PI2 BPSK	1	214	22.30	22.37	22.08			
40	PI2 BPSK	108	0	22.19	22.51	22.26	23.5	0.0	
40	PI2 BPSK	108	54	22.23	22.37	22.24	23.5	0.0	
40	PI2 BPSK	108	108	22.26	22.26	22.10			
40	PI2 BPSK	216	0	22.18	22.15	22.05	23.5	0.0	
40	QPSK	1	1	22.38	22.60	22.27			
40	QPSK	1	108	22.22	22.43	22.32	23.5	0.0	
40	QPSK	1	214	22.31	22.57	22.24			
40	QPSK	108	0	22.18	22.57	22.14	23.5	0.0	
40	QPSK	108	54	22.37	22.59	22.16	23.5	0.0	
40	QPSK	108	108	22.31	22.38	22.08			
40	QPSK	216	0	22.17	22.49	22.06	23.5	0.0	
40	16QAM	1	1	22.34	22.15	22.14	23.5	0.0	
40	16QAM	1	1	20.75	20.73	20.83	22.0	1.5	
40	256QAM	1	1	18.58	18.71	18.93	20.0	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.34	22.43	22.18	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.30	22.37	22.25	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.24	22.40	22.10	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.33	22.66	22.10	23.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.38	22.40	22.13	23.5	0.0	



n38 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	23.97	24.00	24.03			
40	PV2 BPSK	1	53	23.85	24.00	24.01	24.5	0.0	
40	PV2 BPSK	1	104	23.91	23.91	23.91			
40	PV2 BPSK	50	0	23.90	23.91	23.90	24.0	0.5	
40	PV2 BPSK	50	28	23.93	24.01	24.01	24.5	0.0	
40	PV2 BPSK	50	56	23.96	23.96	23.97			
40	PV2 BPSK	100	0	23.97	23.97	23.98	24.0	0.5	
40	QPSK	1	1	24.06	24.00	24.00			
40	QPSK	1	53	23.98	23.91	24.00	24.5	0.0	
40	QPSK	1	104	23.84	23.78	23.85			
40	QPSK	50	0	23.90	23.81	23.98	23.5	1.0	
40	QPSK	50	28	23.99	24.00	23.82	24.5	0.0	
40	QPSK	50	56	23.46	23.43	23.44			
40	QPSK	100	0	23.97	23.97	23.98	23.5	1.0	
40	16QAM	1	1	23.98	23.98	23.98			
40	16QAM	1	1	23.79	23.82	23.80	22.0	2.5	
40	16QAM	1	1	18.58	18.51	18.70	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.90	23.90	23.93	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.90	23.90	23.75	24.5	0.0	

n41 PC3 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	23.94	24.04	24.04			
100	PV2 BPSK	1	137	24.08	24.02	24.00	24.5	0.0	
100	PV2 BPSK	1	271	23.98	23.83	23.90			
100	PV2 BPSK	136	0	23.94	23.91	23.90	24.0	0.5	
100	PV2 BPSK	136	68	23.92	23.91	23.88	24.5	0.0	
100	PV2 BPSK	270	0	23.93	23.92	23.90			
100	QPSK	1	1	24.08	24.10	24.05			
100	QPSK	1	137	23.78	23.81	23.79	24.5	0.0	
100	QPSK	1	271	24.05	23.91	23.88			
100	QPSK	136	0	22.92	22.90	23.04	23.5	1.0	
100	QPSK	136	68	23.75	23.91	23.85	24.5	0.0	
100	QPSK	136	136	23.01	22.92	23.01			
100	QPSK	270	0	23.96	23.96	23.97			
100	16QAM	1	1	23.94	23.94	23.92	23.5	1.0	
100	16QAM	1	1	23.68	23.58	23.70	22.0	2.5	
100	16QAM	1	1	18.87	18.51	18.90	20.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.01	24.00	24.00	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.07	24.00	23.94	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.92	23.90	23.85	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.87	24.00	23.88	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.08	24.00	24.00	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.83	23.90	23.90	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.04	24.02	23.92	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.91	24.01	24.00	24.5	0.0	



Par270 n77 PC3 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-rx [ms] (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	15.54	15.68	15.72			
100	PI2-BPSK	1	1	15.81	15.95	15.94	17.5	0.0	
100	PI2-BPSK	1	271	15.88	15.71	15.54			
100	PI2-BPSK	136	0	15.51	15.65	15.81	17.5	0.0	
100	PI2-BPSK	136	66	15.54	15.63	15.74	17.5	0.0	
100	PI2-BPSK	136	136	15.51	15.66	15.82			
100	PI2-BPSK	270	0	15.59	15.58	15.57	17.5	0.0	
100	QPSK	1	1	15.73	15.73	15.87			
100	QPSK	1	137	15.64	15.71	15.50	17.5	0.0	
100	QPSK	1	271	15.52	15.55	15.65			
100	QPSK	136	0	15.80	15.61	15.54	17.5	0.0	
100	QPSK	136	69	15.58	15.60	15.55	17.5	0.0	
100	QPSK	136	136	15.62	15.54	15.55	17.5	0.0	
100	QPSK	270	0	15.56	15.56	15.66			
100	QPSK	1	1	15.53	15.53	15.58	17.5	0.0	
100	8QAM	1	1	15.60	15.64	15.58	17.5	0.0	
100	25QAM	1	1	15.53	15.61	15.50	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84968	85000	85034	Tx-to-rx [ms]	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84934	85000	85068	Tx-to-rx [ms]	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.54	15.73	15.84	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.58	15.64	15.59	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.69	15.65	15.54	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.68	15.63	15.58	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.72	15.63	15.64	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.73	15.60	15.45	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.74	15.62	15.52	17.5	0.0	

Part27Q n77 PC3 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-rx [ms] (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	15.67		85000			
100	PI2-BPSK	1	137	15.56			17.5	0.0	
100	PI2-BPSK	1	271	15.72					
100	PI2-BPSK	136	0	15.52			17.5	0.0	
100	PI2-BPSK	136	66	15.60			17.5	0.0	
100	PI2-BPSK	136	136	15.54					
100	PI2-BPSK	270	0	15.58			17.5	0.0	
100	QPSK	1	1	15.77					
100	QPSK	1	137	15.64			17.5	0.0	
100	QPSK	1	271	15.62					
100	QPSK	136	0	15.58			17.5	0.0	
100	QPSK	136	69	15.56			17.5	0.0	
100	QPSK	136	136	15.60			17.5	0.0	
100	QPSK	270	0	15.52			17.5	0.0	
100	8QAM	1	1	15.62			17.5	0.0	
100	25QAM	1	1	15.68			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83368	83334	83368	Tx-to-rx [ms]	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83388	83334	83400	Tx-to-rx [ms]	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.55	15.74	15.85	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.58	15.63	15.59	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.69	15.60	15.45	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.69	15.65	15.56	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.73	15.63	15.64	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.73	15.60	15.45	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.75	15.62	15.52	17.5	0.0	

Part270 n78 PC2 Ant9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-rx [ms] (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2-BPSK	1	1	15.48		85000			
100	PI2-BPSK	1	137	15.40			17.5	0.0	
100	PI2-BPSK	1	271	15.31					
100	PI2-BPSK	136	0	15.45			17.0	0.0	
100	PI2-BPSK	136	66	15.50			17.0	0.0	
100	PI2-BPSK	136	136	15.38					
100	PI2-BPSK	270	0	15.25			17.0	0.0	
100	PI2-BPSK	270	0	15.47			17.0	0.0	
100	QPSK	1	1	15.58					
100	QPSK	1	137	15.48			17.0	0.0	
100	QPSK	1	271	15.38					
100	QPSK	136	0	15.35			17.0	0.0	
100	QPSK	136	69	15.52			17.0	0.0	
100	QPSK	136	136	15.30			17.0	0.0	
100	QPSK	270	0	15.25			17.0	0.0	
100	8QAM	1	1	15.41			17.0	0.0	
100	25QAM	1	1	15.44			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84968	85000	85034	Tx-to-rx [ms]	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84934	85000	85068	Tx-to-rx [ms]	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.53	15.44	15.28	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.57	15.50	15.23	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.31	15.30	15.33	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.41	15.38	15.27	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.50	15.34	15.40	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.53	15.49	15.29	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.52	15.46	15.41	17.0	0.0	



Part27Q 78 PC2 Ant9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Frequency Limit (dBm)	MPR (dB)	
	Channel								
	Frequency (MHz)				3900.01				
100	PB4 BPSK	1	1		15.29				
100	PB4 BPSK	1	137		15.32			17.0	0.0
100	PB4 BPSK	1	271		15.21			17.0	0.0
100	PB4 BPSK	195	0		15.43				
100	PB4 BPSK	195	66		15.50			17.0	0.0
100	PB4 BPSK	195	198		15.27			17.0	0.0
100	PB4 BPSK	270	0		15.35			17.0	0.0
100	QPSK	1	1		15.53			17.0	0.0
100	QPSK	1	137		15.29				
100	QPSK	1	271		15.36			17.0	0.0
100	QPSK	195	0		15.15				
100	QPSK	195	66		15.21			17.0	0.0
100	QPSK	195	138		15.19			17.0	0.0
100	QPSK	270	0		15.27			17.0	0.0
100	16QAM	1	1		15.54			17.0	0.0
100	16QAM	1	1		15.52			17.0	0.0
100	256QAM	1	1		15.41			17.0	0.0
	Channel			835000	833334	835000	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835000	833334	835000			
50	QPSK	1	1		15.41	15.32	15.40	17.0	0.0
	Channel			835888	833334	834000	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835888	833334	834000			
80	QPSK	1	1		15.44	15.34	15.38	17.0	0.0
	Channel			835334	833334	834334	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835334	833334	834334			
70	QPSK	1	1		15.38	15.44	15.39	17.0	0.0
	Channel			835000	833334	834888	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835000	833334	834888			
60	QPSK	1	1		15.32	15.43	15.28	17.0	0.0
	Channel			835000	833334	835000	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835000	833334	835000			
50	QPSK	1	1		15.24	15.48	15.41	17.0	0.0
	Channel			835334	833334	835334	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835334	833334	835334			
40	QPSK	1	1		15.44	15.23	15.24	17.0	0.0
	Channel			835000	833334	835668	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835000	833334	835668			
30	QPSK	1	1		15.30	15.28	15.32	17.0	0.0
	Channel			835668	833334	836000	Frequency Limit (dBm)	MPR (dB)	
	Frequency (MHz)			835668	833334	836000			
20	QPSK	1	1		15.29	15.50	15.29	17.0	0.0



Par270 n77 PC3 An10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq.	Power High Ch. F/Freq.	Power High Ch. F/Freq.	Time-up (min)	MPR (dB)	MPR (dB)
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	2121	2128	2132			
100	PID-BPSK	1	1	2119	2110	2115		22.5	0.0
100	PID-BPSK	1	271	2117	2110	2037			
100	PID-BPSK	136	0	2110	2128	2030		22.5	0.0
100	PID-BPSK	136	66	2109	2127	2111		22.5	0.0
100	PID-BPSK	136	136	2107	2116	2118		22.5	0.0
100	PID-BPSK	276	0	2107	2115	2017			
100	QPSK	1	1	2124	2134	2118			
100	QPSK	1	137	2107	2124	2107		22.5	0.0
100	QPSK	1	271	2110	2118	2128			
100	QPSK	136	0	2118	2118	2114		22.5	0.0
100	QPSK	136	69	2115	2128	2110		22.5	0.0
100	QPSK	136	138	2110	2127	2115		22.5	0.0
100	QPSK	270	0	2124	2128	2118			
100	16QAM	1	1	2105	2112	2036		22.5	0.0
100	16QAM	1	1	2113	2110	2036		22.5	0.0
100	16QAM	1	1	1963	1962	1978		21.0	1.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	84968	85000	85034	Time-up (min)	MPR	MPR
Channel									
Frequency (MHz)									
80	QPSK	1	1	2124	2118	2114		22.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	2124	2118	2114		22.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	2104	2130	2038		22.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	2107	2117	2112		22.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	2118	2114	2109		22.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	2107	2123	2112		22.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	2112	2122	2118		22.5	0.0

Par270q n77 PC3 An10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq.	Power High Ch. F/Freq.	Power High Ch. F/Freq.	Time-up (min)	MPR (dB)	MPR (dB)
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	2113	2113	2113			
100	PID-BPSK	1	137	2110	2110	2110		22.5	0.0
100	PID-BPSK	1	271	2095	2095	2095			
100	PID-BPSK	136	0	2110	2110	2110		22.5	0.0
100	PID-BPSK	136	66	2108	2108	2108		22.5	0.0
100	PID-BPSK	136	138	2110	2110	2110		22.5	0.0
100	PID-BPSK	276	0	2110	2110	2110		22.5	0.0
100	QPSK	1	1	2120	2120	2120			
100	QPSK	1	137	2113	2113	2113		22.5	0.0
100	QPSK	1	271	2118	2118	2118			
100	QPSK	136	0	2118	2118	2118		22.5	0.0
100	QPSK	136	69	2116	2116	2116		22.5	0.0
100	QPSK	136	138	2099	2099	2099		22.5	0.0
100	QPSK	270	0	2113	2113	2113		22.5	0.0
100	16QAM	1	1	2109	2109	2109		22.5	0.0
100	16QAM	1	1	1963	1963	1963		21.0	1.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	83360	83334	83368	Time-up (min)	MPR	MPR
Channel									
Frequency (MHz)									
80	QPSK	1	1	2123	2117	2117		22.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	2109	2105	2105		22.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	2103	2104	2105		22.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	2113	2110	2117		22.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	2122	2120	2111		22.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	2105	2107	2107		22.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	2115	2098	2108		22.5	0.0

Par270o n78 PC2 An10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq.	Power High Ch. F/Freq.	Power High Ch. F/Freq.	Time-up (min)	MPR (dB)	MPR (dB)
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	3760	3760	3760			
100	PID-BPSK	1	137	3760	3760	3760		23.0	0.0
100	PID-BPSK	1	271	3760	3760	3760			
100	PID-BPSK	136	0	3760	3760	3760		23.0	0.0
100	PID-BPSK	136	66	3760	3760	3760		23.0	0.0
100	PID-BPSK	136	138	3760	3760	3760		23.0	0.0
100	PID-BPSK	276	0	3760	3760	3760		23.0	0.0
100	QPSK	1	1	3760	3760	3760			
100	QPSK	1	137	3760	3760	3760		23.0	0.0
100	QPSK	1	271	3760	3760	3760			
100	QPSK	136	0	3760	3760	3760		23.0	0.0
100	QPSK	136	69	3760	3760	3760		23.0	0.0
100	QPSK	136	138	3760	3760	3760		23.0	0.0
100	QPSK	270	0	3760	3760	3760		23.0	0.0
100	16QAM	1	1	3760	3760	3760		23.0	0.0
100	16QAM	1	1	3760	3760	3760		23.0	0.0
100	16QAM	1	1	3760	3760	3760		23.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	84968	85000	85034	Time-up (min)	MPR	MPR
Channel									
Frequency (MHz)									
80	QPSK	1	1	2228	2228	2231		23.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	2207	2234	2214		23.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	2228	2210	2223		23.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	2217	2200	2210		23.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	2218	2214	2210		23.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	2223	2217	2210		23.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	2225	2211	2215		23.0	0.0



Part27Q 78 PC2 An10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
	Channel				83334		
	Frequency (MHz)				3500.01		
100	PB4 BPSK	1	1		22.02		23.0
100	PB4 BPSK	1	137		22.10		23.0
100	PB4 BPSK	1	271		22.17		23.0
100	PB4 BPSK	135	0		21.99		23.0
100	PB4 BPSK	135	66		21.90		23.0
100	PB4 BPSK	135	138		22.01		23.0
100	PB4 BPSK	270	0		22.20		23.0
100	QPSK	1	1		22.24		23.0
100	QPSK	1	137		22.03		23.0
100	QPSK	1	271		22.16		23.0
100	QPSK	135	0		21.99		23.0
100	QPSK	135	66		22.21		23.0
100	QPSK	135	138		22.11		23.0
100	QPSK	270	0		22.20		23.0
100	16QAM	1	1		22.21		23.0
100	16QAM	1	1		22.22		23.0
100	16QAM	1	1		21.81		23.5
	Channel			83500	83334	83368	Tune-up limit (dB)
	Frequency (MHz)			3476	3500.01	3524.02	MPR (dB)
50	QPSK	1	1	22.15	22.03	22.20	23.0
	Channel			83588	83334	83400	Tune-up limit (dB)
	Frequency (MHz)			3490.00	3500.01	3510	MPR (dB)
80	QPSK	1	1	22.05	21.86	22.00	23.0
	Channel			83534	83334	83434	Tune-up limit (dB)
	Frequency (MHz)			3485.01	3500.01	3515.01	MPR (dB)
70	QPSK	1	1	22.15	22.02	22.08	23.0
	Channel			83500	83004	83496	Tune-up limit (dB)
	Frequency (MHz)			3490	3500.01	3500.02	MPR (dB)
60	QPSK	1	1	21.83	21.01	22.18	23.0
	Channel			83555	83334	83555	Tune-up limit (dB)
	Frequency (MHz)			3475.02	3500.01	3525	MPR (dB)
50	QPSK	1	1	22.01	22.00	22.02	23.0
	Channel			83534	83334	83534	Tune-up limit (dB)
	Frequency (MHz)			3470.01	3500.01	3530.01	MPR (dB)
40	QPSK	1	1	21.58	21.83	22.00	23.0
	Channel			83500	83334	83496	Tune-up limit (dB)
	Frequency (MHz)			3465	3500.01	3535.02	MPR (dB)
30	QPSK	1	1	22.12	22.02	22.10	23.0
	Channel			83668	83334	83600	Tune-up limit (dB)
	Frequency (MHz)			3461.00	3500.01	3528	MPR (dB)
20	QPSK	1	1	22.12	21.85	22.18	23.0



Part20 n77 PC3 An11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq.	Power High Ch. F/Freq.	Power High Ch. F/Freq.	Tx-to-rx (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	21.13	22.18	22.18			
100	PID-BPSK	1	137	22.08	21.98	21.99	23.5	0.0	
100	PID-BPSK	1	271	21.98	21.78	21.53			
100	PID-BPSK	136	0	21.58	21.52	21.60	23.0	0.5	
100	PID-BPSK	136	66	21.88	22.01	21.94	23.5	0.0	
100	PID-BPSK	136	138	21.58	21.58	21.72			
100	PID-BPSK	226	0	21.43	21.45	21.48	23.0	0.5	
100	QPSK	1	1	22.08	22.21	22.19			
100	QPSK	1	137	22.05	22.20	22.02	23.5	0.0	
100	QPSK	1	271	21.74	21.78	21.78			
100	QPSK	136	0	21.07	20.95	20.90	22.5	1.0	
100	QPSK	136	69	21.64	21.70	21.54	23.5	0.0	
100	QPSK	136	138	21.13	20.90	20.93	22.5	1.0	
100	QPSK	226	0	21.16	21.20	20.96	22.5	1.0	
100	16QAM	1	1	21.18	21.05	20.90	22.5	1.0	
100	16QAM	1	1	19.98	19.51	19.58	21.0	2.5	
100	16QAM	1	1	17.78	17.51	17.68	19.0	4.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.04	22.04	22.01	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.98	22.00	22.08	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.94	22.00	22.20	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.92	22.12	22.11	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.91	22.07	22.16	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.03	22.02	22.14	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.08	22.01	22.10	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.93	22.17	22.19	23.5	0.0	

Part20 n77 PC3 An11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq.	Power High Ch. F/Freq.	Power High Ch. F/Freq.	Tx-to-rx (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	22.02		22.02			
100	PID-BPSK	1	137	21.80		21.80	23.5	0.0	
100	PID-BPSK	1	271	21.60		21.60			
100	PID-BPSK	136	0	21.21		21.21	23.0	0.5	
100	PID-BPSK	136	66	21.50		21.50	23.5	0.0	
100	PID-BPSK	136	138	21.29		21.29	23.5	0.5	
100	PID-BPSK	226	0	21.38		21.38	23.5	0.5	
100	QPSK	1	1	22.17		22.17			
100	QPSK	1	137	22.04		22.04	23.5	0.0	
100	QPSK	1	271	22.00		22.00			
100	QPSK	136	0	22.06		22.06	23.5	0.0	
100	QPSK	136	69	22.10		22.10	23.5	0.0	
100	QPSK	136	138	22.02		22.02	23.0	1.0	
100	QPSK	226	0	22.25		22.25	23.0	1.0	
100	16QAM	1	1	20.84		20.84	22.5	1.0	
100	16QAM	1	1	19.20		19.20	22.5	2.5	
100	16QAM	1	1	17.47		17.47	20.5	4.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.94	22.00	22.16	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.94	22.00	22.00	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.00	22.10	22.12	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.02	22.14	22.01	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.98	22.07	22.10	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.95	22.02	22.11	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.04	22.14	22.09	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.89	22.12	22.18	23.5	0.0	

Part20 n78 PC3 An11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq.	Power High Ch. F/Freq.	Power High Ch. F/Freq.	Tx-to-rx (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	21.43		21.43			
100	PID-BPSK	1	137	21.54		21.54	23.5	0.0	
100	PID-BPSK	1	271	21.62		21.62			
100	PID-BPSK	136	0	21.28		21.28	23.5	0.0	
100	PID-BPSK	136	66	21.60		21.60	23.5	0.0	
100	PID-BPSK	136	138	21.48		21.48	23.5	0.0	
100	PID-BPSK	226	0	21.45		21.45	23.5	0.0	
100	QPSK	1	1	22.02		22.02			
100	QPSK	1	137	21.86		21.86	23.5	0.0	
100	QPSK	1	271	21.92		21.92			
100	QPSK	136	0	21.94		21.94	23.5	0.0	
100	QPSK	136	69	21.84		21.84	23.5	0.0	
100	QPSK	136	138	21.82		21.82	23.5	0.0	
100	QPSK	226	0	21.68		21.68	23.5	0.0	
100	16QAM	1	1	21.91		21.91	23.5	0.0	
100	16QAM	1	1	20.75		20.75	22.5	1.0	
100	16QAM	1	1	18.88		18.88	20.5	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.92	21.90	22.00	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.78	21.80	22.08	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.91	21.91	21.92	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.77	21.88	21.91	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.93	21.80	21.94	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.88	21.80	21.81	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.89	21.90	21.92	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.72	21.80	21.91	23.5	0.0	



Part270 n78 PC2 An11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	P162 BPSK	1	1	21.79	21.80	21.81	25.0
100	P162 BPSK	1	137	21.88	21.89	21.90	25.0
100	P162 BPSK	1	271	21.97	21.98	21.99	24.5
100	P162 BPSK	135	69	22.06	22.07	22.08	25.0
100	P162 BPSK	135	159	22.15	22.16	22.17	25.0
100	P162 BPSK	135	249	22.24	22.25	22.26	25.0
100	QPSK	1	1	22.33	22.34	22.35	25.0
100	QPSK	1	137	22.42	22.43	22.44	25.0
100	QPSK	1	271	22.51	22.52	22.53	24.5
100	QPSK	135	69	22.60	22.61	22.62	25.0
100	QPSK	135	159	22.69	22.70	22.71	25.0
100	QPSK	135	249	22.78	22.79	22.80	25.0
100	QPSK	430	0	22.87	22.88	22.89	24.5
100	16QAM	1	1	22.96	22.97	22.98	24.0
100	16QAM	1	1	23.05	23.06	23.07	24.5
100	256QAM	1	1	23.14	23.15	23.16	23.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.23	23.24	23.25	25.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.32	23.33	23.34	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.41	23.42	23.43	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.50	23.51	23.52	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.59	23.60	23.61	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.68	23.69	23.70	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.77	23.78	23.79	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.86	23.87	23.88	25.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.95	23.96	23.97	25.0

Part27Q 78 PC3 An11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	P162 BPSK	1	1	21.78	21.79	21.80	23.5
100	P162 BPSK	1	137	21.87	21.88	21.89	23.5
100	P162 BPSK	1	271	21.96	21.97	21.98	23.5
100	P162 BPSK	135	69	22.05	22.06	22.07	23.5
100	P162 BPSK	135	159	22.14	22.15	22.16	23.5
100	P162 BPSK	135	249	22.23	22.24	22.25	23.5
100	QPSK	1	1	22.32	22.33	22.34	23.5
100	QPSK	1	137	22.41	22.42	22.43	23.5
100	QPSK	1	271	22.50	22.51	22.52	23.5
100	QPSK	135	69	22.59	22.60	22.61	23.5
100	QPSK	135	159	22.68	22.69	22.70	23.5
100	QPSK	135	249	22.77	22.78	22.79	23.5
100	QPSK	430	0	22.86	22.87	22.88	23.5
100	16QAM	1	1	22.95	22.96	22.97	23.5
100	16QAM	1	1	23.04	23.05	23.06	23.5
100	256QAM	1	1	23.13	23.14	23.15	23.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.22	23.23	23.24	23.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.31	23.32	23.33	23.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.40	23.41	23.42	23.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.49	23.50	23.51	23.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.58	23.59	23.60	23.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.67	23.68	23.69	23.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.76	23.77	23.78	23.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.85	23.86	23.87	23.5

Part27Q 78 PC2 An11							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	P162 BPSK	1	1	21.87	21.88	21.89	25.0
100	P162 BPSK	1	137	21.96	21.97	21.98	25.0
100	P162 BPSK	1	271	22.05	22.06	22.07	24.5
100	P162 BPSK	135	69	22.14	22.15	22.16	25.0
100	P162 BPSK	135	159	22.23	22.24	22.25	25.0
100	P162 BPSK	135	249	22.32	22.33	22.34	25.0
100	QPSK	1	1	22.41	22.42	22.43	25.0
100	QPSK	1	137	22.50	22.51	22.52	25.0
100	QPSK	1	271	22.59	22.60	22.61	24.5
100	QPSK	135	69	22.68	22.69	22.70	25.0
100	QPSK	135	159	22.77	22.78	22.79	25.0
100	QPSK	135	249	22.86	22.87	22.88	25.0
100	QPSK	430	0	22.95	22.96	22.97	24.5
100	16QAM	1	1	23.04	23.05	23.06	24.0
100	16QAM	1	1	23.13	23.14	23.15	24.5
100	256QAM	1	1	23.22	23.23	23.24	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.31	23.32	23.33	25.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.40	23.41	23.42	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.49	23.50	23.51	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.58	23.59	23.60	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.67	23.68	23.69	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.76	23.77	23.78	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.85	23.86	23.87	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.94	23.95	23.96	25.0



n5 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F [Frac]	Power Midd. Ch. F [Frac]	Power High Ch. F [Frac]	MPR [dB]
Channel							
	Frequency (MHz)			168600	167900	169000	
20	Pi4 BPSK	1	1	2448	2452	2453	25.5
20	Pi4 BPSK	1	33	2437	2441	2424	25.5
20	Pi4 BPSK	1	104	2426	2440	2433	25.5
20	Pi4 BPSK	50	0	2417	2408	2409	25.0
20	Pi4 BPSK	50	28	2413	2399	2396	25.5
20	Pi4 BPSK	50	56	2421	2434	2429	25.0
20	Pi4 BPSK	100	0	2385	2383	2383	25.0
20	QPSK	1	1	2446	2446	2446	25.5
20	QPSK	1	33	2437	2450	2446	25.5
20	QPSK	1	104	2446	2438	2436	25.5
20	QPSK	50	0	2340	2328	2332	24.5
20	QPSK	50	28	2327	2321	2328	24.5
20	QPSK	50	56	2325	2326	2325	24.5
20	HSQAM	1	1	2350	2343	2350	24.5
20	HSQAM	1	1	2321	2313	2321	24.5
20	ZSQAAM	1	1	2012	2004	2016	21.0
Channel							
	Frequency (MHz)			168300	167900	168300	
15	QPSK	1	1	2440	2460	2447	25.5
Channel							
	Frequency (MHz)			168600	167900	168600	
10	QPSK	1	1	2446	2450	2454	25.5
Channel							
	Frequency (MHz)			168300	167900	168300	
5	QPSK	1	1	2442	2467	2440	25.5

DSIS							
n7 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F [Frac]	Power Midd. Ch. F [Frac]	Power High Ch. F [Frac]	MPR [dB]
Channel							
	Frequency (MHz)			506000	507000	506000	
50	Pi4 BPSK	1	1	2212	2214	2200	24.0
50	Pi4 BPSK	1	135	2207	2213	2202	24.0
50	Pi4 BPSK	1	266	2201	2211	2217	24.0
50	Pi4 BPSK	136	0	2187	2173	2184	23.5
50	Pi4 BPSK	136	68	2208	2223	2208	24.0
50	Pi4 BPSK	136	135	2184	2179	2186	23.5
50	Pi4 BPSK	270	0	2168	2178	2184	23.5
50	QPSK	1	1	2216	2226	2220	24.0
50	QPSK	1	135	2205	2215	2202	24.0
50	QPSK	1	268	2203	2212	2205	24.0
50	QPSK	136	0	2187	2178	2181	23.0
50	QPSK	136	68	2207	2217	2201	24.0
50	QPSK	136	135	2081	2091	2080	23.0
50	QPSK	270	0	2090	2100	2096	23.0
50	HSQAM	1	1	2114	2120	2116	25.0
50	HSQAM	1	1	1876	1869	1870	21.0
50	ZSQAAM	1	1	1788	1776	1782	18.5
Channel							
	Frequency (MHz)			504000	507000	510000	
40	QPSK	1	1	2184	2211	2186	24.0
Channel							
	Frequency (MHz)			506000	507000	510000	
30	QPSK	1	1	2186	2208	2197	24.0
Channel							
	Frequency (MHz)			506000	507000	510000	
25	QPSK	1	1	2183	2213	2184	24.0
Channel							
	Frequency (MHz)			506000	507000	510000	
30	QPSK	1	1	2183	2203	2191	24.0
Channel							
	Frequency (MHz)			501600	507000	510000	
15	QPSK	1	1	2117	2200	2106	24.0
Channel							
	Frequency (MHz)			501600	507000	510000	
10	QPSK	1	1	2216	2204	2204	24.0
Channel							
	Frequency (MHz)			506000	507000	510000	
5	QPSK	1	1	2207	2200	2208	24.0

n66 Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F [Frac]	Power Midd. Ch. F [Frac]	Power High Ch. F [Frac]	MPR [dB]
Channel							
	Frequency (MHz)			346000	346000	346000	
40	Pi4 BPSK	1	1	2053	2053	2056	22.5
40	Pi4 BPSK	1	108	2051	2052	2056	22.5
40	Pi4 BPSK	1	214	2055	2070	2052	22.5
40	Pi4 BPSK	108	0	2049	2070	2042	22.5
40	Pi4 BPSK	108	54	2070	2072	2059	22.5
40	Pi4 BPSK	108	108	2049	2059	2052	22.5
40	Pi4 BPSK	216	0	2049	2064	2054	22.5
40	QPSK	1	1	2056	2076	2056	22.5
40	QPSK	1	108	2051	2070	2059	22.5
40	QPSK	1	214	2058	2064	2055	22.5
40	QPSK	108	0	2053	2054	2053	22.5
40	QPSK	108	54	2057	2070	2059	22.5
40	QPSK	108	108	2058	2067	2060	22.5
40	QPSK	216	0	2052	2059	2054	22.5
40	HSQAM	1	1	2059	2059	2066	22.5
40	HSQAM	1	1	2011	2016	2016	21.0
40	ZSQAAM	1	1	1836	1830	1830	20.0
Channel							
	Frequency (MHz)			345000	346000	350000	
30	QPSK	1	1	2052	2056	2050	22.5
Channel							
	Frequency (MHz)			346000	346000	346000	
20	QPSK	1	1	2058	2051	2059	22.5
Channel							
	Frequency (MHz)			345000	346000	346000	
15	QPSK	1	1	2055	2049	2055	22.5
Channel							
	Frequency (MHz)			345000	346000	346000	
10	QPSK	1	1	2054	2050	2054	22.5
Channel							
	Frequency (MHz)			342600	346000	346000	
5	QPSK	1	1	2054	2050	2047	22.5



n38 DS15 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5160.02	5160	5160.98			
40	PID-BPSK	1	1	2152	2153	2154			
40	PID-BPSK	1	93	2118	2150	2137	23.0	0.0	
40	PID-BPSK	1	104	2137	2150	2129			
40	PID-BPSK	90	0	2137	2150	2140	23.0	0.0	
40	PID-BPSK	90	28	2139	2157	2144	23.0	0.0	
40	PID-BPSK	90	96	2156	2144	2131			
40	PID-BPSK	100	0	2130	2157	2134	23.0	0.0	
40	QPSK	1	1	2139	2153	2144			
40	QPSK	1	93	2137	2142	2130	23.0	0.0	
40	QPSK	1	104	2125	2130	2132			
40	QPSK	90	0	2031	2110	2034	22.5	0.5	
40	QPSK	90	99	2127	2140	2122	23.0	0.0	
40	QPSK	90	96	2030	2160	2034	22.5	0.5	
40	QPSK	100	0	2036	2036	2036			
40	ISDM	1	1	2039	2110	2103	22.5	0.5	
40	ISDM	1	1	1945	1940	1935	21.0	2.0	
40	ISDM	1	1	1751	1768	1747	19.0	4.0	
Channel									
	Frequency [MHz]			5170.02	5169.90	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5180.00	5180.00	5200.00	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5180.00	5180.00	5200.00	Time-up [ms] (dB)	MPR (dB)	
30	QPSK	1	1	2120	2152	2144	23.0	0.0	

n41 PC3 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			2460.01	2460.30	2460			
100	PID-BPSK	1	1	2210	2210	2211			
100	PID-BPSK	1	137	2159	2163	2173	23.5	0.0	
100	PID-BPSK	1	271	2156	2171	2165			
100	PID-BPSK	136	0	2131	2123	2132	23.0	0.5	
100	PID-BPSK	136	66	2151	2150	2166	23.5	0.0	
100	PID-BPSK	136	136	2161	2149	2140			
100	PID-BPSK	270	0	2124	2115	2131	23.0	0.5	
100	QPSK	1	1	2209	2213	2183			
100	QPSK	1	137	2162	2143	2181	23.5	0.0	
100	QPSK	1	271	2152	2143	2166			
100	QPSK	136	0	2079	2086	2039	22.5	1.0	
100	QPSK	136	69	2205	2203	2191	22.5	0.0	
100	QPSK	136	136	2051	2061	2036	22.5	1.0	
100	QPSK	270	0	2156	2146	2142			
100	ISDM	1	1	2033	2034	2037	22.5	1.0	
100	ISDM	1	1	1943	1941	1949	21.0	2.5	
100	ISDM	1	1	1738	1733	1740	19.0	4.5	
Channel									
	Frequency [MHz]			5180.00	5180.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5190.00	5190.90	5219.98	Time-up [ms] (dB)	MPR (dB)	
90	QPSK	1	1	2204	2205	2179	23.5	0.0	
Channel									
	Frequency [MHz]			5170.00	5180.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5180.00	5180.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
80	QPSK	1	1	2196	2203	2185	23.5	0.0	
Channel									
	Frequency [MHz]			5180.00	5180.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5190.00	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
70	QPSK	1	1	2203	2208	2182	23.5	0.0	
Channel									
	Frequency [MHz]			5190.00	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5200.00	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
60	QPSK	1	1	2198	2203	2183	23.5	0.0	
Channel									
	Frequency [MHz]			5200.00	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5210.01	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
50	QPSK	1	1	2194	2202	2183	23.5	0.0	
Channel									
	Frequency [MHz]			5200.00	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5210.01	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
40	QPSK	1	1	2189	2202	2180	23.5	0.0	
Channel									
	Frequency [MHz]			5200.00	5180.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5210.01	5190.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
30	QPSK	1	1	2201	2201	2184	23.5	0.0	
Channel									
	Frequency [MHz]			5190.00	5180.98	5209.98	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			5200.00	5190.98	5219.98	Time-up [ms] (dB)	MPR (dB)	
20	QPSK	1	1	2205	2205	2180	23.5	0.0	

Par270 n77 PC3 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq]	Power Middle Ch. [Freq]	Power High Ch. [Freq]	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			3900	3900	3900			
100	PID-BPSK	1	1	2134	2143	2137			
100	PID-BPSK	1	137	2130	2165	2153	23.5	0.0	
100	PID-BPSK	1	271	2158	2152	2166			
100	PID-BPSK	136	0	2142	2128	2151	23.0	0.5	
100	PID-BPSK	136	66	2176	2167	2174	23.5	0.0	
100	PID-BPSK	136	136	2166	2170	2160			
100	PID-BPSK	270	0	2130	2133	2138	23.0	0.5	
100	QPSK	1	1	2162	2168	2166			
100	QPSK	1	137	2166	2176	2170	23.5	0.0	
100	QPSK	1	271	2162	2167	2168			
100	QPSK	136	0	2167	2166	2170	22.5	1.0	
100	QPSK	136	69	2161	2180	2179	22.5	0.0	
100	QPSK	136	136	2034	2036	2070	22.5	1.0	
100	QPSK	270	0	2036	2036	2037			
100	ISDM	1	1	2033	2034	2037	22.5	1.0	
100	ISDM	1	1	1948	1935	1985	21.0	2.5	
100	ISDM	1	1	1767	1768	1730	19.0	4.5	
Channel									
	Frequency [MHz]			8496.88	8500.00	8623.34	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.02	8600.00	8613.00	Time-up [ms] (dB)	MPR (dB)	
90	QPSK	1	1	2184	2188	2152	23.5	0.0	
Channel									
	Frequency [MHz]			8493.34	8500.00	8626.68	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.02	8600.00	8613.00	Time-up [ms] (dB)	MPR (dB)	
80	QPSK	1	1	2181	2179	2183	23.5	0.0	
Channel									
	Frequency [MHz]			8490.00	8500.00	8630.00	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.02	8600.00	8613.00	Time-up [ms] (dB)	MPR (dB)	
70	QPSK	1	1	2181	2174	2157	23.5	0.0	
Channel									
	Frequency [MHz]			8496.88	8600.00	8623.34	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.02	8600.00	8613.00	Time-up [ms] (dB)	MPR (dB)	
60	QPSK	1	1	2182	2178	2186	23.5	0.0	
Channel									
	Frequency [MHz]			8743.01	8600.00	8613.02	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.01	8600.00	8613.02	Time-up [ms] (dB)	MPR (dB)	
50	QPSK	1	1	2188	2181	2160	23.5	0.0	
Channel									
	Frequency [MHz]			8490.00	8500.00	8630.00	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.02	8600.00	8613.01	Time-up [ms] (dB)	MPR (dB)	
40	QPSK	1	1	2185	2180	2180	23.5	0.0	
Channel									
	Frequency [MHz]			8496.88	8600.00	8613.34	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.02	8600.00	8613.01	Time-up [ms] (dB)	MPR (dB)	
30	QPSK	1	1	2172	2184	2160	23.5	0.0	
Channel									
	Frequency [MHz]			8493.34	8600.00	8626.68	Time-up [ms] (dB)	MPR (dB)	
Channel									
	Frequency [MHz]			8743.01	8600.00	8613.02	Time-up [ms] (dB)	MPR (dB)	
20	QPSK	1	1	2184	2176	2167	23.5	0.0	



Part27Q n77 PC3 Ant0									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	Pi/4 BPSK	1	1	21.69					
100	Pi/4 BPSK	1	137	21.70			23.5	0.0	
100	Pi/4 BPSK	1	271	21.69					
100	Pi/4 BPSK	135	0	21.68					
100	Pi/4 BPSK	135	69	21.31			23.5	0.0	
100	Pi/4 BPSK	135	135	21.64					
100	Pi/4 BPSK	270	0	21.52			23.0	0.5	
100	QPSK	1	1	22.04					
100	QPSK	1	137	22.00			23.5	0.0	
100	QPSK	1	271	21.81					
100	QPSK	135	0	21.78					
100	QPSK	135	66	22.00			23.5	0.0	
100	QPSK	135	138	20.99					
100	QPSK	270	0	21.4			22.5	1.0	
100	16QAM	1	1	21.04			25.5	1.0	
100	16QAM	1	1	19.59			24.0	2.5	
100	256QAM	1	1	17.88			19.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83339	83334	83388	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.75	21.81	21.87	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.70	21.72	21.87	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.63	21.89	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83300	83324	83400	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83305	83335	83500	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3500.91	3520	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3475.02	3500.91	3520	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.70	21.69	21.68	23.5	0.0	

Part270 n78 PC3 Ant0									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	Pi/4 BPSK	1	1	21.84					
100	Pi/4 BPSK	1	137	21.08			23.5	0.0	
100	Pi/4 BPSK	1	271	21.64					
100	Pi/4 BPSK	135	0	21.91			23.5	0.0	
100	Pi/4 BPSK	135	69	21.79			23.5	0.0	
100	Pi/4 BPSK	135	135	21.67					
100	Pi/4 BPSK	270	0	21.74			23.0	0.0	
100	QPSK	1	1	22.04					
100	QPSK	1	137	22.00			23.5	0.0	
100	QPSK	1	271	21.78					
100	QPSK	135	0	21.80			23.5	0.0	
100	QPSK	135	66	21.79			23.5	0.0	
100	QPSK	135	138	21.53					
100	QPSK	270	0	21.4			23.5	0.0	
100	16QAM	1	1	21.05			25.5	1.0	
100	16QAM	1	1	21.09			24.5	1.0	
100	256QAM	1	1	19.81			19.0	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83334	83334	83334	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.62	21.58	21.64	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.55	21.64	21.80	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.60	21.60	21.60	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83300	83334	83334	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83335	83335	83335	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3475.02	3475.02	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3475.02	3475.02	3475.02	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.69	21.64	21.64	23.5	0.0	

Part270 n78 PC2 Ant0									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	Pi/4 BPSK	1	1	22.39					
100	Pi/4 BPSK	1	137	21.62			25.0	0.0	
100	Pi/4 BPSK	1	271	22.62					
100	Pi/4 BPSK	135	0	22.07			24.5	0.5	
100	Pi/4 BPSK	135	69	22.24			25.0	0.0	
100	Pi/4 BPSK	135	135	22.44			24.5	0.0	
100	Pi/4 BPSK	270	0	21.69			24.5	0.0	
100	QPSK	1	1	23.46			25.0	0.0	
100	QPSK	1	137	23.14					
100	QPSK	1	271	22.45			24.5	1.0	
100	QPSK	135	0	22.33			25.0	0.0	
100	QPSK	135	66	23.05			24.5	1.0	
100	QPSK	135	138	21.89			25.0	0.0	
100	QPSK	270	0	22.3			24.5	1.0	
100	16QAM	1	1	21.00			25.0	1.0	
100	16QAM	1	1	20.77			24.5	2.5	
100	256QAM	1	1	19.88			19.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83334	83334	83334	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.32	23.30	23.34	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.26	23.24	23.18	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.29	23.18	23.22	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83335	83335	83335	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.30	23.24	23.29	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3475.02	3475.02	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3475.02	3475.02	3475.02	Tune-up Int. (dBm)	MFR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.22	23.19	23.20	25.0	0.0	



Part27Q 78 PC3 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3560.01							
100	PB2 BPSK	1	1	21.81			
100	PB2 BPSK	1	137	21.87			23.5
100	PB2 BPSK	1	273	21.93			
100	PB2 BPSK	135	5	21.88			
100	PB2 BPSK	135	69	21.94			23.5
100	PB2 BPSK	135	135	21.99			
100	PB2 BPSK	270	5	21.95			23.0
100	QPSK	1	1	22.00			
100	QPSK	1	137	21.94			23.5
100	QPSK	1	273	21.83			
100	QPSK	135	5	21.88			23.5
100	QPSK	135	69	21.83			
100	QPSK	135	138	21.88			
100	QPSK	270	5	21.84			23.5
100	MSKAM	1	1	21.90			25.0
100	MSKAM	1	1	21.93			24.0
100	MSKAM	1	1	21.97			23.0
Channel							
Frequency (MHz)							
83300							
90	QPSK	1	1	21.75	21.77	21.88	23.5
Channel							
Frequency (MHz)							
83388							
80	QPSK	1	1	21.70	21.73	21.70	23.5
Channel							
Frequency (MHz)							
83234							
70	QPSK	1	1	21.73	21.88	21.75	23.5
Channel							
Frequency (MHz)							
83000							
60	QPSK	1	1	21.70	21.77	21.70	23.5
Channel							
Frequency (MHz)							
3475.02							
50	QPSK	1	1	21.88	21.88	21.88	23.5
Channel							
Frequency (MHz)							
3470.01							
40	QPSK	1	1	21.68	21.68	21.67	23.5
Channel							
Frequency (MHz)							
3490							
30	QPSK	1	1	21.71	21.72	21.63	23.5
Channel							
Frequency (MHz)							
3492							
20	QPSK	1	1	21.67	21.66	21.66	23.5

Part27Q 78 PC2 Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
3560.01							
100	PB2 BPSK	1	1	22.21			
100	PB2 BPSK	1	137	22.27			25.0
100	PB2 BPSK	1	273	22.34			
100	PB2 BPSK	135	5	22.25			24.5
100	PB2 BPSK	135	69	22.30			25.0
100	PB2 BPSK	135	135	22.35			
100	PB2 BPSK	270	5	22.27			24.5
100	QPSK	1	1	22.30			25.0
100	QPSK	1	137	22.23			
100	QPSK	1	273	22.27			24.5
100	QPSK	135	5	22.26			25.0
100	QPSK	135	69	22.30			
100	QPSK	135	138	22.30			24.5
100	QPSK	270	5	22.24			24.5
100	MSKAM	1	1	21.75			25.0
100	MSKAM	1	1	21.88			22.5
100	MSKAM	1	1	21.93			23.5
Channel							
Frequency (MHz)							
83300							
90	QPSK	1	1	23.10	23.25	23.20	25.0
Channel							
Frequency (MHz)							
83388							
80	QPSK	1	1	23.17	23.25	23.29	25.0
Channel							
Frequency (MHz)							
83234							
70	QPSK	1	1	23.20	23.29	23.28	25.0
Channel							
Frequency (MHz)							
83000							
60	QPSK	1	1	23.19	23.28	23.19	25.0
Channel							
Frequency (MHz)							
3475.02							
50	QPSK	1	1	23.22	23.21	23.21	25.0
Channel							
Frequency (MHz)							
3470.01							
40	QPSK	1	1	23.27	23.27	23.29	23.0
Channel							
Frequency (MHz)							
3490							
30	QPSK	1	1	23.14	23.28	23.29	23.0
Channel							
Frequency (MHz)							
3492							
20	QPSK	1	1	23.12	23.29	23.17	23.0



n5 Ant1								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MFR (dB)
Channel				16500	16700	16900		
Frequency (MHz)				164	168	172		
20	PI2 BPSK	1	1	20.03	20.03	19.92		
20	PI2 BPSK	1	93	20.05	20.05	19.94	20.5	0.0
20	PI2 BPSK	1	104	20.03	20	19.94		
20	PI2 BPSK	50	0	19.97	19.93	19.81	20.5	0.0
20	PI2 BPSK	50	28	20.00	20.04	19.81	20.5	0.0
20	PI2 BPSK	50	56	19.96	20.04	19.85		
20	PI2 BPSK	100	0	20.12	20.04	20.04	20.5	0.0
20	QPSK	1	1	20.12	20.11	20.03		
20	QPSK	1	93	20.05	20.12	19.95	20.5	0.0
20	QPSK	1	104	20	19.98	19.98		
20	QPSK	50	0	19.94	20.15	19.88	20.5	0.0
20	QPSK	50	28	20.02	20.17	19.93	20.5	0.0
20	QPSK	50	56	19.98	20.07	20.02		
20	QPSK	100	0	19.95	20.05	19.90	20.5	0.0
20	16QAM	1	1	19.99	20.04	19.93	20.5	0.0
20	16QAM	1	1	19.99	20.04	19.92	20.5	0.0
20	16QAM	1	1	20.14	20.04	19.98	20.5	0.0
Channel				16950	17200	16950	Time-up limit	MFR
Frequency (MHz)				169.5	172	169.5	20.5	0.0
15	QPSK	1	1	20.00	20.11	19.95	20.5	0.0
Channel				16980	17200	16980	Time-up limit	MFR
Frequency (MHz)				169.8	172	169.8	20.5	0.0
10	QPSK	1	1	20.05	20.15	19.94	20.5	0.0
Channel				16500	16700	16500	Time-up limit	MFR
Frequency (MHz)				165	168	165	20.5	0.0
5	QPSK	1	1	19.96	20.05	19.95	20.5	0.0



n7 Ant3									
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)									
50	P12 BPSK	1	1	19.14	19.20	19.30			
50	P12 BPSK	1	136	19.18	19.20	19.37	21.0	0.0	
50	P12 BPSK	1	268	19.23	19.60	19.43			
50	P12 BPSK	136	0	19.34	19.61	19.20	21.0	0.0	
50	P12 BPSK	136	68	19.34	19.61	19.33	21.0	0.0	
50	P12 BPSK	136	135	19.16	19.27	19.28			
50	P12 BPSK	270	0	19.18	19.65	19.41	21.0	0.0	
50	QPSK	1	1	19.35	19.60	19.42			
50	QPSK	1	135	19.32	19.20	19.31	21.0	0.0	
50	QPSK	1	268	19.20	19.74	19.38			
50	QPSK	135	0	19.24	19.66	19.21	21.0	0.0	
50	QPSK	136	68	19.23	19.20	19.23	21.0	0.0	
50	QPSK	136	135	19.15	19.20	19.42	21.0	0.0	
50	QPSK	270	0	19.36	19.20	19.44			
50	16QAM	1	1	19.20	19.65	19.31	21.0	0.0	
50	16QAM	1	1	19.28	19.60	19.27	21.0	0.0	
50	256QAM	1	1	17.78	17.77	17.81	19.5	1.5	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.00	20.25	20.00			
40	QPSK	1	1	19.32	19.30	19.30	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.22	19.20	19.28	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.27	19.20	19.30	21.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	19.24	19.20	19.38	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.28	19.20	19.33	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.15	19.60	19.43	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.37	19.60	19.21	21.0	0.0	

n66 Ant3									
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)									
40	P12 BPSK	1	1	22.50	22.20	22.81			
40	P12 BPSK	1	108	22.45	22.20	22.58	23.5	0.0	
40	P12 BPSK	1	214	22.37	22.61	22.52			
40	P12 BPSK	108	0	22.53	22.60	22.37	23.5	0.0	
40	P12 BPSK	108	54	22.41	22.50	22.82	23.5	0.0	
40	P12 BPSK	108	108	22.44	22.60	22.67			
40	P12 BPSK	216	0	22.35	22.20	22.51	23.5	0.0	
40	QPSK	1	1	22.58	22.20	22.88			
40	QPSK	1	108	22.57	22.20	22.87	23.5	0.0	
40	QPSK	1	214	22.47	22.61	22.65			
40	QPSK	108	0	22.43	22.20	22.52	23.5	0.0	
40	QPSK	108	54	22.42	22.60	22.65	23.5	0.0	
40	QPSK	108	108	22.44	22.61	22.81	23.5	0.0	
40	QPSK	216	0	22.35	22.20	22.20	23.5	0.0	
40	16QAM	1	1	22.45	22.20	22.48	23.5	0.0	
40	16QAM	1	1	22.08	21.91	22.07	23.0	0.5	
40	256QAM	1	1	18.88	18.83	18.75	21.0	2.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.47	22.55	22.63	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.54	22.71	22.66	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.45	22.54	22.51	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.45	22.20	22.50	23.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.53	22.68	22.81	23.5	0.0	



n38 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PV2 BPSK	1	1	19.55	19.57	19.59	21.0	0.0	
40	PV2 BPSK	1	53	19.53	19.55	19.57	21.0	0.0	
40	PV2 BPSK	1	104	19.50	19.52	19.54	21.0	0.0	
40	PV2 BPSK	50	0	19.55	19.57	19.59	21.0	0.0	
40	PV2 BPSK	50	28	19.55	19.57	19.59	21.0	0.0	
40	PV2 BPSK	50	56	19.51	19.53	19.55	21.0	0.0	
40	PV2 BPSK	100	0	19.58	19.61	19.64	21.0	0.0	
40	QPSK	1	1	19.67	19.71	19.81	21.0	0.0	
40	QPSK	1	53	19.65	19.64	19.54	21.0	0.0	
40	QPSK	1	104	19.69	19.63	19.48	21.0	0.0	
40	QPSK	50	0	19.55	19.64	19.81	21.0	0.0	
40	QPSK	50	28	19.53	19.55	19.59	21.0	0.0	
40	QPSK	50	56	19.47	19.60	19.52	21.0	0.0	
40	QPSK	100	0	19.56	19.56	19.56	21.0	0.0	
40	16QAM	1	1	19.52	19.52	19.54	21.0	0.0	
40	16QAM	1	1	19.54	19.54	19.57	21.0	0.0	
40	256QAM	1	1	19.54	19.51	19.37	19.5	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.61	19.61	19.60	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.50	19.52	19.48	21.0	0.0	

n41 PC3 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PV2 BPSK	1	1	19.61	19.61	19.53	21.0	0.0	
100	PV2 BPSK	1	137	19.55	19.52	19.68	21.0	0.0	
100	PV2 BPSK	1	271	19.51	19.70	19.87	21.0	0.0	
100	PV2 BPSK	136	0	19.67	19.61	19.60	21.0	0.0	
100	PV2 BPSK	136	66	19.70	19.61	19.60	21.0	0.0	
100	PV2 BPSK	270	0	19.52	19.55	19.58	21.0	0.0	
100	QPSK	1	1	19.69	19.62	19.74	21.0	0.0	
100	QPSK	1	137	19.60	19.74	19.57	21.0	0.0	
100	QPSK	1	271	19.47	19.78	19.73	21.0	0.0	
100	QPSK	136	0	19.50	19.61	19.53	21.0	0.0	
100	QPSK	136	66	19.60	19.60	19.63	21.0	0.0	
100	QPSK	136	136	19.59	19.59	19.52	21.0	0.0	
100	QPSK	270	0	19.56	19.56	19.71	21.0	0.0	
100	16QAM	1	1	19.54	19.55	19.55	21.0	0.0	
100	16QAM	1	1	19.58	19.61	19.80	21.0	0.0	
100	256QAM	1	1	19.18	19.21	19.37	19.5	1.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.71	19.70	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.61	19.64	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.58	19.60	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.60	19.60	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.61	19.72	19.53	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.52	19.62	19.66	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.57	19.62	19.60	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.71	19.68	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.55	19.63	19.65	21.0	0.0	



n7 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	17.81	17.81	17.79			
50	P12 BPSK	1	136	17.88	17.88	17.84	19.0	0.0	
50	P12 BPSK	1	268	17.89	17.89	17.84			
50	P12 BPSK	136	0	17.88	17.88	17.81	19.0	0.0	
50	P12 BPSK	136	68	17.81	17.82	17.89	19.0	0.0	
50	P12 BPSK	136	135	17.86	17.86	17.85			
50	P12 BPSK	270	0	17.81	17.81	17.73	19.0	0.0	
50	QPSK	1	1	17.89	17.87	17.90			
50	QPSK	1	135	17.88	17.88	17.76	19.0	0.0	
50	QPSK	1	268	17.80	17.82	17.81			
50	QPSK	135	0	17.88	17.88	17.85	19.0	1.0	
50	QPSK	136	68	17.71	17.80	17.90	19.0	0.0	
50	QPSK	136	135	17.84	17.80	17.71	19.0	1.0	
50	QPSK	270	0	17.86	17.89	17.74			
50	16QAM	1	1	17.76	17.85	17.76	19.0	0.0	
50	16QAM	1	1	17.78	17.80	17.82	19.0	0.0	
50	16QAM	1	1	17.87	17.83	17.40	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.80	17.80	17.91	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.88	17.81	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.82	17.89	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	17.79	17.82	17.89	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.77	17.82	17.89	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.76	17.80	17.80	19.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.81	17.84	17.74	19.0	0.0	

n66 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch. / Freq.	Power Block Ch. / Freq.	Power High Ch. / Freq.	Take-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.37	19.40	19.39			
40	P12 BPSK	1	108	19.58	19.57	19.37	20.0	0.0	
40	P12 BPSK	1	214	19.47	19.60	19.53			
40	P12 BPSK	108	0	19.58	19.53	19.50	20.0	0.0	
40	P12 BPSK	108	54	19.48	19.70	19.45	20.0	0.0	
40	P12 BPSK	108	108	19.46	19.71	19.47			
40	P12 BPSK	216	0	19.44	19.71	19.59			
40	QPSK	1	1	19.65	19.91	19.59			
40	QPSK	1	108	19.45	19.84	19.48	20.0	0.0	
40	QPSK	1	214	19.46	19.70	19.46			
40	QPSK	108	0	19.45	19.86	19.53	20.0	0.0	
40	QPSK	108	54	19.45	19.80	19.56	20.0	0.0	
40	QPSK	108	108	19.69	19.70	19.53	20.0	0.0	
40	QPSK	216	0	19.44	19.69	19.55			
40	16QAM	1	1	19.57	19.85	19.46	20.0	0.0	
40	16QAM	1	1	19.67	19.68	19.49	20.0	0.0	
40	16QAM	1	1	19.15	19.31	19.10	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.60	19.40	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.65	19.81	19.53	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.58	19.91	19.58	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.54	19.83	19.59	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.61	19.44	19.42	20.0	0.0	



n38 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PQ2BPSK	1	1	16.72	17.12	17.27			
40	PQ2BPSK	1	53	16.98	17.17	16.97	18.5	0.0	
40	PQ2BPSK	1	104	16.80	17.03	17.02			
40	PQ2BPSK	50	0	16.88	17.09	17.08	18.5	0.0	
40	PQ2BPSK	50	28	16.92	17.12	17.05	18.5	0.0	
40	PQ2BPSK	50	56	16.85	17.15	17.06	18.5	0.0	
40	QPSK	1	1	17.00	17.17	17.13			
40	QPSK	1	53	16.94	17.00	17.13	18.5	0.0	
40	QPSK	1	104	16.95	16.90	17.00			
40	QPSK	50	0	16.91	17.05	17.02	18.5	0.0	
40	QPSK	50	28	16.95	17.11	16.93	18.5	0.0	
40	QPSK	50	56	16.92	17.07	17.09	18.5	0.0	
40	QPSK	100	0	16.94	17.00	17.00			
40	16QAM	1	1	16.92	16.90	16.96	18.5	0.0	
40	16QAM	1	1	16.84	16.90	17.11	18.5	0.0	
40	256QAM	1	1	16.88	17.11	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.00	17.00	17.00	Time-up limit (dB)	MFR	
30	QPSK	1	1	17.04	17.13	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.97	17.12	17.13	18.5	0.0	

n41 PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PQ2BPSK	1	1	17.07	16.80	17.13			
100	PQ2BPSK	1	137	17.10	17.14	16.97	18.5	0.0	
100	PQ2BPSK	1	271	16.97	17.10	17.11			
100	PQ2BPSK	136	0	16.99	17.12	17.00	18.5	0.0	
100	PQ2BPSK	136	66	17.15	17.00	16.93	18.5	0.0	
100	PQ2BPSK	136	136	17.05	17.05	17.00	18.5	0.0	
100	QPSK	1	1	17.16	17.10	17.15			
100	QPSK	1	137	16.90	17.11	17.00	18.5	0.0	
100	QPSK	1	271	17.11	17.12	17.14			
100	QPSK	136	0	17.10	17.04	17.06	18.5	0.0	
100	QPSK	136	66	17.07	17.11	17.05	18.5	0.0	
100	QPSK	136	136	17.10	17.04	17.10	18.5	0.0	
100	QPSK	270	0	16.96	17.00	16.97			
100	16QAM	1	1	16.98	17.01	17.00	18.5	0.0	
100	16QAM	1	1	17.14	17.01	17.04	18.5	0.0	
100	256QAM	1	1	17.05	17.03	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.03	16.92	16.93	Time-up limit (dB)	MFR	
80	QPSK	1	1	17.00	17.00	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.03	16.97	16.93	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.03	17.14	17.17	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.08	17.11	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.10	17.04	17.12	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.97	17.00	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.14	17.17	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.03	17.00	17.15	18.5	0.0	



n7 Ant5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
50										
50	P12 BPSK	1	1	15.71	15.84	15.71				
50	P12 BPSK	1	136	15.79	15.50	15.84	16.5	0.0		
50	P12 BPSK	1	268	15.69	15.52	15.84				
50	P12 BPSK	136	0	15.68	15.86	15.77	16.5	0.0		
50	P12 BPSK	136	68	15.61	15.60	15.79	16.5	0.0		
50	P12 BPSK	136	135	15.74	15.56	15.72				
50	P12 BPSK	270	0	15.72	15.55	15.86	16.5	0.0		
50	QPSK	1	1	15.80	15.82	15.87				
50	QPSK	1	135	15.62	15.81	15.74	16.5	0.0		
50	QPSK	1	268	15.86	15.86	15.71				
50	QPSK	135	0	15.83	15.85	15.72	16.5	1.0		
50	QPSK	136	68	15.71	15.91	15.74	16.5	0.0		
50	QPSK	136	135	15.59	15.87	15.86				
50	QPSK	270	0	15.66	15.66	15.67	16.5	1.0		
50	16QAM	1	1	15.79	15.58	15.82	16.5	0.0		
50	16QAM	1	1	15.68	15.60	15.75	16.5	0.0		
50	256QAM	1	1	15.81	15.81	15.81	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
51000										
Tune-up limit (dBm)										
MFR (dB)										
40	QPSK	1	1	15.73	15.82	15.84	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
51100										
Tune-up limit (dBm)										
MFR (dB)										
30	QPSK	1	1	15.71	15.84	15.78	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
51500										
Tune-up limit (dBm)										
MFR (dB)										
25	QPSK	1	1	15.82	15.92	15.85	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
51600										
Tune-up limit (dBm)										
MFR (dB)										
20	P12 BPSK	1	1	15.71	15.82	15.74	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
52000										
Tune-up limit (dBm)										
MFR (dB)										
15	QPSK	1	1	15.78	15.84	15.88	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
51800										
Tune-up limit (dBm)										
MFR (dB)										
10	QPSK	1	1	15.74	15.81	15.79	16.5	0.0		
Channel										
Frequency (MHz)										
50500										
50700										
51600										
Tune-up limit (dBm)										
MFR (dB)										
5	QPSK	1	1	15.83	15.92	15.86	16.5	0.0		

n66 Ant5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
1700										
1740										
1760										
40	P12 BPSK	1	1	15.76	15.84	15.72				
40	P12 BPSK	1	108	15.83	15.91	15.79	17.0	0.0		
40	P12 BPSK	1	214	15.72	15.86	15.84				
40	P12 BPSK	108	0	15.81	15.81	15.73	17.0	0.0		
40	P12 BPSK	108	54	15.84	15.84	15.81	17.0	0.0		
40	P12 BPSK	108	108	15.76	15.76	15.86				
40	P12 BPSK	216	0	15.85	15.85	15.79	17.0	0.0		
40	QPSK	1	1	15.92	15.96	15.84				
40	QPSK	1	108	15.75	15.71	15.86	17.0	0.0		
40	QPSK	1	214	15.79	15.79	15.72				
40	QPSK	108	0	15.81	15.82	15.84	17.0	0.0		
40	QPSK	108	54	15.87	15.91	15.86	17.0	0.0		
40	QPSK	108	108	15.91	15.79	15.79	17.0	0.0		
40	QPSK	216	0	15.86	15.86	15.86				
40	16QAM	1	1	15.80	15.84	15.83	17.0	0.0		
40	16QAM	1	1	15.89	15.75	15.72	17.0	0.0		
40	256QAM	1	1	15.78	15.81	15.79	17.0	0.0		
Channel										
Frequency (MHz)										
34000										
34900										
35000										
Tune-up limit (dBm)										
MFR (dB)										
30	QPSK	1	1	15.82	15.75	15.79	17.0	0.0		
Channel										
Frequency (MHz)										
34000										
34900										
35600										
Tune-up limit (dBm)										
MFR (dB)										
30	QPSK	1	1	15.84	15.95	15.78	17.0	0.0		
Channel										
Frequency (MHz)										
34000										
34900										
35400										
Tune-up limit (dBm)										
MFR (dB)										
15	QPSK	1	1	15.71	15.91	15.82	17.0	0.0		
Channel										
Frequency (MHz)										
34000										
34900										
35900										
Tune-up limit (dBm)										
MFR (dB)										
10	QPSK	1	1	15.92	15.96	15.81	17.0	0.0		
Channel										
Frequency (MHz)										
34000										
34900										
35500										
Tune-up limit (dBm)										
MFR (dB)										
5	QPSK	1	1	15.72	15.96	15.80	17.0	0.0		



n38 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
				5490.02	5490	5490.98			
40	P12 BPSK	1	1	18.76	18.80	17.92			
40	P12 BPSK	1	53	17.88	18.02	17.79	18.5	0.0	
40	P12 BPSK	1	104	17.98	17.87	17.72			
40	P12 BPSK	50	0	17.99	18.11	17.88	18.5	0.0	
40	P12 BPSK	50	28	17.93	18.12	17.84	18.5	0.0	
40	P12 BPSK	50	56	18.02	18.14	17.84			
40	P12 BPSK	100	0	17.98	18.05	17.78	18.5	0.0	
40	QPSK	1	1	18.04	18.17	17.87			
40	QPSK	1	53	17.97	18.21	17.82	18.5	0.0	
40	QPSK	1	104	18.05	18.10	17.83			
40	QPSK	50	0	17.89	18.45	17.79	18.5	0.0	
40	QPSK	50	28	17.90	18.30	17.85	18.5	0.0	
40	QPSK	50	56	17.88	18.50	17.74			
40	QPSK	100	0	17.96	18.00	17.66	18.5	0.0	
40	16QAM	1	1	17.94	18.07	17.70	18.5	0.0	
40	16QAM	1	1	17.85	18.04	17.73	18.5	0.0	
40	256QAM	1	1	17.83	17.88	17.88	18.5	0.0	
Channel									
Frequency (MHz)									
				5190.02	5190.00	5190.98	Time-up limit (dBm)	MFR (dB)	
				2490.01	2490	2490.99	0.0		
30	QPSK	1	1	17.91	18.13	17.85	18.5	0.0	
Channel									
Frequency (MHz)									
				5180.00	5180.00	5180.00	Time-up limit (dBm)	MFR (dB)	
				2480	2480	2480	0.0		
30	QPSK	1	1	18.03	18.03	17.82	18.5	0.0	

n41 PC3 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
				2048.01	2042.50	2048			
100	P12 BPSK	1	1	17.52	18.40	17.92			
100	P12 BPSK	1	137	17.97	18.06	17.89	18.5	0.0	
100	P12 BPSK	1	271	17.78	18.11	17.75			
100	P12 BPSK	136	0	17.88	18.23	17.74	18.5	0.0	
100	P12 BPSK	136	68	17.94	18.02	17.86	18.5	0.0	
100	P12 BPSK	136	136	18.00	18.10	17.85			
100	P12 BPSK	270	0	18.00	18.05	17.85	18.5	0.0	
100	QPSK	1	1	18.00	18.10	17.85			
100	QPSK	1	137	17.85	18.21	17.80	18.5	0.0	
100	QPSK	1	271	17.84	18.06	17.86			
100	QPSK	136	0	17.96	18.42	17.86	18.5	0.0	
100	QPSK	136	68	17.92	18.30	17.75	18.5	0.0	
100	QPSK	136	136	17.89	18.44	17.80			
100	QPSK	270	0	18.01	18.01	17.82	18.5	0.0	
100	16QAM	1	1	17.98	18.07	17.76	18.5	0.0	
100	16QAM	1	1	17.85	18.00	17.80	18.5	0.0	
100	256QAM	1	1	17.97	18.03	17.79	18.5	0.0	
Channel									
Frequency (MHz)									
				5280.00	5189.98	5280.98	Time-up limit (dBm)	MFR (dB)	
				2480	2480.00	2480.98	0.0		
30	QPSK	1	1	17.83	18.00	17.97	18.5	0.0	
Channel									
Frequency (MHz)									
				5372.54	5189.98	5372.98	Time-up limit (dBm)	MFR (dB)	
				2480.02	2480.00	2480.98	0.0		
30	QPSK	1	1	17.99	17.86	17.84	18.5	0.0	
Channel									
Frequency (MHz)									
				5302.02	5189.98	5310.00	Time-up limit (dBm)	MFR (dB)	
				2511.01	2480.00	2480	0.0		
30	QPSK	1	1	17.87	18.12	17.77	18.5	0.0	
Channel									
Frequency (MHz)									
				5600.00	5189.98	5619.98	Time-up limit (dBm)	MFR (dB)	
				2498	2480.00	2480.98	0.0		
60	QPSK	1	1	17.92	18.11	17.76	18.5	0.0	
Channel									
Frequency (MHz)									
				2042.02	2042.50	2044.99	Time-up limit (dBm)	MFR (dB)	
				5180.00	5180.00	5180.00	0.0		
50	QPSK	1	1	17.90	18.11	17.85	18.5	0.0	
Channel									
Frequency (MHz)									
				2048.01	2042.50	2048	Time-up limit (dBm)	MFR (dB)	
				5180.00	5180.00	5180.00	0.0		
40	QPSK	1	1	17.92	18.00	17.82	18.5	0.0	
Channel									
Frequency (MHz)									
				5000.00	5189.98	5189.98	Time-up limit (dBm)	MFR (dB)	
				2470	2480.00	2474.98	0.0		
30	QPSK	1	1	17.81	18.20	17.87	18.5	0.0	
Channel									
Frequency (MHz)									
				5024.04	5189.98	5189.98	Time-up limit (dBm)	MFR (dB)	
				2490.02	2042.50	2493.98	0.0		
20	QPSK	1	1	17.92	17.88	17.86	18.5	0.0	



Par270 n77 PC3 Ant9											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-rx (dB)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PI2-BPSK	1	1	13.16	13.52	13.91					
100	PI2-BPSK	1	1	13.81	13.80	13.82	15.5	0.0			
100	PI2-BPSK	136	0	13.54	13.54	13.81	15.5	0.0			
100	PI2-BPSK	136	66	13.59	13.69	13.86	15.5	0.0			
100	PI2-BPSK	136	136	13.54	13.64	13.56					
100	PI2-BPSK	276	0	13.52	13.54	13.81	15.5	0.0			
100	QPSK	1	1	13.68	13.70	13.81					
100	QPSK	1	137	13.55	13.61	13.54					
100	QPSK	1	271	13.52	13.54	13.57	15.5	0.0			
100	QPSK	136	0	13.52	13.52	13.80	15.5	0.0			
100	QPSK	136	69	13.66	13.60	13.80	15.5	0.0			
100	QPSK	136	138	13.52	13.61	13.82	15.5	0.0			
100	QPSK	270	0	13.66	13.66	13.82					
100	16QAM	1	1	13.51	13.52	13.56	15.5	0.0			
100	16QAM	1	1	13.51	13.62	13.82	15.5	0.0			
100	256QAM	1	1	13.51	13.61	13.86	15.5	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	64968	65000	65034	Tx-to-rx (dB)	MPR			
90	QPSK	1	1	13.53	13.88	13.55	15.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	64934	65000	65068	Tx-to-rx (dB)	MPR			
80	QPSK	1	1	13.59	13.67	13.55	15.5	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	64900	65000	65000	Tx-to-rx (dB)	MPR			
70	QPSK	1	1	13.62	13.62	13.84	15.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	64868	65000	65034	Tx-to-rx (dB)	MPR			
60	QPSK	1	1	13.53	13.63	13.58	15.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	64834	65000	65068	Tx-to-rx (dB)	MPR			
50	QPSK	1	1	13.61	13.67	13.67	15.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	64800	65000	64900	Tx-to-rx (dB)	MPR			
40	QPSK	1	1	13.64	13.70	13.84	15.5	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	64768	65000	64934	Tx-to-rx (dB)	MPR			
30	QPSK	1	1	13.54	13.64	13.51	15.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	64734	65000	64868	Tx-to-rx (dB)	MPR			
20	QPSK	1	1	13.53	13.52	13.80	15.5	0.0			

Part27Q n77 PC3 Ant9											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-rx (dB)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PI2-BPSK	1	1			63900					
100	PI2-BPSK	1	137			13.51		15.5	0.0		
100	PI2-BPSK	136	0			13.82					
100	PI2-BPSK	136	66			13.59		15.5	0.0		
100	PI2-BPSK	136	136			13.54					
100	PI2-BPSK	276	0			13.51		15.5	0.0		
100	QPSK	1	1			13.82					
100	QPSK	1	137			13.51		15.5	0.0		
100	QPSK	1	271			13.55					
100	QPSK	136	0			13.52		15.5	0.0		
100	QPSK	136	69			13.66		15.5	0.0		
100	QPSK	136	138			13.59		15.5	0.0		
100	QPSK	270	0			13.59		15.5	0.0		
100	16QAM	1	1			13.57		15.5	0.0		
100	16QAM	1	1			13.61		15.5	0.0		
Channel											
Frequency (MHz)											
90	QPSK	1	1	63900	63334	63868	Tx-to-rx (dB)	MPR			
90	QPSK	1	1	13.51	13.54	13.92	15.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	63868	63334	63400	Tx-to-rx (dB)	MPR			
80	QPSK	1	1	13.58	13.53	13.52	15.5	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	63834	63334	63434	Tx-to-rx (dB)	MPR			
70	QPSK	1	1	13.60	13.62	13.56	15.5	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	63800	63334	63868	Tx-to-rx (dB)	MPR			
60	QPSK	1	1	13.58	13.55	13.96	15.5	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	63768	63334	63900	Tx-to-rx (dB)	MPR			
50	QPSK	1	1	13.60	13.67	13.56	15.5	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	63734	63334	63934	Tx-to-rx (dB)	MPR			
40	QPSK	1	1	13.53	13.62	13.54	15.5	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	63700	63334	63968	Tx-to-rx (dB)	MPR			
30	QPSK	1	1	13.56	13.61	13.58	15.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	63668	63334	63900	Tx-to-rx (dB)	MPR			
20	QPSK	1	1	13.55	13.60	13.54	15.5	0.0			

Part270 n78 PC2 Ant9											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tx-to-rx (dB)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PI2-BPSK	1	1			65000				17.0	0.0
100	PI2-BPSK	1	137			15.48					0.0
100	PI2-BPSK	136	0			15.41				17.0	0.0
100	PI2-BPSK	136	66			15.50				17.0	0.0
100	PI2-BPSK	136	136			15.20				17.0	0.0
100	PI2-BPSK	276	0			15.47				17.0	0.0
100	QPSK	1	1			15.26				17.0	0.0
100	QPSK	1	137			15.48				17.0	0.0
100	QPSK	1	271			15.38				17.0	0.0
100	QPSK	136	0			15.26				17.0	0.0
100	QPSK	136	69			15.20				17.0	0.0
100	QPSK	136	138			15.20				17.0	0.0
100	QPSK	270	0			15.20				17.0	0.0
100	16QAM	1	1			15.41				17.0	0.0
100	16QAM	1	1			15.41				17.0	0.0
100	256QAM	1	1			15.44				17.0	0.0
Channel											
Frequency (MHz)											
90	QPSK	1	1	64968	65000	65034	Tx-to-rx (dB)	MPR			
90	QPSK	1	1	15.43	15.48	15.41	17.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	64934	65000	65068	Tx-to-rx (dB)	MPR			
80	QPSK	1	1	15.33	15.44	15.28	17.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	64900	65000	65000	Tx-to-rx (dB)	MPR			
70	QPSK	1	1	15.37	15.50	15.23	17.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	64868	65000	65034	Tx-to-rx (dB)	MPR			
60	QPSK	1	1	15.31	15.30	15.30	17.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	64834	65000	65068	Tx-to-rx (dB)	MPR			
50	QPSK	1	1	15.41	15.38	15.22	17.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	64800	65000	64900	Tx-to-rx (dB)	MPR			
40	QPSK	1	1	15.30	15.24	15.40	17.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	64768	65000	64934	Tx-to-rx (dB)	MPR			
30	QPSK	1	1	15.33	15.49	15.29	17.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	64734	65000	64868	Tx-to-rx (dB)	MPR			
20	QPSK	1	1	15.25	15.48	15.41	17.0	0.0			



Part27Q 78 PC2 Ant9										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Frequency Limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				83334						
100	PB4 BPSK	1	1	15.2						
100	PB4 BPSK	1	137	15.32			17.0	0.0		
100	PB4 BPSK	1	271	15.21						
100	PB4 BPSK	135	0	15.43			17.0	0.0		
100	PB4 BPSK	135	66	15.50			17.0	0.0		
100	PB4 BPSK	135	138	15.27			17.0	0.0		
100	PB4 BPSK	270	0	15.35			17.0	0.0		
100	QPSK	1	1	15.53			17.0	0.0		
100	QPSK	1	137	15.29						
100	QPSK	1	271	15.36			17.0	0.0		
100	QPSK	135	0	15.15						
100	QPSK	135	66	15.21			17.0	0.0		
100	QPSK	135	138	15.19			17.0	0.0		
100	QPSK	270	0	15.27			17.0	0.0		
100	16QAM	1	1	15.54			17.0	0.0		
100	16QAM	1	1	15.52			17.0	0.0		
100	16QAM	1	1	15.41			17.0	0.0		
Channel										
Frequency (MHz)				83300						
Frequency (MHz)				83334						
50	QPSK	1	1	15.41	15.52	15.43	17.0	0.0		
Channel										
Frequency (MHz)				83334						
Frequency (MHz)				83334						
80	QPSK	1	1	15.44	15.34	15.38	17.0	0.0		
Channel										
Frequency (MHz)				83334						
Frequency (MHz)				83334						
70	QPSK	1	1	15.38	15.44	15.39	17.0	0.0		
Channel										
Frequency (MHz)				83000						
Frequency (MHz)				83000						
80	QPSK	1	1	15.32	15.43	15.28	17.0	0.0		
Channel										
Frequency (MHz)				83000						
Frequency (MHz)				83000						
50	QPSK	1	1	15.24	15.48	15.41	17.0	0.0		
Channel										
Frequency (MHz)				83000						
Frequency (MHz)				83000						
40	QPSK	1	1	15.44	15.23	15.24	17.0	0.0		
Channel										
Frequency (MHz)				83000						
Frequency (MHz)				83334						
30	QPSK	1	1	15.30	15.28	15.32	17.0	0.0		
Channel										
Frequency (MHz)				83334						
Frequency (MHz)				83000						
20	QPSK	1	1	15.29	15.50	15.29	17.0	0.0		



Par270 n77 PC3 Ant10										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBfs)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2-BPSK	1	1	14.20	14.20	14.20				
100	PI2-BPSK	1	1	14.22	14.24	14.26	15.5	0.0		
100	PI2-BPSK	1	271	14.20	14.20	14.17				
100	PI2-BPSK	186	0	14.28	14.28	14.31	15.5	0.0		
100	PI2-BPSK	186	66	14.27	14.29	14.31	15.5	0.0		
100	PI2-BPSK	186	138	14.26	14.26	14.26				
100	PI2-BPSK	276	0	14.21	14.21	14.11	15.5	0.0		
100	QPSK	1	1	14.33	14.32	14.17				
100	QPSK	1	137	14.26	14.25	14.32	15.5	0.0		
100	QPSK	1	271	14.28	14.38	14.18				
100	QPSK	136	0	14.28	14.35	14.13	15.5	0.0		
100	QPSK	186	69	14.31	14.31	14.05	15.5	0.0		
100	QPSK	186	138	14.25	14.24	14.06	15.5	0.0		
100	QPSK	270	0	14.16	14.26	14.07				
100	16QAM	1	1	14.30	14.25	14.06	15.5	0.0		
100	16QAM	1	1	14.25	14.30	14.03	15.5	0.0		
100	16QAM	1	1	14.13	14.21	14.06	15.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.20	14.20	14.18	15.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.34	14.34	14.04	15.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.12	14.20	13.97	15.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.22	14.20	14.00	15.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.24	14.22	13.99	15.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.20	14.22	14.00	15.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.13	14.22	14.00	15.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.30	14.28	13.96	15.5	0.0		

Par270q n77 PC3 Ant10										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBfs)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2-BPSK	1	1	14.20	14.20	14.20				
100	PI2-BPSK	1	137	14.20	14.20	14.20	15.5	0.0		
100	PI2-BPSK	1	271	14.20	14.20	14.20				
100	PI2-BPSK	186	0	14.28	14.28	14.31	15.5	0.0		
100	PI2-BPSK	186	66	14.27	14.29	14.31	15.5	0.0		
100	PI2-BPSK	186	138	14.26	14.26	14.26				
100	PI2-BPSK	276	0	14.21	14.21	14.11	15.5	0.0		
100	QPSK	1	1	14.37	14.37	14.37				
100	QPSK	1	137	14.21	14.21	14.31	15.5	0.0		
100	QPSK	1	271	14.28	14.34	14.34				
100	QPSK	136	0	14.30	14.30	14.30	15.5	0.0		
100	QPSK	186	69	14.31	14.31	14.31	15.5	0.0		
100	QPSK	186	138	14.29	14.29	14.29	15.5	0.0		
100	QPSK	270	0	14.09	14.09	14.09				
100	16QAM	1	1	14.15	14.22	14.15	15.5	0.0		
100	16QAM	1	1	14.15	14.15	14.15	15.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.10	14.30	13.91	15.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.15	14.24	13.91	15.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	13.99	14.31	13.96	15.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.04	14.23	13.96	15.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.08	14.22	13.98	15.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.03	14.20	13.92	15.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.15	14.17	13.96	15.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.04	14.17	13.77	15.5	0.0		

Par270 n78 PC2 Ant10										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBfs)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2-BPSK	1	1	14.20	14.20	14.20				
100	PI2-BPSK	1	137	14.20	14.20	14.20	17.0	0.0		
100	PI2-BPSK	1	271	14.20	14.20	14.20				
100	PI2-BPSK	186	0	14.28	14.28	14.31	17.0	0.0		
100	PI2-BPSK	186	66	14.27	14.29	14.31	17.0	0.0		
100	PI2-BPSK	186	138	14.26	14.26	14.26				
100	PI2-BPSK	276	0	14.21	14.21	14.11	17.0	0.0		
100	QPSK	1	1	14.30	14.30	14.17				
100	QPSK	1	137	14.26	14.25	14.32	17.0	0.0		
100	QPSK	1	271	14.28	14.38	14.18				
100	QPSK	136	0	14.28	14.35	14.13	17.0	0.0		
100	QPSK	186	69	14.31	14.31	14.05	17.0	0.0		
100	QPSK	186	138	14.25	14.24	14.06	17.0	0.0		
100	QPSK	270	0	14.16	14.26	14.07				
100	16QAM	1	1	14.30	14.25	14.06	17.0	0.0		
100	16QAM	1	1	14.25	14.30	14.03	17.0	0.0		
100	16QAM	1	1	14.13	14.21	14.06	17.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.20	14.20	14.18	17.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.18	14.23	14.04	17.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.16	14.23	14.00	17.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.27	14.20	14.00	17.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.13	14.20	14.00	17.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.10	14.20	14.00	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.10	14.24	14.00	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.22	14.20	14.00	17.0	0.0		



Part27Q 78 PC2 Ant10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				3900.01			
100	PB2-BPSK	1	1	16.13			17.0
100	PB2-BPSK	1	137	16.17			17.0
100	PB2-BPSK	1	271	16.35			17.0
100	PB2-BPSK	1	395	16.19			17.0
100	PB2-BPSK	1	69	16.32			17.0
100	PB2-BPSK	1	195	16.11			17.0
100	PB2-BPSK	1	329	16.35			17.0
100	QPSK	1	1	16.41			17.0
100	QPSK	1	137	16.38			17.0
100	QPSK	1	271	16.21			17.0
100	QPSK	1	395	16.19			17.0
100	QPSK	1	69	16.34			17.0
100	QPSK	1	195	16.19			17.0
100	QPSK	1	329	16.27			17.0
100	16QAM	1	1	16.01			17.0
100	16QAM	1	1	16.49			17.0
100	16QAM	1	1	16.25			17.0
Channel							
Frequency (MHz)				833000	833334	833668	Tune-up limit (dBm)
50	QPSK	1	1	16.26	16.31	16.37	17.0
50	QPSK	1	1	16.30	16.39	16.43	17.0
Channel							
Frequency (MHz)				833668	833334	833000	Tune-up limit (dBm)
80	QPSK	1	1	16.13	16.21	16.36	17.0
Channel							
Frequency (MHz)				833334	833334	833334	Tune-up limit (dBm)
70	QPSK	1	1	16.16	16.41	16.30	17.0
Channel							
Frequency (MHz)				833000	833000	833000	Tune-up limit (dBm)
80	QPSK	1	1	16.20	16.28	16.36	17.0
Channel							
Frequency (MHz)				833334	833334	833334	Tune-up limit (dBm)
50	QPSK	1	1	16.16	16.18	16.26	17.0
Channel							
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)
40	QPSK	1	1	16.23	16.23	16.23	17.0
Channel							
Frequency (MHz)				833000	833334	833668	Tune-up limit (dBm)
30	QPSK	1	1	16.10	16.23	16.37	17.0
Channel							
Frequency (MHz)				833668	833334	833000	Tune-up limit (dBm)
20	QPSK	1	1	16.09	16.22	16.29	17.0



Par270 n77 PC3 Ant11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PID-BPSK	1	1	16.91	17.23	17.24			
100	PID-BPSK	1	137	17.02	17.04	17.05	18.5	0.0	
100	PID-BPSK	1	271	17.08	17.21	17.20			
100	PID-BPSK	136	0	17.08	18.08	17.07	18.5	0.0	
100	PID-BPSK	136	66	18.05	18.09	18.08	18.5	0.0	
100	PID-BPSK	136	138	18.06	17.72	17.70			
100	PID-BPSK	236	0	17.08	17.15	17.09	18.5	0.0	
100	QPSK	1	1	17.10	17.22	17.18			
100	QPSK	1	137	17.11	18.08	17.10	18.5	0.0	
100	QPSK	1	271	18.06	17.02	17.02			
100	QPSK	136	0	17.08	17.10	17.05	18.5	0.0	
100	QPSK	136	69	18.05	17.71	17.15	18.5	0.0	
100	QPSK	136	138	18.06	18.00	17.25	18.5	0.0	
100	QPSK	236	0	18.05	17.02	17.74			
100	16QAM	1	1	17.03	17.14	17.11	18.5	0.0	
100	16QAM	1	1	18.05	17.04	18.05	18.5	0.0	
100	256QAM	1	1	18.03	17.01	17.08	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.01	17.13	18.06	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.07	17.05	18.06	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.08	17.04	17.12	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.02	17.05	18.04	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.08	17.04	18.08	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.09	17.01	17.24	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.03	17.01	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.08	17.05	17.05	18.5	0.0	

Part270q n77 PC3 Ant11											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PID-BPSK	1	1			18.00					
100	PID-BPSK	1	137			18.04	18.5	0.0			
100	PID-BPSK	1	271			17.08					
100	PID-BPSK	136	0			18.02	18.5	0.0			
100	PID-BPSK	136	66			18.04	18.5	0.0			
100	PID-BPSK	136	138			18.04					
100	PID-BPSK	236	0			17.15	18.5	0.0			
100	QPSK	1	1			17.10					
100	QPSK	1	137			17.08	18.5	0.0			
100	QPSK	1	271			17.00					
100	QPSK	136	0			18.02	18.5	0.0			
100	QPSK	136	69			17.92	18.5	0.0			
100	QPSK	136	138			18.04	18.5	0.0			
100	QPSK	236	0			17.15	18.5	0.0			
100	16QAM	1	1			17.15	18.5	0.0			
100	16QAM	1	1			18.02	18.5	0.0			
100	256QAM	1	1			18.01	18.5	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1			18.00	18.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1			17.00	17.05	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
70	QPSK	1	1			18.02	17.12	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
60	QPSK	1	1			18.08	17.13	17.09	18.5	0.0	
Channel											
Frequency (MHz)											
50	QPSK	1	1			17.01	17.02	17.09	18.5	0.0	
Channel											
Frequency (MHz)											
40	QPSK	1	1			18.00	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
30	QPSK	1	1			17.03	17.02	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
20	QPSK	1	1			18.08	17.01	18.00	18.5	0.0	

Part270 n78 PC2 Ant11											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PID-BPSK	1	1			18.00					
100	PID-BPSK	1	137			18.04	18.5	0.0			
100	PID-BPSK	1	271			18.04					
100	PID-BPSK	136	0			18.02	18.5	0.0			
100	PID-BPSK	136	66			18.04	18.5	0.0			
100	PID-BPSK	136	138			18.04					
100	PID-BPSK	236	0			18.05	18.5	0.0			
100	QPSK	1	1			18.02					
100	QPSK	1	137			18.00	18.5	0.0			
100	QPSK	1	271			18.07					
100	QPSK	136	0			18.00	18.5	0.0			
100	QPSK	136	69			18.00	18.5	0.0			
100	QPSK	136	138			18.00	18.5	0.0			
100	QPSK	236	0			18.00	18.5	0.0			
100	16QAM	1	1			18.00	18.5	0.0			
100	16QAM	1	1			18.02	18.5	0.0			
100	256QAM	1	1			18.00	18.5	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1			18.00	18.5	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1			18.02	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
70	QPSK	1	1			18.00	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
60	QPSK	1	1			18.02	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
50	QPSK	1	1			18.08	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
40	QPSK	1	1			18.00	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
30	QPSK	1	1			18.00	18.00	18.00	18.5	0.0	
Channel											
Frequency (MHz)											
20	QPSK	1	1			18.00	18.00	18.00	18.5	0.0	



Part27Q 78 PC2 Ant11

BW (MHz)	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)				833334					
100	PB4 BPSK	1	1	18.29			18.0	0.0	
100	PB4 BPSK	1	137	18.27					
100	PB4 BPSK	1	271	18.49			18.0	0.0	
100	PB4 BPSK	135	0	18.51					
100	PB4 BPSK	135	66	18.45			18.0	0.0	
100	PB4 BPSK	135	138	18.41			18.0	0.0	
100	PB4 BPSK	270	0	18.53			18.0	0.0	
100	QPSK	1	1	18.85			18.0	0.0	
100	QPSK	1	137	18.84					
100	QPSK	1	271	18.81			18.0	0.0	
100	QPSK	135	0	18.83					
100	QPSK	135	66	18.86			18.0	0.0	
100	QPSK	135	138	18.89			18.0	0.0	
100	QPSK	270	0	18.91			18.0	0.0	
100	16QAM	1	1	18.50			18.0	0.0	
100	16QAM	1	1	18.64			18.0	0.0	
100	256QAM	1	1	18.24			18.0	0.0	
Channel									
Frequency (MHz)				833334			833888	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.48	18.55	18.51	18.0	0.0	
Channel									
Frequency (MHz)				833888			834334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.48	18.23	18.33	18.0	0.0	
Channel									
Frequency (MHz)				834334			834334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.47	18.14	18.31	18.0	0.0	
Channel									
Frequency (MHz)				835000			835554	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.47	18.24	18.43	18.0	0.0	
Channel									
Frequency (MHz)				835554			835554	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.38	18.13	18.43	18.0	0.0	
Channel									
Frequency (MHz)				837012			837012	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.44	18.23	18.51	18.0	0.0	
Channel									
Frequency (MHz)				837012			837012	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.30	18.18	18.43	18.0	0.0	
Channel									
Frequency (MHz)				836988			837334	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.40	18.23	18.52	18.0	0.0	



Full Power level/Default Power level for 5G NR Other PA

n41 Ant3 Default									
BW (MHz)	Modulation	RB Size	RB OFset	Power Lwr Ch. Freq.	Power Midd. Ch. Freq.	Power Hgh Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50900	51898	52800			
Frequency (MHz)				241.01	242.20	243.00			
100	PI4 BPSK	1	1	24.12	24.32	24.36			
100	PI4 BPSK	1	137	24.24	24.35	24.11	25.0	0.0	
100	PI4 BPSK	1	271	24.15	24.25	24.17			
100	PI4 BPSK	136	0	23.73	23.74	23.79	24.0	0.5	
100	PI4 BPSK	136	69	24.17	24.18	24.26	25.0	0.0	
100	PI4 BPSK	136	138	23.92	23.92	23.81	24.5	0.5	
100	PI4 BPSK	270	0	23.99	24.01	23.90			
100	QPSK	1	1	24.07	24.04	24.36			
100	QPSK	1	137	24.14	24.15	23.28	25.0	0.0	
100	QPSK	1	271	24.18	24.21	24.38			
100	QPSK	136	0	23.34	23.29	23.15	24.0	1.0	
100	QPSK	136	69	24.23	24.37	24.02	25.0	0.0	
100	QPSK	136	138	23.31	23.35	23.34	24.0	1.0	
100	QPSK	270	0	23.18	23.51	23.15			
100	16QAM	1	1	23.22	23.41	23.23	24.0	1.0	
100	16QAM	1	1	23.79	23.99	23.76	25.0	0.5	
100	256QAM	1	1	19.77	19.80	19.87	20.5	4.5	
Channel				50500	51896	52898	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				241	252.20	264.08			
90	QPSK	1	1	24.17	24.38	24.22	25.0	0.0	
Channel				50100	51896	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				238.02	250.20	260.98			
80	QPSK	1	1	24.21	24.37	24.34	25.0	0.0	
Channel				50800	51898	53000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				253.01	259.20	265.5			
70	QPSK	1	1	24.11	24.30	24.35	25.0	0.0	
Channel				50000	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				238	250.20	259.98			
60	QPSK	1	1	24.03	24.23	24.17	25.0	0.0	
Channel				50400	51898	53098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				252.02	259.20	264.98			
50	QPSK	1	1	24.09	24.29	24.30	25.0	0.0	
Channel				50900	51898	53000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				216.01	222.20	227.18			
45	QPSK	1	1	24.03	24.38	24.15	25.0	0.0	
Channel				50200	51898	53098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				241	249.20	258.98			
30	QPSK	1	1	24.09	24.52	24.17	25.0	0.0	
Channel				50100	51896	53098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				250.02	252.20	259.98			
25	QPSK	1	1	24.14	24.30	24.17	25.0	0.0	



n41 Ant4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mph Ch. / Freq.	Time-up limit (dBm)	MFR (dB)	
				50500	51898	52690			
				246.01	2592.30	2695			
	Channel								
100	PI2-BPSK	1	1	22.96	23.00	22.99			
100	PI2-BPSK	1	137	23.01	23.18	23.14	24.5	0.0	
100	PI2-BPSK	1	271	23.10	23.27	23.27			
100	PI2-BPSK	136	0	22.90	22.94	22.97	24.0	0.5	
100	PI2-BPSK	136	69	22.88	23.02	23.09	24.5	0.0	
100	PI2-BPSK	136	136	22.66	22.74	22.76			
100	PI2-BPSK	270	0	22.81	22.85	22.74	24.0	0.5	
100	QPSK	1	1	23.18	23.20	23.24			
100	QPSK	1	137	23.15	23.28	23.00	24.5	0.0	
100	QPSK	1	271	23.21	23.08	23.08			
100	QPSK	136	0	21.99	22.05	22.00	23.5	1.0	
100	QPSK	136	69	22.09	23.10	23.02	24.5	0.0	
100	QPSK	136	136	22.07	22.18	22.21	23.5	1.0	
100	QPSK	270	0	21.84	22.00	22.00			
100	16QAM	1	1	22.22	22.05	22.02	23.5	1.0	
100	16QAM	1	1	20.79	20.58	20.89	22.0	2.5	
100	256QAM	1	1	18.38	18.21	18.32	20.0	4.5	
	Channel			50500	51898	52690	Time-up limit (dBm)	MFR (dB)	
	Frequency (MHz)			25.0	2502.0	2581.0			
90	QPSK	1	1	23.08	23.13	23.12	24.5	0.0	
	Channel			50204	51898	52698	Time-up limit (dBm)	MFR (dB)	
80	QPSK	1	1	23.12	23.11	23.20	24.0	0.0	
	Channel			50500	51896	53100	Time-up limit (dBm)	MFR (dB)	
70	QPSK	1	1	23.20	23.11	23.25	24.5	0.0	
	Channel			50500	51898	53198	Time-up limit (dBm)	MFR (dB)	
60	QPSK	1	1	23.17	23.21	23.04	24.5	0.0	
	Channel			50500	51898	52690	Time-up limit (dBm)	MFR (dB)	
50	QPSK	1	1	23.18	23.25	23.16	24.5	0.0	
	Channel			50500	51896	54000	Time-up limit (dBm)	MFR (dB)	
40	QPSK	1	1	23.07	23.22	23.22	24.5	0.0	
	Channel			50200	51898	53698	Time-up limit (dBm)	MFR (dB)	
30	QPSK	1	1	23.16	23.17	23.09	24.0	0.0	
	Channel			50104	51898	53698	Time-up limit (dBm)	MFR (dB)	
20	QPSK	1	1	23.05	23.17	23.22	24.0	0.0	



Reduced power level for 5G NR Other PA

n41 Ant3 DS11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Midd. Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50900	51898	52800			
Frequency (MHz)				241.01	242.20	243.00			
100	PI4 BPSK	1	1	241.2	243.2	243.6			
100	PI4 BPSK	1	137	2424	2435	24311	25.0	0.0	
100	PI4 BPSK	1	271	2415	2420	2417			
100	PI4 BPSK	136	0	2373	2374	2379	24.0	0.5	
100	PI4 BPSK	136	69	2417	2418	2420	25.0	0.0	
100	PI4 BPSK	136	138	2392	2392	2393	24.5	0.5	
100	PI4 BPSK	270	0	2399	2401	2390			
100	QPSK	1	1	2427	2424	2430			
100	QPSK	1	137	2414	2415	2420	25.0	0.0	
100	QPSK	1	271	2418	2421	2430			
100	QPSK	136	0	2334	2320	2310	24.0	1.0	
100	QPSK	136	69	2423	2437	2402	25.0	0.0	
100	QPSK	136	138	2331	2330	2334	24.0	1.0	
100	QPSK	270	0	2318	2321	2312			
100	16QAM	1	1	2322	2341	2323	24.0	1.0	
100	16QAM	1	1	2370	2370	2370	22.0	1.5	
100	256QAM	1	1	1977	1980	1987	20.0	4.5	
Channel				50500	51896	52898			
Frequency (MHz)				241	252.20	243.08			
90	QPSK	1	1	2417	2430	2422	25.0	0.0	
Channel				50700	51896	52898			
Frequency (MHz)				239.02	259.90	249.90			
80	QPSK	1	1	2421	2437	2434	25.0	0.0	
Channel				50800	51898	52900			
Frequency (MHz)				253.01	259.90	249.5			
70	QPSK	1	1	2411	2430	2435	25.0	0.0	
Channel				50900	51900	52900			
Frequency (MHz)				238	259.90	259.90			
60	QPSK	1	1	2413	2420	2417	25.0	0.0	
Channel				50400	51898	53098			
Frequency (MHz)				232.02	239.90	244.90			
50	QPSK	1	1	2410	2417	2410	25.0	0.0	
Channel				50900	51898	53000			
Frequency (MHz)				216.01	232.20	241.8			
40	QPSK	1	1	2409	2430	2415	25.0	0.0	
Channel				50200	51898	53498			
Frequency (MHz)				241	249.90	249.90			
30	QPSK	1	1	2409	2432	2417	25.0	0.0	
Channel				50100	51896	53098			
Frequency (MHz)				259.02	259.90	259.90			
20	QPSK	1	1	2414	2430	2417	25.0	0.0	



n41 Ant4 DSH								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mph Ch. / Freq.	Totals up limit (dBm)	MPE (dB)
				50900	51898	52896		
				2048.01	2092.30	2040		
				15.30	15.42	15.44		
100	PI2-BPSK	1	1	15.30	15.42	15.44	16.5	0.0
100	PI2-BPSK	1	137	15.48	15.37	15.30		
100	PI2-BPSK	1	271	15.35	15.40	15.36		
100	PI2-BPSK	136	0	15.38	15.56	15.34	16.5	0.0
100	PI2-BPSK	136	69	15.40	15.40	15.40	16.5	0.0
100	PI2-BPSK	136	136	15.35	15.35	15.42		
100	PI2-BPSK	270	0	15.48	15.35	15.31	16.5	0.0
100	QPSK	1	1	15.48	15.50	15.52		
100	QPSK	1	137	15.43	15.25	15.30	16.5	0.0
100	QPSK	1	271	15.37	15.58	15.38		
100	QPSK	136	0	15.27	15.50	15.43	16.5	0.0
100	QPSK	136	69	15.35	15.52	15.30	16.5	0.0
100	QPSK	136	136	15.50	15.52	15.43	16.5	0.0
100	QPSK	270	0	15.44	15.40	15.40		
100	16QAM	1	1	15.31	15.52	15.52	16.5	0.0
100	16QAM	1	1	15.28	15.52	15.45	16.5	0.0
100	256QAM	1	1	15.38	15.31	15.30	16.5	0.0
				50900	51898	52896	Totals up limit (dBm)	MPE
				2048	2092.30	2040	16.5	0.0
				15.40	15.42	15.45	16.5	0.0
90	QPSK	1	1	15.40	15.42	15.45	16.5	0.0
				50900	51898	52896	Totals up limit (dBm)	MPE
				2048.02	2092.30	2040.06	16.5	0.0
80	QPSK	1	1	15.40	15.56	15.36	16.5	0.0
				50900	51896	53100	Totals up limit (dBm)	MPE
				2048.01	2092.30	2040	16.5	0.0
70	QPSK	1	1	15.28	15.60	15.37	16.5	0.0
				50900	51898	53100	Totals up limit (dBm)	MPE
				2048	2092.30	2040.06	16.5	0.0
60	QPSK	1	1	15.37	15.52	15.41	16.5	0.0
				50900	51898	53100	Totals up limit (dBm)	MPE
				2048.02	2092.30	2040.06	16.5	0.0
50	QPSK	1	1	15.27	15.57	15.39	16.5	0.0
				50900	51898	53100	Totals up limit (dBm)	MPE
				2048.01	2092.30	2040	16.5	0.0
40	QPSK	1	1	15.32	15.61	15.41	16.5	0.0
				50900	51898	53100	Totals up limit (dBm)	MPE
				2048	2092.30	2040.06	16.5	0.0
30	QPSK	1	1	15.39	15.48	15.48	16.5	0.0
				50900	51898	53100	Totals up limit (dBm)	MPE
				2048.02	2092.30	2040.06	16.5	0.0
20	QPSK	1	1	15.37	15.37	15.42	16.5	0.0



n41 Ant3 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mph Ch. / Freq.	Totals up limit (dBm)	MPE (dB)
				5048.01	5092.50	5095		
	Channel							
	Frequency (MHz)			2412	2432	2436		
100	PI2 BPSK	1	1	2412	2432	2436		
100	PI2 BPSK	1	137	2424	2432	2411	25.0	0.0
100	PI2 BPSK	1	271	2419	2420	2417		
100	PI2 BPSK	136	0	2373	2374	2370	24.5	0.5
100	PI2 BPSK	136	69	2417	2418	2420	25.0	0.0
100	PI2 BPSK	136	136	2366	2366	2364		
100	PI2 BPSK	270	0	2350	2411	2350	24.5	0.5
100	QPSK	1	1	2427	2441	2436		
100	QPSK	1	137	2414	2415	2420	25.0	0.0
100	QPSK	1	271	2418	2421	2428		
100	QPSK	136	0	2334	2335	2318	24.0	1.0
100	QPSK	136	69	2423	2423	2405	25.0	0.0
100	QPSK	136	136	2351	2350	2334	24.0	1.0
100	QPSK	270	0	2316	2325	2315		
100	16QAM	1	1	2322	2341	2320	24.0	1.0
100	16QAM	1	1	2179	2196	2178	22.5	2.5
100	256QAM	1	1	1877	1883	1887	20.5	4.5
	Channel			518500	518998	520998	Totals up limit	MPE
	Frequency (MHz)			2411	2424	2418		
90	QPSK	1	1	2417	2438	2422	25.0	0.0
	Channel			517204	518998	520998	Totals up limit	MPE
	Frequency (MHz)			2424	2437	2434		
80	QPSK	1	1	2424	2437	2434	25.0	0.0
	Channel			518202	518998	531000	Totals up limit	MPE
	Frequency (MHz)			2431.01	2432.00	2435		
70	QPSK	1	1	2411	2430	2435	25.0	0.0
	Channel			505500	518998	531998	Totals up limit	MPE
	Frequency (MHz)			2408	2435	2417	25.0	0.0
60	QPSK	1	1	2428	2435	2417	25.0	0.0
	Channel			518201	518998	520000	Totals up limit	MPE
	Frequency (MHz)			2421.00	2432.00	2434.00		
50	QPSK	1	1	2408	2437	2438	25.0	0.0
	Channel			518200	518998	540000	Totals up limit	MPE
	Frequency (MHz)			2418.01	2432.00	2430		
40	QPSK	1	1	2410	2432	2415	25.0	0.0
	Channel			502000	518998	534000	Totals up limit	MPE
	Frequency (MHz)			2411	2432.00	2424.00		
30	QPSK	1	1	2409	2421	2417	25.0	0.0
	Channel			501204	518998	530998	Totals up limit	MPE
	Frequency (MHz)			2412.01	2422.00	2419.00		
20	QPSK	1	1	2414	2438	2417	25.0	0.0



n41 Ant4 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mph Ch. / Freq.	Totals up limit (dBm)	MPR (dB)
				50000	51898	53690		
				248.01	2692.30	2690		
				19.00	20.04	20.12		
100	PI2-BPSK	1	1	20.05	19.90	20.05	21.5	0.0
100	PI2-BPSK	1	137	20.03	20.14	20.14		
100	PI2-BPSK	136	0	19.04	20.10	20.11	21.5	0.0
100	PI2-BPSK	136	69	19.06	20.10	20.12	21.5	0.0
100	PI2-BPSK	136	136	19.06	20.11	20.12		
100	PI2-BPSK	270	0	19.08	20.11	20.07	21.5	0.0
100	QPSK	1	1	20.07	20.22	20.22		
100	QPSK	1	137	19.00	20.10	20.34		
100	QPSK	1	271	19.95	19.90	20.18	21.5	0.0
100	QPSK	136	0	19.09	19.90	20.05	21.5	0.0
100	QPSK	136	69	20.08	20.10	20.04	21.5	0.0
100	QPSK	136	136	19.03	20.04	20.01	21.5	0.0
100	QPSK	270	0	19.06	20.05	20.06		
100	16QAM	1	1	19.87	20.14	20.18	21.5	0.0
100	16QAM	1	1	20.05	19.90	20.03	21.5	0.0
100	256QAM	1	1	18.34	18.27	18.44	20.0	1.5
				51850	51898	53690	Totals up limit (dBm)	MPR
				24.01	2692.30	2681.8	21.5	0.0
				20.05	20.00	20.18	21.5	0.0
				517204	51898	53690	Totals up limit (dBm)	MPR
				2624.02	2692.30	2681.8	21.5	0.0
				19.87	20.17	20.24	21.5	0.0
				518202	51898	531000	Totals up limit (dBm)	MPR
				2621.01	2692.30	2685	21.5	0.0
				20.02	20.10	20.14	21.5	0.0
				50500	51898	531998	Totals up limit (dBm)	MPR
				2608	2692.30	2689.98	21.5	0.0
				20.08	20.10	20.07	21.5	0.0
				518101	51898	531000	Totals up limit (dBm)	MPR
				2621.00	2692.30	2684.99	21.5	0.0
				20.08	20.10	20.24	21.5	0.0
				518000	51898	530000	Totals up limit (dBm)	MPR
				2618.01	2692.30	2670	21.5	0.0
				20.00	20.21	20.12	21.5	0.0
				502000	51898	53098	Totals up limit (dBm)	MPR
				2611	2692.30	2674.9	21.5	0.0
				20.02	20.00	20.10	21.5	0.0
				501204	51898	53098	Totals up limit (dBm)	MPR
				2608.02	2692.30	2671.97	21.5	0.0
				20.01	20.20	20.12	21.5	0.0



n41 Ant3 DS15									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (MHz)	Power High Ch. / Freq. (MHz)	Power Mph Ch. / Freq. (MHz)	Time-up limit (dBm)	MPR (dB)	
				50500	51898	52690			
				2448.01	2592.50	2640			
				17.75	18.42	18.50			
100	PI2-BPSK	1	1	17.85	18.27	17.99	19.0	0.0	
100	PI2-BPSK	1	271	18.00	18.07	18.03			
100	PI2-BPSK	136	0	17.95	18.03	18.06	19.0	0.0	
100	PI2-BPSK	136	69	17.86	18.18	17.98	19.0	0.0	
100	PI2-BPSK	136	136	18.00	18.22	18.17			
100	PI2-BPSK	270	0	17.89	18.15	18.06	19.0	0.0	
100	QPSK	1	1	18.00	18.22	18.16			
100	QPSK	1	137	17.93	18.27	18.10	19.0	0.0	
100	QPSK	1	271	17.97	18.10	18.14			
100	QPSK	136	0	17.90	18.05	18.17	19.0	0.0	
100	QPSK	136	69	17.87	18.25	17.98	19.0	0.0	
100	QPSK	136	136	18.01	18.22	18.13			
100	QPSK	270	0	17.87	18.05	18.13	19.0	0.0	
100	16QAM	1	1	17.89	18.17	18.10	19.0	0.0	
100	16QAM	1	1	17.89	18.10	18.13	19.0	0.0	
100	16QAM	1	1	17.89	18.13	18.00	19.0	0.0	
				50500	51898	52690	Time-up limit (dBm)	MPR (dB)	
				2448.01	2592.50	2640			
				17.75	18.13	18.03	19.0	0.0	
90	QPSK	1	1	17.75	18.13	18.03	19.0	0.0	
				507204	51898	52699	Time-up limit (dBm)	MPR (dB)	
				2624.02	2692.50	2640.50			
80	QPSK	1	1	18.01	18.20	18.01	19.0	0.0	
				50500	51898	53100	Time-up limit (dBm)	MPR (dB)	
				2521.01	2592.50	2655			
70	QPSK	1	1	17.87	18.17	17.96	19.0	0.0	
				50500	51898	53199	Time-up limit (dBm)	MPR (dB)	
				2598	2592.50	2668.98			
60	QPSK	1	1	17.89	18.11	18.11	19.0	0.0	
				50500	51898	52000	Time-up limit (dBm)	MPR (dB)	
				2521.02	2592.50	2664.99			
50	QPSK	1	1	17.91	18.17	18.00	19.0	0.0	
				50500	51898	54000	Time-up limit (dBm)	MPR (dB)	
				2511.01	2592.50	2630			
40	QPSK	1	1	17.73	18.43	18.17	19.0	0.0	
				50200	51898	53698	Time-up limit (dBm)	MPR (dB)	
				2511	2592.50	2674.98			
30	QPSK	1	1	17.13	18.13	17.95	19.0	0.0	
				50104	51898	53698	Time-up limit (dBm)	MPR (dB)	
				2548.02	2592.50	2670.97			
20	QPSK	1	1	18.02	18.08	18.01	19.0	0.0	



n41 Ant4 DSIS									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (MHz)	Power High Ch. / Freq. (MHz)	Power Mph Ch. / Freq. (MHz)	Time-up limit (dBm)	MFR (dB)	
				50900	51898	52896			
				50900	51898	52896			
				50900	51898	52896			
100	PI2-BPSK	1	1	15.39	15.42	15.44			
100	PI2-BPSK	1	137	15.48	15.37	15.30	16.5	0.0	
100	PI2-BPSK	1	271	15.35	15.40	15.36			
100	PI2-BPSK	136	0	15.38	15.56	15.34	16.5	0.0	
100	PI2-BPSK	136	69	15.40	15.40	15.40	16.5	0.0	
100	PI2-BPSK	136	136	15.35	15.35	15.42			
100	PI2-BPSK	270	0	15.48	15.35	15.31	16.5	0.0	
100	QPSK	1	1	15.48	15.50	15.52			
100	QPSK	1	137	15.43	15.25	15.30	16.5	0.0	
100	QPSK	1	271	15.37	15.58	15.38			
100	QPSK	136	0	15.27	15.50	15.43	16.5	0.0	
100	QPSK	136	69	15.35	15.52	15.39	16.5	0.0	
100	QPSK	136	136	15.50	15.52	15.43	16.5	0.0	
100	QPSK	270	0	15.44	15.40	15.40			
100	16QAM	1	1	15.31	15.52	15.52	16.5	0.0	
100	16QAM	1	1	15.28	15.52	15.45	16.5	0.0	
100	16QAM	1	1	15.38	15.31	15.30	16.5	0.0	
				50900	51898	52896	Time-up limit (dBm)	MFR (dB)	
				50900	51898	52896			
90	QPSK	1	1	15.49	15.42	15.45	16.5	0.0	
				50900	51898	52896	Time-up limit (dBm)	MFR (dB)	
				50900	51898	52896			
80	QPSK	1	1	15.40	15.56	15.36	16.5	0.0	
				50900	51898	53000	Time-up limit (dBm)	MFR (dB)	
				50900	51898	53000			
70	QPSK	1	1	15.28	15.60	15.37	16.5	0.0	
				50900	51898	53000	Time-up limit (dBm)	MFR (dB)	
				50900	51898	53000			
60	QPSK	1	1	15.37	15.52	15.41	16.5	0.0	
				50900	51898	53000	Time-up limit (dBm)	MFR (dB)	
				50900	51898	53000			
50	QPSK	1	1	15.27	15.57	15.39	16.5	0.0	
				50900	51898	53000	Time-up limit (dBm)	MFR (dB)	
				50900	51898	53000			
40	QPSK	1	1	15.12	15.61	15.41	16.5	0.0	
				50900	51898	53000	Time-up limit (dBm)	MFR (dB)	
				50900	51898	53000			
30	QPSK	1	1	15.19	15.48	15.48	16.5	0.0	
				50900	51898	53000	Time-up limit (dBm)	MFR (dB)	
				50900	51898	53000			
20	QPSK	1	1	15.37	15.37	15.42	16.5	0.0	



WLAN/Bluetooth Power

Art 15-16		Full power/5Gbit/sq Simultaneous				Head Standalone/4Gbit/sq Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
802.11a (80MHz)	1	2412	20.21	21.50	17.24	18.50	99.29	
	6	2437	20.26	21.50	17.24	18.50		
	11	2462	20.11	21.50	17.11	18.50		
	1	2412	19.94	18.50		18.50		
	6	2437	20.48	22.00		18.50		
	11	2462	17.64	19.50		18.50		
802.11g (80MHz)	1	2412	15.71	17.00		18.50	99.32	
	6	2437	18.62	20.50		18.50		
	11	2462	17.05	16.00		18.50		
	3	2422	17.80	19.50		18.50		
	9	2437	17.87	19.50		18.50		
	11	2462	17.89	19.50		18.50		
802.11a+HT40 MCS0	1	2412	15.85	17.00		18.50	100.00	
	6	2437	18.77	20.50		18.50		
	11	2462	17.12	16.00		18.50		
	3	2422	18.30	20.00		18.50		
	9	2437	18.37	20.00		18.50		
	11	2462	17.67	16.00		18.50		

Art 15-16		Head Standalone		Head Simultaneous		Body Standalone		Body Simultaneous		Hotspot Standalone		Hotspot Simultaneous		Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Power Setting	Average power (dBm)	Turn-Up Limit	Power Setting	Average power (dBm)	Turn-Up Limit	Average power (dBm)			
802.11a (80MHz)	38	5180	19.48	21.00	17.00	14.00	21.00	19.00	21.00	19.00	19.48	21.00	18.00	99.32		
	40	5200	21.00	23.00	17.00	14.00	21.00	19.00	21.00	19.00	21.00	23.00	18.00			
	44	5220	21.90	23.50	17.00	14.00	21.00	19.00	21.00	19.00	21.44	23.00	18.00			
	48	5240	21.96	23.50	17.00	14.00	21.00	Not Required	19.00	21.00	21.58	23.00	18.00			
	38	5180	19.25	21.00	17.00	14.00	21.00	Not Required	19.00	21.00	19.00	21.00	18.00			
	40	5200	20.89	22.50	17.00	14.00	21.00	Not Required	19.00	21.00	19.00	22.50	18.00			
802.11a+HT20 MCS0	44	5220	20.75	22.50	17.00	14.00	21.00	Not Required	19.00	21.00	19.00	22.50	18.00	100.00		
	48	5240	20.75	22.50	17.00	14.00	21.00	Not Required	19.00	21.00	19.00	22.50	18.00			
	38	5180	19.71	20.50	17.00	14.00	21.00	Not Required	18.71	20.50	18.00	20.50	18.00			
	48	5240	19.85	21.00	17.00	14.00	21.00	19.85	21.00	17.00	19.00	21.00	18.00			
	40	5200	20.89	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.00	18.00			
	44	5220	20.86	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00			
802.11ac VHT40 MCS0	38	5180	19.21	21.00	17.00	14.00	21.00	19.00	21.00	19.00	19.00	21.00	18.00	100.00		
	40	5200	20.89	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00			
	44	5220	20.75	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00			
	48	5240	20.81	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00			
	38	5180	18.75	20.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	20.50	18.00			
	46	5230	19.83	21.00	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.00	18.00			
802.11ac VHT80 MCS0	42	5210	17.96	19.50	15.43	17.00	12.49	14.00	19.50	17.00	18.00	15.00	19.50	14.42	18.00	100.00
	38	5180	19.48	21.00	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.00	18.00	18.00	100.00	
	40	5200	21.07	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00	18.00	100.00	
	44	5220	20.86	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00	18.00	100.00	
	48	5240	20.93	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00	18.00	100.00	
	38	5180	19.78	20.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	20.50	18.00	18.00	100.00	
802.11ac HE40 MCS0	48	5240	19.89	21.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.50	18.00	18.00	100.00	
	42	5210	18.08	20.00	17.00	14.00	20.00	19.00	20.00	19.00	20.00	20.00	18.00	18.00	100.00	

Art 15-16		Head Standalone		Head Simultaneous		Body Standalone		Body Simultaneous		Hotspot Standalone		Hotspot Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Power Setting	Average power (dBm)	Turn-Up Limit	Power Setting	Average power (dBm)	Turn-Up Limit	Average power (dBm)	
802.11a (80MHz)	52	5260	21.96	23.50	17.00	14.00	21.00	19.00	21.00	19.00	21.00	23.50	18.00	99.32
	56	5280	21.00	23.00	17.00	14.00	21.00	19.00	21.00	19.00	21.00	23.00	18.00	
	60	5300	21.96	23.50	17.00	14.00	21.00	Not Required	19.00	21.00	21.22	23.50	18.00	
	64	5320	20.05	22.00	17.00	14.00	20.50	Not Required	19.00	20.50	20.05	22.00	18.00	
	52	5260	20.65	22.50	17.00	14.00	20.50	Not Required	19.00	20.50	20.65	22.50	18.00	
	56	5280	20.94	22.50	17.00	14.00	20.50	Not Required	19.00	20.50	20.94	22.50	18.00	
802.11a+HT20 MCS0	60	5300	20.74	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00	100.00
	64	5320	19.94	21.50	17.00	14.00	20.50	Not Required	19.00	20.50	21.50	21.50	18.00	
	54	5270	19.81	21.50	17.00	14.00	18.71	20.50	18.00	19.00	19.00	21.50	18.00	
	62	5310	19.36	21.00	17.00	14.00	18.07	20.50	18.00	19.00	19.00	21.00	18.00	
	60	5300	20.87	22.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	22.50	18.00	
	64	5320	19.63	21.50	17.00	14.00	20.50	Not Required	19.00	20.50	21.50	21.50	18.00	
802.11ac VHT40 MCS0	54	5270	19.82	21.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.50	18.00	100.00
	62	5310	19.82	21.50	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.50	18.00	
	58	5290	20.72	22.50	17.00	14.00	20.50	Not Required	19.00	20.50	20.72	22.50	18.00	
	60	5300	20.73	22.50	17.00	14.00	20.50	Not Required	19.00	20.50	20.73	22.50	18.00	
	64	5320	19.63	21.50	17.00	14.00	20.50	Not Required	19.00	20.50	21.50	21.50	18.00	
	54	5270	19.85	21.50	17.00	14.00	20.50	Not Required	19.00	20.50	21.50	21.50	18.00	
802.11ac VHT80 MCS0	62	5310	19.62	21.00	17.00	14.00	21.00	21.00	21.00	19.00	19.00	21.00	18.00	100.00
	58	5290	18.11	20.00	17.00	14.00	20.00	19.00	20.00	19.00	20.00	20.00	18.00	
	50	5250	17.40	19.50	17.00	14.00	18.00	19.00	19.00	18.00	19.00	19.50	18.00	

Art 15-16		Head Standalone		Head Simultaneous		Body Standalone		Body Simultaneous		Hotspot Standalone		Hotspot Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Power Setting	Average power (dBm)	Turn-Up Limit	Power Setting	Average power (dBm)	Turn-Up Limit	Average power (dBm)	
802.11a (80MHz)	100	5600	20.63	23.50	17.50	14.50	20.50	17.50	20.50	17.50	20.72	23.50	18.00	99.32
	116	5680	21.75	23.50	17.50	14.50	20.50	17.50	20.50	17.50	20.78	23.50	18.00	
	124	5620	21.61	23.50	17.50	14.50	20.50	17.50	20.50	17.50	20.88	23.50	18.00	
	132	5660	21.72	23.50	17.50	14.50	20.50	17.50	20.50	17.50	20.75	23.50	18.00	
	120	5640	20.88	23.00	17.50	14.50	20.50	Not Required	17.50	20.50	20.78	23.00	18.00	
	144	5720	21.86	23.50	17.50	14.50	20.50	17.50	20.50	17.50	20.90	23.50	18.00	
802.11a+HT20 MCS0	100	5600	20.57	22.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	22.50	18.00	100.00
	116	5680	20.57	22.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	22.50	18.00	
	124	5620	20.62	22.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	22.50	18.00	
	132	5660	20.69	22.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	22.50	18.00	
	140	5700	19.43	22.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	22.50	18.00	
	144	5720	20.84	23.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	23.50	18.00	
802.11a+HT40 MCS0	102	5510	19.59	21.50	17.50	14.50	20.50	17.50	20.50	17.50	21.50	21.50	18.00	100.00
	128	5650	19.71	21.50	17.50	14.50	20.50	17.50	20.50	17.50	21.50	21.50	18.00	
	134	5670	19.72	21.50	17.50	14.50	20.50	17.50	20.50	17.50	21.50	21.50	18.00	
	142	5710	19.78	21.50	17.50	14.50	20.50	17.50	20.50	17.50	21.50	21.50	18.00	
	100	5600	20.57	22.50	17.50	14.50	20.50	17.50	20.50	17.50	20.50	22.50	18.00	
	118	5680	20.65	22.50	1									



Standalone

BT BR/EDR Ant15

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.17	13.90	14.02	17.00
	CH 39	2441	16.66	14.37	14.39	17.00
	CH 78	2480	15.84	13.19	13.14	17.00

BT BR/EDR Ant16

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.51	14.42	13.85	17.00
	CH 39	2441	16.66	14.21	13.82	17.00
	CH 78	2480	15.57	11.68	11.32	17.00

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	4.85
	CH 19	2440	5.82
	CH 39	2480	4.10
Tune-up Limit			6

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	4.47
	CH 19	2440	5.06
	CH 39	2480	4.02
Tune-up Limit			6

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	4.76
	CH 19	2440	5.73
	CH 39	2480	3.78
Tune-up Limit			6.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	4.50
	CH 19	2440	5.17
	CH 39	2480	3.63
Tune-up Limit			6.00

Simultaneous

BT BR/EDR Ant15

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	9.93			11.00
	CH 39	2441	10.07	Not Required	Not Required	11.00
	CH 78	2480	9.56			11.00

BT BR/EDR Ant16

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	10.08			11.00
	CH 39	2441	10.11	Not Required	Not Required	11.00
	CH 78	2480	9.49			11.00