



SPORTEL LABS

Part 27Q Band 42_Ant 3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-tables for Channel, Channel, and Channel.

FullDefault Power Mode

Part 27Q_Band 42_Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-tables for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 6

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-tables for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-tables for Channel, Channel, and Channel.



n26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.98	23.12	23.10	24.0	0.0	
20	PI2 BPSK	1	53	22.99	23.08	22.99			
20	PI2 BPSK	1	104	22.93	22.98	22.88			
20	PI2 BPSK	50	0	22.99	23.11	23.03	24.0	0.0	
20	PI2 BPSK	50	28	22.96	23.03	23.00	24.0	0.0	
20	PI2 BPSK	50	56	22.93	23.06	23.00	24.0	0.0	
20	PI2 BPSK	100	0	22.97	23.05	23.02	24.0	0.0	
20	QPSK	1	1	23.12	23.18	23.05	24.0	0.0	
20	QPSK	1	53	22.89	23.02	22.87			
20	QPSK	1	104	22.87	22.92	22.83			
20	QPSK	50	0	22.95	23.07	22.94	24.0	0.0	
20	QPSK	50	28	23.07	23.11	23.03	24.0	0.0	
20	QPSK	50	56	22.90	23.04	22.92	24.0	0.0	
20	QPSK	100	0	22.95	23.05	23.04	24.0	0.0	
20	16QAM	1	1	22.99	23.11	23.07	24.0	0.0	
20	64QAM	1	1	21.54	21.68	21.56	22.5	1.5	
20	256QAM	1	1	20.03	20.07	19.99	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.88	23.09	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.03	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.05	23.03	24.0	0.0	

n26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.71	22.81	22.80	24.0	0.0	
20	PI2 BPSK	1	53	22.76	22.81	22.77			
20	PI2 BPSK	1	104	22.61	22.68	22.53			
20	PI2 BPSK	50	0	22.82	22.88	22.78	24.0	0.0	
20	PI2 BPSK	50	28	22.76	22.79	22.74	24.0	0.0	
20	PI2 BPSK	50	56	22.67	22.75	22.71	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.83	22.81	24.0	0.0	
20	QPSK	1	1	22.83	22.91	22.87	24.0	0.0	
20	QPSK	1	53	22.69	22.63	22.61			
20	QPSK	1	104	22.65	22.74	22.61			
20	QPSK	50	0	22.72	22.78	22.67	24.0	0.0	
20	QPSK	50	28	22.72	22.87	22.61	24.0	0.0	
20	QPSK	50	56	22.65	22.68	22.61	24.0	0.0	
20	QPSK	100	0	22.71	22.77	22.63	24.0	0.0	
20	16QAM	1	1	22.50	22.60	22.56	24.0	0.0	
20	64QAM	1	1	21.00	21.07	20.99	22.0	2.0	
20	256QAM	1	1	19.84	19.85	19.84	20.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.76	22.78	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.77	22.80	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.70	22.83	22.74	24.0	0.0	



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				51600.2	51600	51699.8			
40	PI2 BPSK	1	1	22.51	22.53	22.52	24.0	0.0	
40	PI2 BPSK	1	53	22.50	22.53	22.43			
40	PI2 BPSK	1	104	22.27	22.36	22.30			
40	PI2 BPSK	50	0	21.97	22.12	22.03	23.5	0.5	
40	PI2 BPSK	50	28	22.38	22.52	22.37	24.0	0.0	
40	PI2 BPSK	50	56	21.99	22.05	21.93	23.5	0.5	
40	PI2 BPSK	100	0	22.10	22.11	22.10			
40	QPSK	1	1	22.50	22.60	22.57			
40	QPSK	1	53	22.45	22.50	22.38	24.0	0.0	
40	QPSK	1	104	22.19	22.30	22.16			
40	QPSK	50	0	21.93	21.94	21.91			
40	QPSK	50	28	22.46	22.51	22.38	24.0	0.0	
40	QPSK	50	56	21.97	21.98	21.96			
40	QPSK	100	0	21.98	21.98	21.98			
40	16QAM	1	1	19.83	19.77	19.62	21.5	2.5	
40	256QAM	1	1	18.08	18.21	18.18	19.5	4.5	
Channel									
Frequency (MHz)				51700.2	51600	52099.8			
30	QPSK	1	1	22.56	22.55	22.54	24.0	0.0	
Channel									
Frequency (MHz)				51600.4	516000	52149.6			
25	QPSK	1	1	22.51	22.54	22.52	24.0	0.0	
Channel									
Frequency (MHz)				516000	516000	522000			
20	QPSK	1	1	22.48	22.47	22.50	24.0	0.0	
Channel									
Frequency (MHz)				51500.2	516000	52249.8			
15	QPSK	1	1	22.53	22.56	22.56	24.0	0.0	
Channel									
Frequency (MHz)				51500.4	516000	52299.6			
10	QPSK	1	1	22.54	22.45	22.44	24.0	0.0	
Channel									
Frequency (MHz)				514000	516000	523000			
5	QPSK	1	1	22.51	22.48	22.43	24.0	0.0	

n38_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				51600.2	516000	51699.8			
40	PI2 BPSK	1	1	21.05	21.20	21.16	22.0	0.0	
40	PI2 BPSK	1	53	21.16	21.27	21.21			
40	PI2 BPSK	1	104	20.97	21.02	20.96			
40	PI2 BPSK	50	0	20.88	20.90	20.83	21.5	0.5	
40	PI2 BPSK	50	28	20.96	21.11	21.06	22.0	0.0	
40	PI2 BPSK	50	56	20.75	20.82	20.71	21.5	0.5	
40	PI2 BPSK	100	0	20.71	20.84	20.76			
40	QPSK	1	1	21.23	21.28	21.27			
40	QPSK	1	53	21.13	21.22	21.09	22.0	0.0	
40	QPSK	1	104	21.16	21.18	21.07			
40	QPSK	50	0	20.27	20.38	20.33			
40	QPSK	50	28	21.04	21.12	21.07	22.0	0.0	
40	QPSK	50	56	20.12	20.21	20.06			
40	QPSK	100	0	20.30	20.39	20.22	21.0	1.0	
40	16QAM	1	1	18.37	18.47	18.38	21.0	1.0	
40	16QAM	1	1	18.32	18.46	18.41	19.5	2.5	
40	256QAM	1	1	17.07	17.12	17.05	17.5	4.5	
Channel									
Frequency (MHz)				51700.2	516000	52099.8			
30	QPSK	1	1	21.13	21.27	21.13	22.0	0.0	
Channel									
Frequency (MHz)				51600.4	516000	52149.6			
25	QPSK	1	1	21.19	21.19	21.25	22.0	0.0	
Channel									
Frequency (MHz)				516000	516000	522000			
20	QPSK	1	1	21.15	21.13	21.21	22.0	0.0	
Channel									
Frequency (MHz)				51500.2	516000	52249.8			
15	QPSK	1	1	21.14	21.23	21.16	22.0	0.0	
Channel									
Frequency (MHz)				51500.4	516000	52299.6			
10	QPSK	1	1	21.19	21.27	21.14	22.0	0.0	
Channel									
Frequency (MHz)				514000	516000	523000			
5	QPSK	1	1	21.22	21.20	21.25	22.0	0.0	

n41_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50500.2	51699.8	526000			
100	PI2 BPSK	1	1	22.64	22.75	22.64			
100	PI2 BPSK	1	137	22.51	22.60	22.62	24.0	0.0	
100	PI2 BPSK	1	271	22.48	22.54	22.48			
100	PI2 BPSK	135	0	22.23	22.33	22.29	23.5	0.5	
100	PI2 BPSK	135	69	22.62	22.66	22.58	24.0	0.0	
100	PI2 BPSK	135	138	22.04	22.08	21.93	23.5	0.5	
100	PI2 BPSK	270	0	22.08	22.13	22.02			
100	QPSK	1	1	22.71	22.82	22.86			
100	QPSK	1	137	22.47	22.56	22.42	24.0	0.0	
100	QPSK	1	271	22.30	22.39	22.32			
100	QPSK	135	0	21.94	21.91	21.90			
100	QPSK	135	69	22.67	22.68	22.65	24.0	0.0	
100	QPSK	135	138	21.48	21.58	21.51			
100	QPSK	270	0	21.94	21.93	21.92			
100	16QAM	1	1	21.94	21.95	21.89	23.0	1.0	
100	16QAM	1	1	19.76	19.86	19.85	21.5	2.5	
100	256QAM	1	1	18.53	18.56	18.48	19.5	4.5	
Channel									
Frequency (MHz)				50600.2	51699.8	52699.8			
90	QPSK	1	1	22.58	22.71	22.63	24.0	0.0	
Channel									
Frequency (MHz)				50700.4	51699.8	52799.6			
80	QPSK	1	1	22.57	22.71	22.59	24.0	0.0	
Channel									
Frequency (MHz)				50600.2	51699.8	531000			
70	QPSK	1	1	22.70	22.78	22.52	24.0	0.0	
Channel									
Frequency (MHz)				50500.2	51699.8	53199.8			
60	QPSK	1	1	22.68	22.75	22.51	24.0	0.0	
Channel									
Frequency (MHz)				50500.4	51699.8	53299.6			
50	QPSK	1	1	22.59	22.72	22.51	24.0	0.0	
Channel									
Frequency (MHz)				50200.2	51699.8	534000			
40	QPSK	1	1	22.57	22.78	22.51	24.0	0.0	
Channel									
Frequency (MHz)				50200.4	51699.8	53499.6			
35	QPSK	1	1	22.55	22.72	22.49	24.0	0.0	
Channel									
Frequency (MHz)				50200.2	51699.8	53599.8			
30	QPSK	1	1	22.58	22.78	22.59	24.0	0.0	
Channel									
Frequency (MHz)				50100.4	51699.8	53699.6			
20	QPSK	1	1	22.67	22.78	22.60	24.0	0.0	
Channel									
Frequency (MHz)				50000.2	51699.8	53799.8			
15	QPSK	1	1	22.60	22.89	22.51	24.0	0.0	
Channel									
Frequency (MHz)				50000.2	51699.8	537000			
10	QPSK	1	1	22.63	22.73	22.52	24.0	0.0	



n41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.00	21.14	20.93				
100	PI2 BPSK	1	137	20.78	20.83	20.51	22.0	0.0		
100	PI2 BPSK	1	211	20.67	20.73	20.47				
100	PI2 BPSK	135	0	20.73	20.74	20.41	21.5	0.5		
100	PI2 BPSK	135	69	20.77	20.91	20.69	22.0	0.0		
100	PI2 BPSK	135	138	20.38	20.53	20.31	21.5	0.5		
100	PI2 BPSK	270	0	20.53	20.59	20.26				
100	QPSK	1	1	21.07	21.19	20.98				
100	QPSK	1	137	20.71	20.85	20.60	22.0	0.0		
100	QPSK	1	211	20.88	20.71	20.48				
100	QPSK	135	0	20.22	20.26	19.98				
100	QPSK	135	69	20.77	20.90	20.68	22.0	0.0		
100	QPSK	135	138	19.94	19.99	19.66				
100	QPSK	270	0	19.94	20.05	19.70	21.0	1.0		
100	16QAM	1	1	20.30	20.23	19.90	21.0	1.0		
100	16QAM	1	1	18.48	18.51	18.30	19.5	2.5		
100	256QAM	1	1	17.13	17.18	16.96	17.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.03	21.16	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.95	21.15	20.75	22.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.01	21.17	20.90	22.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.92	21.10	20.75	22.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.92	21.13	20.76	22.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.01	21.10	20.87	22.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	20.98	21.13	20.78	22.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.03	21.08	20.75	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.03	21.07	20.84	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.93	21.05	20.84	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.02	21.13	20.81	22.0	0.0		

Part270_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	20.71	21.04	20.91				
100	PI2 BPSK	1	137	20.66	21.06	20.94	22.0	0.0		
100	PI2 BPSK	1	211	20.73	21.06	20.92				
100	PI2 BPSK	135	0	20.65	21.06	21.01	22.0	0.0		
100	PI2 BPSK	135	69	20.69	21.02	20.89	22.0	0.0		
100	PI2 BPSK	135	138	20.67	21.01	20.86	22.0	0.0		
100	PI2 BPSK	270	0	20.67	21.02	20.91				
100	QPSK	1	1	20.75	21.07	20.98				
100	QPSK	1	137	20.56	20.97	20.84	22.0	0.0		
100	QPSK	1	211	20.68	21.05	20.96				
100	QPSK	135	0	19.92	20.21	20.05				
100	QPSK	135	69	20.65	20.98	20.95	22.0	0.0		
100	QPSK	135	138	19.93	20.37	20.26				
100	QPSK	270	0	19.89	20.24	20.18	21.0	1.0		
100	16QAM	1	1	18.81	18.98	18.88	21.0	1.0		
100	16QAM	1	1	18.34	18.73	18.70	19.5	2.5		
100	256QAM	1	1	17.34	17.74	17.63	18.0	4.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.65	20.99	20.81	22.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.65	20.94	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.62	20.95	20.92	22.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.64	21.06	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.63	21.01	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.60	21.05	20.83	22.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.71	20.92	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.65	20.98	20.92	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.68	20.99	20.82	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.62	20.94	20.84	22.0	0.0		

Part270(HPUE)_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.49	23.03	22.87				
100	PI2 BPSK	1	137	22.36	23.01	22.84	24.0	0.0		
100	PI2 BPSK	1	211	22.36	22.92	22.72				
100	PI2 BPSK	135	0	22.44	22.98	22.82	23.5	0.5		
100	PI2 BPSK	135	69	22.39	23.01	22.82	24.0	0.0		
100	PI2 BPSK	135	138	22.26	22.89	22.72	23.5	0.5		
100	PI2 BPSK	270	0	22.37	22.97	22.73				
100	QPSK	1	1	22.48	23.06	22.91				
100	QPSK	1	137	22.22	22.83	22.66	24.0	0.0		
100	QPSK	1	211	22.41	22.96	22.77				
100	QPSK	135	0	21.98	22.19	21.96				
100	QPSK	135	69	22.30	22.92	22.76	24.0	0.0		
100	QPSK	135	138	21.95	22.10	21.85				
100	QPSK	270	0	21.97	22.08	21.94	23.0	1.0		
100	16QAM	1	1	21.40	21.95	21.73	23.0	1.0		
100	16QAM	1	1	19.96	20.58	20.37	21.5	2.5		
100	256QAM	1	1	19.28	19.82	19.60	20.0	4.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.41	22.99	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.48	22.96	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.43	22.98	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.38	22.93	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.44	22.93	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.47	23.04	22.88	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.45	22.99	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.48	22.98	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.44	23.03	22.89	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.47	23.05	22.78	24.0	0.0		



Part270_n77_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3760	3840	3930		
100	PI2 BPSK	1	1	23.12	23.57	23.56		
100	PI2 BPSK	1	137	23.18	23.59	23.48	24.0	0.0
100	PI2 BPSK	1	271	23.14	23.53	23.40		
100	PI2 BPSK	135	0	23.22	23.56	23.50	24.0	0.0
100	PI2 BPSK	135	69	23.25	23.62	23.57	24.0	0.0
100	PI2 BPSK	135	138	23.21	23.56	23.46	24.0	0.0
100	PI2 BPSK	270	0	23.17	23.53	23.47		
100	QPSK	1	1	23.25	23.63	23.56		
100	QPSK	1	137	23.11	23.56	23.41	24.0	0.0
100	QPSK	1	271	23.07	23.56	23.46		
100	QPSK	135	0	23.15	23.50	23.45		
100	QPSK	135	69	23.20	23.62	23.48	24.0	0.0
100	QPSK	135	138	23.21	23.58	23.54	24.0	0.0
100	QPSK	270	0	23.22	23.53	23.50	24.0	0.0
100	16QAM	1	1	22.71	23.06	22.93	23.5	0.5
100	16QAM	1	1	21.98	22.04	21.99	22.5	1.5
Channel								
Frequency (MHz)								
				3745.02	3840	3934.98		
90	QPSK	1	1	23.14	23.49	23.03	24.0	0.0
Channel								
Frequency (MHz)								
				649.334	656000	662666		
80	QPSK	1	1	23.19	23.56	23.46	24.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	23.15	23.58	23.43	24.0	0.0
Channel								
Frequency (MHz)								
				648968	656000	663332		
60	QPSK	1	1	23.02	23.49	23.43	24.0	0.0
Channel								
Frequency (MHz)								
				3728.01	3840	3943.99		
50	QPSK	1	1	23.17	23.59	23.41	24.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	23.14	23.62	23.48	24.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	23.27	23.57	23.42	24.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	23.01	23.40	23.03	24.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	23.15	23.51	23.43	24.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	23.14	23.60	23.40	24.0	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)								
				3790	3840	3930		
100	PI2 BPSK	1	1	26.07	26.40	26.34		
100	PI2 BPSK	1	137	26.12	26.43	26.39	27.0	0.0
100	PI2 BPSK	1	271	25.88	26.33	26.21		
100	PI2 BPSK	135	0	25.96	26.37	26.28	27.0	0.0
100	PI2 BPSK	135	69	26.09	26.43	26.37	27.0	0.0
100	PI2 BPSK	135	138	26.02	26.35	26.20	27.0	0.0
100	PI2 BPSK	270	0	26.26	26.40	26.25		
100	QPSK	1	1	26.12	26.47	26.38		
100	QPSK	1	137	26.01	26.38	26.34	27.0	0.0
100	QPSK	1	271	26.03	26.43	26.32		
100	QPSK	135	0	26.01	26.40	26.27		
100	QPSK	135	69	26.05	26.44	26.34	27.0	0.0
100	QPSK	135	138	25.99	26.41	26.29		
100	QPSK	270	0	26.07	26.41	26.33	27.0	0.0
100	16QAM	1	1	26.02	26.44	26.30	27.0	0.0
100	16QAM	1	1	24.33	24.73	24.59	25.0	2.0
100	256QAM	1	1	22.89	23.27	23.26	23.5	3.5
Channel								
Frequency (MHz)								
				648668	656000	664332		
90	QPSK	1	1	25.97	26.36	26.27	27.0	0.0
Channel								
Frequency (MHz)								
				648334	656000	662666		
80	QPSK	1	1	26.10	26.34	26.29	27.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	663000		
70	QPSK	1	1	25.09	26.38	26.25	27.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	663332		
60	QPSK	1	1	23.07	26.42	26.28	27.0	0.0
Channel								
Frequency (MHz)								
				3728.01	3840	3943.99		
50	QPSK	1	1	25.99	26.37	26.37	27.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	26.00	26.41	26.37	27.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	26.07	26.37	26.35	27.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	26.02	26.35	26.37	27.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	26.02	26.42	26.31	27.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	26.08	26.33	26.36	27.0	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)								
				3790	3840	3930		
100	PI2 BPSK	1	1	22.50	22.84	22.85		
100	PI2 BPSK	1	137	22.42	22.89	22.70	24.0	0.0
100	PI2 BPSK	1	271	22.08	22.41	22.37		
100	PI2 BPSK	135	0	22.45	22.78	22.83	24.0	0.0
100	PI2 BPSK	135	69	22.31	22.81	22.87	24.0	0.0
100	PI2 BPSK	135	138	22.25	22.47	22.50	24.0	0.0
100	PI2 BPSK	270	0	22.38	22.83	22.70		
100	QPSK	1	1	22.07	22.87	22.97		
100	QPSK	1	137	22.41	22.86	22.81	24.0	0.0
100	QPSK	1	271	22.09	22.38	22.33		
100	QPSK	135	0	22.48	22.73	22.81		
100	QPSK	135	69	22.41	22.64	22.63	24.0	0.0
100	QPSK	135	138	22.21	22.45	22.45		
100	QPSK	270	0	22.40	22.64	22.69	24.0	0.0
100	16QAM	1	1	22.32	22.56	22.57	24.0	0.0
100	16QAM	1	1	22.01	22.22	22.28	23.0	1.0
100	256QAM	1	1	20.17	20.49	20.57	21.0	3.0
Channel								
Frequency (MHz)								
				648668	656000	664332		
90	QPSK	1	1	22.48	22.77	22.85	24.0	0.0
Channel								
Frequency (MHz)								
				648334	656000	662666		
80	QPSK	1	1	22.50	22.74	22.85	24.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	663000		
70	QPSK	1	1	22.48	22.75	22.95	24.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	663332		
60	QPSK	1	1	22.24	22.72	22.87	24.0	0.0
Channel								
Frequency (MHz)								
				3728.01	3840	3943.99		
50	QPSK	1	1	22.47	22.83	22.82	24.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	22.50	22.86	22.93	24.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	22.44	22.83	22.94	24.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	22.53	22.75	22.82	24.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	22.42	22.82	22.90	24.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	22.44	22.73	22.80	24.0	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)								
3750 3840 3930								
100	PI2 BPSK	1	1	25.28	25.84	25.64		
100	PI2 BPSK	1	137	25.24	25.83	25.64	27.0	0.0
100	PI2 BPSK	1	271	25.20	25.72	25.48		
100	PI2 BPSK	135	0	25.10	25.70	25.54	27.0	0.0
100	PI2 BPSK	135	69	25.23	25.83	25.67	27.0	0.0
100	PI2 BPSK	135	138	25.08	25.66	25.54	27.0	0.0
100	PI2 BPSK	270	0	25.28	25.77	25.63		
100	QPSK	1	1	25.34	25.88	25.66		
100	QPSK	1	137	25.22	25.83	25.58	27.0	0.0
100	QPSK	1	271	25.25	25.79	25.64		
100	QPSK	135	0	25.08	25.23	25.01		
100	QPSK	135	69	25.20	25.85	25.68	27.0	0.0
100	QPSK	135	138	24.89	25.18	25.00		
100	QPSK	270	0	24.91	25.22	25.05	26.5	0.0
100	16QAM	1	1	24.79	25.33	25.19	26.5	0.0
100	16QAM	1	1	23.13	23.53	23.33	26.0	2.0
100	256QAM	1	1	21.43	22.06	21.81	23.0	4.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
90	QPSK	1	1	25.20	25.81	25.63	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
80	QPSK	1	1	25.24	25.73	25.51	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
70	QPSK	1	1	25.33	25.73	25.52	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
60	QPSK	1	1	25.32	25.76	25.54	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
50	QPSK	1	1	25.21	25.81	25.58	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
40	QPSK	1	1	25.33	25.73	25.51	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
30	QPSK	1	1	25.29	25.85	25.64	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
20	QPSK	1	1	25.29	25.75	25.58	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
15	QPSK	1	1	25.20	25.77	25.56	27.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
10	QPSK	1	1	25.19	25.81	25.52	27.0	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)								
3750 3840 3930								
100	PI2 BPSK	1	1	20.09	20.40	20.61		
100	PI2 BPSK	1	137	20.10	20.43	20.51	21.0	0.0
100	PI2 BPSK	1	271	20.10	20.44	20.53		
100	PI2 BPSK	135	0	20.20	20.37	20.64	21.0	0.0
100	PI2 BPSK	135	69	20.11	20.46	20.53	21.0	0.0
100	PI2 BPSK	135	138	20.18	20.38	20.81	21.0	0.0
100	PI2 BPSK	270	0	20.11	20.39	20.60		
100	QPSK	1	1	20.21	20.50	20.66		
100	QPSK	1	137	20.09	20.39	20.60	21.0	0.0
100	QPSK	1	271	20.16	20.39	20.56		
100	QPSK	135	0	20.11	20.37	20.53		
100	QPSK	135	69	20.17	20.45	20.60	21.0	0.0
100	QPSK	135	138	20.08	20.39	20.58		
100	QPSK	270	0	20.20	20.46	20.50	21.0	0.0
100	16QAM	1	1	20.15	20.48	20.57	21.0	0.0
100	16QAM	1	1	19.35	19.76	19.81	21.0	0.0
100	256QAM	1	1	17.99	18.40	18.39	19.5	1.5
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
90	QPSK	1	1	20.16	20.48	20.53	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
80	QPSK	1	1	20.12	20.43	20.64	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
70	QPSK	1	1	20.15	20.43	20.57	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
60	QPSK	1	1	20.15	20.44	20.53	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
50	QPSK	1	1	20.19	20.43	20.51	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
40	QPSK	1	1	20.08	20.47	20.57	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
30	QPSK	1	1	20.18	20.36	20.57	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
20	QPSK	1	1	20.11	20.47	20.55	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
15	QPSK	1	1	20.14	20.47	20.64	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
10	QPSK	1	1	20.06	20.36	20.57	21.0	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)								
3750 3840 3930								
100	PI2 BPSK	1	1	22.07	22.36	22.37		
100	PI2 BPSK	1	137	22.01	22.43	22.44	23.0	0.0
100	PI2 BPSK	1	271	22.13	22.46	22.44		
100	PI2 BPSK	135	0	21.71	22.06	22.05	22.5	0.5
100	PI2 BPSK	135	69	22.05	22.44	22.42	23.0	0.0
100	PI2 BPSK	135	138	21.72	22.12	22.16	22.5	0.5
100	PI2 BPSK	270	0	21.73	22.15	22.16		
100	QPSK	1	1	22.03	22.46	22.51		
100	QPSK	1	137	21.94	22.33	22.36	23.0	0.0
100	QPSK	1	271	21.96	22.32	22.41		
100	QPSK	135	0	21.20	21.59	21.87		
100	QPSK	135	69	22.01	22.36	22.46	23.0	0.0
100	QPSK	135	138	21.30	21.63	21.68		
100	QPSK	270	0	21.16	21.61	21.71	22.0	1.0
100	16QAM	1	1	21.31	21.65	21.63	22.0	1.0
100	16QAM	1	1	19.35	19.76	19.81	21.0	2.0
100	256QAM	1	1	17.99	18.40	18.39	19.0	4.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
90	QPSK	1	1	21.93	22.29	22.37	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
80	QPSK	1	1	21.92	22.29	22.48	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
70	QPSK	1	1	22.00	22.29	22.42	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
60	QPSK	1	1	21.91	22.36	22.48	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
50	QPSK	1	1	21.92	22.26	22.38	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
40	QPSK	1	1	21.89	22.29	22.37	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
30	QPSK	1	1	21.98	22.26	22.36	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
20	QPSK	1	1	21.84	22.34	22.37	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
15	QPSK	1	1	21.99	22.28	22.40	23.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
10	QPSK	1	1	21.95	22.30	22.45	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3750								
100	PI2 BPSK	1	1	19.26				
100	PI2 BPSK	1	137	19.27			20.0	0.0
100	PI2 BPSK	1	271	19.24				
100	PI2 BPSK	135	0	19.19			19.5	0.5
100	PI2 BPSK	135	69	19.21			20.0	0.0
100	PI2 BPSK	135	138	19.18			19.5	0.5
100	PI2 BPSK	270	0	19.24				
100	QPSK	1	1	19.29				
100	QPSK	1	137	18.84			20.0	0.0
100	QPSK	1	271	18.83				
100	QPSK	135	0	18.12				
100	QPSK	135	69	18.72			20.0	0.0
100	QPSK	135	138	18.05				
100	QPSK	270	0	17.98			18.0	1.0
100	16QAM	1	1	18.29			19.0	1.0
100	16QAM	1	1	18.72			18.0	2.0
100	256QAM	1	1	18.88			17.0	3.0
Channel								
Frequency (MHz)								
3745.02								
90	QPSK	1	1	19.27	19.22	19.16	20.0	0.0
Channel								
Frequency (MHz)								
3745.01								
80	QPSK	1	1	19.16	19.23	19.22	20.0	0.0
Channel								
Frequency (MHz)								
649000								
70	QPSK	1	1	19.25	19.16	19.27	20.0	0.0
Channel								
Frequency (MHz)								
648668								
80	QPSK	1	1	3750.02	3750	3749.98		
Channel								
Frequency (MHz)								
3725.01								
50	QPSK	1	1	19.15	19.18	19.16	20.0	0.0
Channel								
Frequency (MHz)								
3725.01								
40	QPSK	1	1	19.25	19.17	19.22	20.0	0.0
Channel								
Frequency (MHz)								
647668								
30	QPSK	1	1	19.16	19.26	19.16	20.0	0.0
Channel								
Frequency (MHz)								
647334								
20	QPSK	1	1	3710.01	3750	3749.99		
Channel								
Frequency (MHz)								
647168								
15	QPSK	1	1	3707.52	3750	3749.48		
Channel								
Frequency (MHz)								
647334								
10	QPSK	1	1	19.20	19.23	19.16	20.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3750								
100	PI2 BPSK	1	1	21.05				
100	PI2 BPSK	1	137	21.07			22.0	0.0
100	PI2 BPSK	1	271	21.03				
100	PI2 BPSK	135	0	21.08			21.5	0.5
100	PI2 BPSK	135	69	21.07			22.0	0.0
100	PI2 BPSK	135	138	21.04			21.5	0.5
100	PI2 BPSK	270	0	21.05				
100	QPSK	1	1	21.09				
100	QPSK	1	137	20.79			22.0	0.0
100	QPSK	1	271	20.41				
100	QPSK	135	0	20.95				
100	QPSK	135	69	20.82			22.0	0.0
100	QPSK	135	138	19.72				
100	QPSK	270	0	18.94			21.0	1.0
100	16QAM	1	1	20.12			21.0	1.0
100	16QAM	1	1	18.42			19.5	2.5
100	256QAM	1	1	17.89			18.0	4.0
Channel								
Frequency (MHz)								
3745.02								
90	QPSK	1	1	21.00	21.07	20.95	22.0	0.0
Channel								
Frequency (MHz)								
3745.01								
80	QPSK	1	1	21.05	20.99	20.97	22.0	0.0
Channel								
Frequency (MHz)								
649000								
70	QPSK	1	1	20.98	21.02	20.94	22.0	0.0
Channel								
Frequency (MHz)								
648668								
80	QPSK	1	1	3750.02	3750	3749.98		
Channel								
Frequency (MHz)								
3725.01								
50	QPSK	1	1	20.97	21.00	21.05	22.0	0.0
Channel								
Frequency (MHz)								
3725.01								
40	QPSK	1	1	20.97	20.98	21.06	22.0	0.0
Channel								
Frequency (MHz)								
647668								
30	QPSK	1	1	21.08	20.97	21.03	22.0	0.0
Channel								
Frequency (MHz)								
647334								
20	QPSK	1	1	3710.01	3750	3749.99		
Channel								
Frequency (MHz)								
647168								
15	QPSK	1	1	3707.52	3750	3749.48		
Channel								
Frequency (MHz)								
647334								
10	QPSK	1	1	20.95	20.95	21.00	22.0	0.0

Part270_n78_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3750								
100	PI2 BPSK	1	1	22.88				
100	PI2 BPSK	1	137	22.96			24.0	0.0
100	PI2 BPSK	1	271	23.04				
100	PI2 BPSK	135	0	22.95			24.0	0.0
100	PI2 BPSK	135	69	22.96			24.0	0.0
100	PI2 BPSK	135	138	23.03			24.0	0.0
100	PI2 BPSK	270	0	22.92				
100	QPSK	1	1	23.11				
100	QPSK	1	137	23.05			24.0	0.0
100	QPSK	1	271	23.03				
100	QPSK	135	0	22.95				
100	QPSK	135	69	23.04			24.0	0.0
100	QPSK	135	138	23.01				
100	QPSK	270	0	23.01			24.0	0.0
100	16QAM	1	1	22.95			24.0	0.0
100	16QAM	1	1	21.88			22.5	1.5
100	256QAM	1	1	20.85			21.5	2.5
Channel								
Frequency (MHz)								
3745.02								
90	QPSK	1	1	23.07	23.02	23.02	24.0	0.0
Channel								
Frequency (MHz)								
3745.01								
80	QPSK	1	1	23.03	23.01	23.00	24.0	0.0
Channel								
Frequency (MHz)								
649000								
70	QPSK	1	1	23.05	23.03	23.07	24.0	0.0
Channel								
Frequency (MHz)								
648668								
80	QPSK	1	1	3750.02	3750	3749.98		
Channel								
Frequency (MHz)								
3725.01								
50	QPSK	1	1	23.09	23.02	23.06	24.0	0.0
Channel								
Frequency (MHz)								
3725.01								
40	QPSK	1	1	22.98	23.05	23.07	24.0	0.0
Channel								
Frequency (MHz)								
647668								
30	QPSK	1	1	23.02	23.06	23.08	24.0	0.0
Channel								
Frequency (MHz)								
647334								
20	QPSK	1	1	3710.01	3750	3749.99		
Channel								
Frequency (MHz)								
647168								
15	QPSK	1	1	3707.52	3750	3749.48		
Channel								
Frequency (MHz)								
647334								
10	QPSK	1	1	23.03	23.10	23.09	24.0	0.0



Part270_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	65000	3750	3750			
100	P2BPSK	1	137	20,26	20,26	20,26	21.0	0.0	
100	P2BPSK	1	211	20,13	20,13	20,13			
100	P2BPSK	135	0	20,22	20,22	20,22	21.0	0.0	
100	P2BPSK	135	69	20,27	20,27	20,27	21.0	0.0	
100	P2BPSK	135	138	20,23	20,23	20,23	21.0	0.0	
100	P2BPSK	203	0	20,20	20,20	20,20			
100	QPSK	1	1	65000	3750	3750			
100	QPSK	1	137	20,14	20,14	20,14	21.0	0.0	
100	QPSK	1	211	20,05	20,05	20,05			
100	QPSK	135	0	20,28	20,28	20,28			
100	QPSK	135	69	20,12	20,12	20,12	21.0	0.0	
100	QPSK	135	138	19,22	19,22	19,22			
100	QPSK	270	0	19,24	19,24	19,24	20.0	1.0	
100	16QAM	1	1	19,32	19,32	19,32	20.0	1.0	
100	64QAM	1	1	17,73	17,73	17,73	18.5	2.5	
100	256QAM	1	1	17,08	17,08	17,08	17.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20,36	20,26	20,29	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20,34	20,34	20,26	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20,33	20,33	20,30	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20,21	20,24	20,24	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20,35	20,28	20,31	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20,34	20,24	20,30	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20,24	20,24	20,36	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20,25	20,37	20,25	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20,33	20,23	20,33	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20,32	20,37	20,37	21.0	0.0	

Part270(HPUE)_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	65000	3750	3750			
100	P2BPSK	1	137	21,91	21,91	21,91	23.0	0.0	
100	P2BPSK	1	211	22,25	22,25	22,25			
100	P2BPSK	135	0	21,79	21,79	21,79	22.5	0.5	
100	P2BPSK	135	69	22,05	22,05	22,05	23.0	0.0	
100	P2BPSK	135	138	21,79	21,79	21,79	22.5	0.5	
100	P2BPSK	203	0	21,73	21,73	21,73			
100	QPSK	1	1	65000	3750	3750			
100	QPSK	1	137	22,25	22,25	22,25	23.0	0.0	
100	QPSK	1	211	22,19	22,19	22,19			
100	QPSK	135	0	21,47	21,47	21,47			
100	QPSK	135	69	22,32	22,32	22,32	23.0	0.0	
100	QPSK	135	138	21,36	21,36	21,36			
100	QPSK	270	0	21,41	21,41	21,41	22.0	1.0	
100	16QAM	1	1	21,33	21,33	21,33	22.0	1.0	
100	64QAM	1	1	18,68	18,68	18,68	20.5	2.5	
100	256QAM	1	1	18,20	18,20	18,20	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22,29	22,30	22,26	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22,24	22,22	22,22	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22,23	22,24	22,25	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22,21	22,21	22,21	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22,28	22,24	22,25	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22,28	22,23	22,31	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22,21	22,23	22,32	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22,23	22,30	22,32	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22,23	22,30	22,32	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22,27	22,29	22,33	23.0	0.0	



SPORTEL LABS

Part 27Q Band 42_Ant 3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Mod Ch / Freq, Power Mod Ch / Freq, Power Mod Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.

Reduced Power Mode for DSI 2

Part 27Q_Band 42_Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Mod Ch / Freq, Power Mod Ch / Freq, Power Mod Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 6

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Mod Ch / Freq, Power Mod Ch / Freq, Power Mod Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Mod Ch / Freq, Power Mod Ch / Freq, Power Mod Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.



n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	22.98	23.12	23.10	24.0	0.0	
20	P12 BPSK	1	53	22.99	23.08	22.99			
20	P12 BPSK	1	104	22.93	22.98	22.88			
20	P12 BPSK	50	0	22.99	23.11	23.03	24.0	0.0	
20	P12 BPSK	50	28	22.96	23.03	23.00	24.0	0.0	
20	P12 BPSK	50	56	22.93	23.06	23.00	24.0	0.0	
20	P12 BPSK	100	0	22.97	23.05	23.02	24.0	0.0	
20	QPSK	1	1	23.12	23.18	23.05	24.0	0.0	
20	QPSK	1	53	22.89	23.02	22.87			
20	QPSK	1	104	22.87	22.92	22.83			
20	QPSK	50	0	22.95	23.07	22.94	24.0	0.0	
20	QPSK	50	28	23.07	23.11	23.03	24.0	0.0	
20	QPSK	50	56	22.90	23.04	22.92	24.0	0.0	
20	QPSK	100	0	22.95	23.05	23.04	24.0	0.0	
20	16QAM	1	1	22.99	23.11	23.07	24.0	0.0	
20	64QAM	1	1	21.54	21.68	21.56	22.5	1.5	
20	256QAM	1	1	20.03	20.07	19.99	21.0	2.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.88	23.09	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.03	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.05	23.03	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	21.69	21.83	21.81	23.0	0.0	
20	P12 BPSK	1	53	21.77	21.78	21.83			
20	P12 BPSK	1	104	21.67	21.76	21.79			
20	P12 BPSK	50	0	21.70	21.88	21.80	23.0	0.0	
20	P12 BPSK	50	28	21.66	21.88	21.74	23.0	0.0	
20	P12 BPSK	50	56	21.65	21.80	21.75	23.0	0.0	
20	P12 BPSK	100	0	21.66	21.83	21.80	23.0	0.0	
20	QPSK	1	1	21.79	21.91	21.85	23.0	0.0	
20	QPSK	1	53	21.73	21.81	21.72			
20	QPSK	1	104	21.67	21.85	21.72			
20	QPSK	50	0	21.65	21.88	21.70	23.0	0.0	
20	QPSK	50	28	21.70	21.88	21.83	23.0	0.0	
20	QPSK	50	56	21.73	21.87	21.81	23.0	0.0	
20	QPSK	100	0	21.65	21.84	21.72	23.0	0.0	
20	16QAM	1	1	21.69	21.88	21.74	23.0	0.0	
20	64QAM	1	1	21.00	21.07	20.99	22.0	1.0	
20	256QAM	1	1	19.84	19.85	19.84	20.5	2.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.65	21.79	21.84	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.77	21.87	21.81	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.66	21.82	21.75	23.0	0.0	



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				2599.02	2595	2599.98			
40	PI2 BPSK	1	1	22.51	22.53	22.52			
40	PI2 BPSK	1	53	22.50	22.53	22.43	24.0	0.0	
40	PI2 BPSK	1	104	22.27	22.36	22.30			
40	PI2 BPSK	50	0	21.97	22.12	22.03	23.5	0.5	
40	PI2 BPSK	50	28	22.38	22.52	22.37	24.0	0.0	
40	PI2 BPSK	50	56	21.99	22.05	21.93	23.5	0.5	
40	PI2 BPSK	100	0	22.10	22.11	22.10			
40	QPSK	1	1	22.50	22.60	22.57			
40	QPSK	1	53	22.45	22.50	22.38	24.0	0.0	
40	QPSK	1	104	22.19	22.30	22.16			
40	QPSK	50	0	21.93	21.94	21.91			
40	QPSK	50	28	22.46	22.51	22.38	24.0	0.0	
40	QPSK	50	56	21.97	21.46	21.36			
40	QPSK	100	0	21.92	21.95	21.92			
40	16QAM	1	1	21.38	21.48	21.38	23.0	1.0	
40	16QAM	1	1	19.83	19.77	19.62	21.5	2.5	
40	256QAM	1	1	18.08	18.21	18.18	19.5	4.5	
Channel									
Frequency (MHz)									
				5180.01	51800	52099			
30	QPSK	1	1	22.56	22.55	22.54	24.0	0.0	
Channel									
Frequency (MHz)									
				5180.04	518000	521496			
25	QPSK	1	1	22.51	22.54	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
				518000	518000	520000			
20	QPSK	1	1	22.48	22.47	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
				515002	518000	520498			
15	QPSK	1	1	22.53	22.56	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
				2577.51	2595	2612.49			
Channel									
Frequency (MHz)									
				514500	518000	520500			
10	QPSK	1	1	22.54	22.45	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
				22.51	22.48	22.43	24.0	0.0	

n38_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				2599.02	2595	2599.98			
40	PI2 BPSK	1	1	20.23	20.34	20.19			
40	PI2 BPSK	1	53	20.24	20.21	20.19	21.0	0.0	
40	PI2 BPSK	1	104	20.38	20.36	20.10			
40	PI2 BPSK	50	0	20.24	20.34	20.22	21.0	0.0	
40	PI2 BPSK	50	28	20.22	20.28	20.22	21.0	0.0	
40	PI2 BPSK	50	56	20.23	20.34	20.12	21.0	0.0	
40	PI2 BPSK	100	0	20.27	20.28	20.12			
40	QPSK	1	1	20.32	20.36	20.34			
40	QPSK	1	53	20.21	20.26	20.10	21.0	0.0	
40	QPSK	1	104	20.19	20.33	20.16			
40	QPSK	50	0	20.22	20.32	20.10			
40	QPSK	50	28	20.26	20.35	20.30	21.0	0.0	
40	QPSK	50	56	20.12	20.21	20.06			
40	QPSK	100	0	20.27	20.31	20.19	21.0	0.0	
40	16QAM	1	1	20.21	20.34	20.15	21.0	0.0	
40	16QAM	1	1	18.32	18.46	18.41	19.5	1.5	
40	256QAM	1	1	17.07	17.12	17.05	17.5	3.5	
Channel									
Frequency (MHz)									
				5170.02	518000	520999			
30	QPSK	1	1	20.20	20.30	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
				5180.04	518000	521496			
25	QPSK	1	1	20.23	20.31	20.20	21.0	0.0	
Channel									
Frequency (MHz)									
				518000	518000	520000			
20	QPSK	1	1	20.20	20.30	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
				5150.02	518000	520498			
15	QPSK	1	1	20.20	20.32	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
				2577.51	2595	2612.49			
Channel									
Frequency (MHz)									
				5145.00	518000	520500			
10	QPSK	1	1	20.22	20.35	20.14	21.0	0.0	
Channel									
Frequency (MHz)									
				20.18	20.24	20.21	21.0	0.0	

n41_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				2546.01	2592.99	2600			
100	PI2 BPSK	1	1	22.84	22.75	22.84			
100	PI2 BPSK	1	137	22.51	22.50	22.82	24.0	0.0	
100	PI2 BPSK	1	271	22.48	22.54	22.48			
100	PI2 BPSK	135	0	22.23	22.33	22.29	23.5	0.5	
100	PI2 BPSK	135	69	22.62	22.66	22.58	24.0	0.0	
100	PI2 BPSK	135	138	22.04	22.08	21.93	23.5	0.5	
100	PI2 BPSK	270	0	22.08	22.13	22.02			
100	QPSK	1	1	22.71	22.82	22.85			
100	QPSK	1	137	22.47	22.56	22.42	24.0	0.0	
100	QPSK	1	271	22.30	22.39	22.32			
100	QPSK	135	0	21.94	21.91	21.70			
100	QPSK	135	69	22.67	22.68	22.58	24.0	0.0	
100	QPSK	135	138	21.48	21.58	21.51			
100	QPSK	270	0	21.94	21.93	21.92			
100	16QAM	1	1	21.94	21.95	21.89	23.0	1.0	
100	16QAM	1	1	19.76	19.86	19.85	21.5	2.5	
100	256QAM	1	1	18.53	18.56	18.48	19.5	4.5	
Channel									
Frequency (MHz)									
				5060.02	518098	520998			
90	QPSK	1	1	22.58	22.71	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
				5072.04	518098	520998			
80	QPSK	1	1	22.57	22.71	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
				5060.02	518098	531000			
70	QPSK	1	1	22.70	22.78	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
				5060.02	518098	531998			
60	QPSK	1	1	22.08	22.75	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
				2551.02	2592.99	2604.99			
50	QPSK	1	1	22.59	22.77	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
				5027.04	518098	530000			
40	QPSK	1	1	22.57	22.78	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
				5027.04	518098	534498			
35	QPSK	1	1	22.58	22.72	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
				5020.00	518098	534998			
30	QPSK	1	1	22.11	22.92	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
				5010.04	518098	535998			
20	QPSK	1	1	22.67	22.78	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
				2593.5	2592.99	2602.48			
15	QPSK	1	1	22.60	22.89	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
				5002.02	518098	537000			
10	QPSK	1	1	22.63	22.73	22.52	24.0	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)				5020.2	51898	53696				
100	P12 BPSK	1	1	20.10	20.37	19.89				
100	P12 BPSK	1	137	20.10	20.23	19.91	21.0	0.0		
100	P12 BPSK	1	241	20.10	20.32	19.89				
100	P12 BPSK	135	0	20.05	20.23	19.88	21.0	0.0		
100	P12 BPSK	135	69	20.02	20.32	19.99	21.0	0.0		
100	P12 BPSK	135	138	19.99	20.36	19.90	21.0	0.0		
100	P12 BPSK	230	0	19.98	20.36	19.90				
100	QPSK	1	1	20.12	20.38	20.03				
100	QPSK	1	137	19.99	20.37	19.92	21.0	0.0		
100	QPSK	1	271	20.00	20.26	19.88				
100	QPSK	135	0	20.01	20.31	19.94				
100	QPSK	135	69	20.00	20.36	19.98	21.0	0.0		
100	QPSK	135	138	19.94	19.99	19.96				
100	QPSK	270	0	19.94	20.05	19.70	21.0	0.0		
100	16QAM	1	1	20.10	20.23	19.90	21.0	0.0		
100	16QAM	1	1	18.49	18.51	18.30	19.5	1.5		
100	256QAM	1	1	17.13	17.18	16.96	17.5	3.5		
Channel										
Frequency (MHz)				5020.2	51898	53696				
90	QPSK	1	1	20.06	20.24	19.99	21.0	0.0		
Channel										
Frequency (MHz)				5027.04	51898	53696				
80	QPSK	1	1	20.10	20.33	19.98	21.0	0.0		
Channel										
Frequency (MHz)				5062.02	51898	53100				
70	QPSK	1	1	20.01	20.30	19.96	21.0	0.0		
Channel										
Frequency (MHz)				5050.00	51898	53196				
60	QPSK	1	1	20.01	20.30	19.96	21.0	0.0		
Channel										
Frequency (MHz)				5051.02	51898	52614.99				
50	QPSK	1	1	19.99	20.35	19.96	21.0	0.0		
Channel										
Frequency (MHz)				5062.02	51898	53100				
40	QPSK	1	1	20.08	20.37	20.01	21.0	0.0		
Channel										
Frequency (MHz)				5027.04	51898	53498				
35	QPSK	1	1	20.00	20.24	19.91	21.0	0.0		
Channel										
Frequency (MHz)				5020.00	51898	53498				
30	QPSK	1	1	20.11	20.29	19.97	21.0	0.0		
Channel										
Frequency (MHz)				5013.04	51898	53598				
20	QPSK	1	1	20.00	20.23	19.88	21.0	0.0		
Channel										
Frequency (MHz)				5033.00	51898	5262.48				
15	QPSK	1	1	20.02	20.34	20.01	21.0	0.0		
Channel										
Frequency (MHz)				5002.02	51898	53700				
10	QPSK	1	1	20.07	20.37	19.91	21.0	0.0		

Part270_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3790	3840	3900				
100	P12 BPSK	1	1	20.71	21.04	20.91				
100	P12 BPSK	1	137	20.66	21.06	20.94	22.0	0.0		
100	P12 BPSK	1	241	20.73	21.06	20.92				
100	P12 BPSK	135	0	20.65	21.06	21.01	22.0	0.0		
100	P12 BPSK	135	69	20.62	21.02	20.89	22.0	0.0		
100	P12 BPSK	135	138	20.67	21.01	20.86	22.0	0.0		
100	P12 BPSK	230	0	20.67	21.02	20.91				
100	QPSK	1	1	20.70	21.07	20.96				
100	QPSK	1	137	20.56	20.97	20.84	22.0	0.0		
100	QPSK	1	271	20.68	21.05	20.96				
100	QPSK	135	0	19.92	20.21	20.05				
100	QPSK	135	69	20.05	20.38	20.26	22.0	0.0		
100	QPSK	135	138	19.93	20.37	20.26				
100	QPSK	270	0	19.99	20.24	20.18	21.0	1.0		
100	16QAM	1	1	18.81	18.98	18.88	21.0	1.0		
100	16QAM	1	1	18.34	18.73	18.70	19.5	2.5		
100	256QAM	1	1	17.34	17.74	17.63	18.0	4.0		
Channel										
Frequency (MHz)				64668	65000	65332				
90	QPSK	1	1	20.65	20.99	20.81	22.0	0.0		
Channel										
Frequency (MHz)				646334	65000	652696				
80	QPSK	1	1	20.65	20.94	20.89	22.0	0.0		
Channel										
Frequency (MHz)				646000	65000	653000				
70	QPSK	1	1	20.62	20.95	20.92	22.0	0.0		
Channel										
Frequency (MHz)				646968	65000	653332				
60	QPSK	1	1	20.04	21.08	20.88	22.0	0.0		
Channel										
Frequency (MHz)				3726.01	3840	3944.99				
50	QPSK	1	1	20.63	21.01	20.89	22.0	0.0		
Channel										
Frequency (MHz)				646000	65000	650000				
40	QPSK	1	1	20.60	21.05	20.83	22.0	0.0		
Channel										
Frequency (MHz)				647688	65000	654332				
30	QPSK	1	1	20.71	20.92	20.88	22.0	0.0		
Channel										
Frequency (MHz)				647334	65000	654666				
20	QPSK	1	1	20.65	20.98	20.92	22.0	0.0		
Channel										
Frequency (MHz)				3710.01	3840	3923.99				
15	QPSK	1	1	20.68	20.99	20.82	22.0	0.0		
Channel										
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	20.62	20.94	20.84	22.0	0.0		

Part270(HPUE)_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3790	3840	3900				
100	P12 BPSK	1	1	22.49	23.03	22.87				
100	P12 BPSK	1	137	22.36	23.01	22.84	24.0	0.0		
100	P12 BPSK	1	241	22.36	22.92	22.72				
100	P12 BPSK	135	0	22.44	22.98	22.82	23.5	0.5		
100	P12 BPSK	135	69	22.39	23.01	22.82	24.0	0.0		
100	P12 BPSK	135	138	22.26	22.89	22.72	23.5	0.5		
100	P12 BPSK	230	0	22.37	22.97	22.73				
100	QPSK	1	1	22.48	23.06	22.91				
100	QPSK	1	137	22.22	22.83	22.66	24.0	0.0		
100	QPSK	1	271	22.41	22.96	22.77				
100	QPSK	135	0	21.98	22.19	21.96				
100	QPSK	135	69	22.30	22.92	22.76	24.0	0.0		
100	QPSK	135	138	21.95	22.10	21.85				
100	QPSK	270	0	21.97	22.08	21.94	23.0	1.0		
100	16QAM	1	1	21.40	21.95	21.73	23.0	1.0		
100	16QAM	1	1	19.96	20.58	20.37	21.5	2.5		
100	256QAM	1	1	19.28	19.82	19.60	20.0	4.0		
Channel										
Frequency (MHz)				64668	65000	65332				
90	QPSK	1	1	22.41	22.99	22.77	24.0	0.0		
Channel										
Frequency (MHz)				646334	65000	652696				
80	QPSK	1	1	22.48	22.96	22.78	24.0	0.0		
Channel										
Frequency (MHz)				646000	65000	653000				
70	QPSK	1	1	22.43	22.98	22.87	24.0	0.0		
Channel										
Frequency (MHz)				646968	65000	653332				
60	QPSK	1	1	22.26	22.93	22.71	24.0	0.0		
Channel										
Frequency (MHz)				3726.01	3840	3944.99				
50	QPSK	1	1	22.44	22.93	22.87	24.0	0.0		
Channel										
Frequency (MHz)				646000	65000	650000				
40	QPSK	1	1	22.47	23.04	22.88	24.0	0.0		
Channel										
Frequency (MHz)				647688	65000	654332				
30	QPSK	1	1	22.45	22.99	22.87	24.0	0.0		
Channel										
Frequency (MHz)				647334	65000	654666				
20	QPSK	1	1	22.48	22.98	22.74	23.0	0.0		
Channel										
Frequency (MHz)				3710.01	3840	3923.99				
15	QPSK	1	1	22.44	23.03	22.89	24.0	0.0		
Channel										
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	22.47	23.05	22.78	24.0	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)								
				3760	3840	3930		
100	PI2 BPSK	1	1	2123	2156	2168		
100	PI2 BPSK	1	137	2125	2167	2161	22.0	0.0
100	PI2 BPSK	1	221	2125	2156	2161		
100	PI2 BPSK	135	0	2138	2167	2159	22.0	0.0
100	PI2 BPSK	135	69	2129	2162	2165	22.0	0.0
100	PI2 BPSK	135	138	2129	2169	2164	22.0	0.0
100	PI2 BPSK	220	0	2131	2155	2157		
100	QPSK	1	1	2133	2170	2169		
100	QPSK	1	137	2122	2157	2154	22.0	0.0
100	QPSK	1	271	2126	2158	2159		
100	QPSK	135	0	2125	2156	2154		
100	QPSK	135	69	2127	2164	2166	22.0	0.0
100	QPSK	135	138	2121	2161	2157		
100	QPSK	270	0	2122	2161	2159	22.0	0.0
100	16QAM	1	1	2123	2158	2162	22.0	0.0
100	16QAM	1	1	2124	2157	2162	22.0	0.0
100	256QAM	1	1	2126	2157	2166	22.0	0.0
Channel								
Frequency (MHz)								
				3745.02	3840	3934.98		
90	QPSK	1	1	2112	2133	2156	22.0	0.0
Channel								
Frequency (MHz)								
				649334	656000	662666		
80	QPSK	1	1	2113	2153	2156	22.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	2112	2150	2152	22.0	0.0
Channel								
Frequency (MHz)								
				648968	656000	663332		
60	QPSK	1	1	2112	2157	2156	22.0	0.0
Channel								
Frequency (MHz)								
				3725.01	3840	3954.99		
50	QPSK	1	1	2115	2146	2148	22.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	2120	2145	2152	22.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	2121	2152	2154	22.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	2116	2147	2148	22.0	0.0
Channel								
Frequency (MHz)								
				3707.52	3840	3972.48		
15	QPSK	1	1	2113	2158	2148	22.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	2113	2148	2147	22.0	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)								
				3760	3840	3930		
100	PI2 BPSK	1	1	2420	2450	2438		
100	PI2 BPSK	1	137	2417	2451	2448	25.0	0.0
100	PI2 BPSK	1	221	2413	2450	2444		
100	PI2 BPSK	135	0	2414	2462	2439	25.0	0.0
100	PI2 BPSK	135	69	2412	2450	2448	25.0	0.0
100	PI2 BPSK	135	138	2409	2456	2451	25.0	0.0
100	PI2 BPSK	220	0	2414	2448	2438		
100	QPSK	1	1	2424	2463	2452		
100	QPSK	1	137	2416	2460	2451	25.0	0.0
100	QPSK	1	271	2412	2457	2441		
100	QPSK	135	0	2419	2451	2449		
100	QPSK	135	69	2421	2458	2450	25.0	0.0
100	QPSK	135	138	2418	2452	2442		
100	QPSK	270	0	2416	2455	2445	25.0	0.0
100	16QAM	1	1	2414	2449	2440	25.0	0.0
100	16QAM	1	1	2416	2457	2443	25.0	0.0
100	256QAM	1	1	2289	2327	2326	23.5	1.5
Channel								
Frequency (MHz)								
				648968	656000	664332		
90	QPSK	1	1	2402	2447	2430	25.0	0.0
Channel								
Frequency (MHz)								
				648334	656000	662666		
80	QPSK	1	1	2411	2442	2430	25.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	2411	2442	2429	25.0	0.0
Channel								
Frequency (MHz)								
				648968	656000	664332		
60	QPSK	1	1	2407	2446	2428	25.0	0.0
Channel								
Frequency (MHz)								
				3725.01	3840	3954.99		
50	QPSK	1	1	2406	2446	2435	25.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	2412	2438	2430	25.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	2404	2439	2441	25.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	2401	2447	2441	25.0	0.0
Channel								
Frequency (MHz)								
				3707.52	3840	3972.48		
15	QPSK	1	1	2408	2451	2434	25.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	2412	2448	2433	25.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3760	3840	3930		
100	PI2 BPSK	1	1	2250	2284	2285		
100	PI2 BPSK	1	137	2242	2289	2270	24.0	0.0
100	PI2 BPSK	1	221	2238	2241	2237		
100	PI2 BPSK	135	0	2245	2278	2283	24.0	0.0
100	PI2 BPSK	135	69	2231	2281	2287	24.0	0.0
100	PI2 BPSK	135	138	2225	2247	2250	24.0	0.0
100	PI2 BPSK	220	0	2238	2283	2270		
100	QPSK	1	1	2257	2297	2297		
100	QPSK	1	137	2241	2286	2281	24.0	0.0
100	QPSK	1	271	2239	2238	2233		
100	QPSK	135	0	2246	2271	2281		
100	QPSK	135	69	2241	2264	2263	24.0	0.0
100	QPSK	135	138	2221	2245	2245		
100	QPSK	270	0	2240	2264	2269	24.0	0.0
100	16QAM	1	1	2232	2236	2237	24.0	0.0
100	16QAM	1	1	2251	2232	2238	24.0	1.0
100	256QAM	1	1	2017	2049	2037	21.0	3.0
Channel								
Frequency (MHz)								
				648968	656000	664332		
90	QPSK	1	1	2248	2277	2285	24.0	0.0
Channel								
Frequency (MHz)								
				648334	656000	662666		
80	QPSK	1	1	2250	2274	2285	24.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	2248	2275	2285	24.0	0.0
Channel								
Frequency (MHz)								
				648968	656000	664332		
60	QPSK	1	1	2224	2272	2287	24.0	0.0
Channel								
Frequency (MHz)								
				3725.01	3840	3954.99		
50	QPSK	1	1	2247	2283	2282	24.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	2250	2286	2293	24.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	2244	2283	2294	24.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	2253	2275	2282	24.0	0.0
Channel								
Frequency (MHz)								
				3707.52	3840	3972.48		
15	QPSK	1	1	2242	2282	2290	24.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	2244	2273	2280	24.0	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)								
100	PI2 BPSK	1	1	25.28	25.84	25.84		
100	PI2 BPSK	1	137	25.24	25.83	25.84	27.0	0.0
100	PI2 BPSK	1	271	25.20	25.72	25.48		
100	PI2 BPSK	135	0	25.10	25.70	25.54	27.0	0.0
100	PI2 BPSK	135	69	25.23	25.83	25.67	27.0	0.0
100	PI2 BPSK	135	138	25.08	25.66	25.54	27.0	0.0
100	PI2 BPSK	270	0	25.28	25.77	25.83		
100	QPSK	1	1	25.34	25.88	25.05		
100	QPSK	1	137	25.22	25.83	25.58	27.0	0.0
100	QPSK	1	271	25.25	25.79	25.84		
100	QPSK	135	0	25.08	25.23	25.01		
100	QPSK	135	69	25.20	25.85	25.68	27.0	0.0
100	QPSK	135	138	24.89	25.18	25.00		
100	QPSK	270	0	24.91	25.22	25.05	26.5	0.0
100	16QAM	1	1	24.79	25.33	25.19	26.5	0.0
100	16QAM	1	1	23.13	23.33	23.33	26.0	2.0
100	256QAM	1	1	21.43	22.06	21.81	23.0	4.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.20	25.81	25.03	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.24	25.73	25.51	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.33	25.73	25.52	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.21	25.81	25.58	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.33	25.73	25.52	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.33	25.73	25.51	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.29	25.88	25.64	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.29	25.75	25.58	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.20	25.77	25.56	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.19	25.81	25.52	27.0	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)								
100	PI2 BPSK	1	1	18.04	18.42	18.49		
100	PI2 BPSK	1	137	18.09	18.49	18.51	19.0	0.0
100	PI2 BPSK	1	271	18.11	18.56	18.59		
100	PI2 BPSK	135	0	18.12	18.42	18.55	19.0	0.0
100	PI2 BPSK	135	69	18.02	18.50	18.51	19.0	0.0
100	PI2 BPSK	135	138	18.13	18.55	18.54	19.0	0.0
100	PI2 BPSK	270	0	18.13	18.54	18.54		
100	QPSK	1	1	18.17	18.57	18.53		
100	QPSK	1	137	18.03	18.54	18.53	19.0	0.0
100	QPSK	1	271	18.04	18.54	18.56		
100	QPSK	135	0	18.11	18.44	18.49		
100	QPSK	135	69	18.15	18.53	18.58	19.0	0.0
100	QPSK	135	138	18.05	18.43	18.48		
100	QPSK	270	0	18.08	18.50	18.50	19.0	0.0
100	16QAM	1	1	18.10	18.50	18.55	19.0	0.0
100	16QAM	1	1	18.08	18.52	18.52	19.0	0.0
100	256QAM	1	1	17.99	18.40	18.39	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.10	18.54	18.61	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.02	18.42	18.52	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.04	18.55	18.52	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.10	18.58	18.52	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.06	18.45	18.61	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.08	18.46	18.54	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.13	18.47	18.57	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.15	18.55	18.52	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.03	18.46	18.49	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.09	18.52	18.52	19.0	0.0

Part270(HPUE)_n77_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.03	20.31	20.47		
100	PI2 BPSK	1	137	19.93	20.36	20.39	21.0	0.0
100	PI2 BPSK	1	271	20.03	20.33	20.43		
100	PI2 BPSK	135	0	19.99	20.33	20.38	21.0	0.0
100	PI2 BPSK	135	69	19.96	20.29	20.40	21.0	0.0
100	PI2 BPSK	135	138	19.97	20.34	20.40	21.0	0.0
100	PI2 BPSK	270	0	20.01	20.31	20.40		
100	QPSK	1	1	20.05	20.38	20.35		
100	QPSK	1	137	20.02	20.36	20.47	21.0	0.0
100	QPSK	1	271	19.98	20.28	20.44		
100	QPSK	135	0	19.98	20.31	20.37		
100	QPSK	135	69	19.95	20.27	20.44	21.0	0.0
100	QPSK	135	138	19.92	20.24	20.43		
100	QPSK	270	0	19.92	20.31	20.40	21.0	0.0
100	16QAM	1	1	20.02	20.30	20.38	21.0	0.0
100	16QAM	1	1	19.35	19.76	19.81	21.0	0.0
100	256QAM	1	1	17.99	18.40	18.39	19.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.00	20.33	20.43	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.99	20.25	20.48	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.02	20.25	20.37	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.96	20.26	20.38	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.96	20.32	20.42	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.92	20.33	20.40	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.96	20.26	20.49	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.95	20.29	20.38	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.02	20.24	20.41	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.98	20.29	20.45	21.0	0.0



Part270_n78_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	PI2 BPSK	1	1	19.26					
100	PI2 BPSK	1	137	19.27			20.0	0.0	
100	PI2 BPSK	1	271	19.24					
100	PI2 BPSK	135	0	19.19			19.5	0.5	
100	PI2 BPSK	135	69	19.21			20.0	0.0	
100	PI2 BPSK	135	138	19.16			19.5	0.5	
100	PI2 BPSK	270	0	19.24					
100	QPSK	1	1	19.29					
100	QPSK	1	137	18.84			20.0	0.0	
100	QPSK	1	271	18.83					
100	QPSK	135	0	18.12					
100	QPSK	135	69	18.72			20.0	0.0	
100	QPSK	135	138	18.05					
100	QPSK	270	0	17.98			18.0	1.0	
100	16QAM	1	1	18.29			19.0	1.0	
100	16QAM	1	1	18.72			18.0	2.0	
100	256QAM	1	1	18.88			17.0	3.0	
Channel									
Frequency (MHz)									
3745.02									
90	QPSK	1	1	19.27	19.22	19.16	20.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
80	QPSK	1	1	19.16	19.23	19.22	20.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
70	QPSK	1	1	19.25	19.16	19.27	20.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
60	QPSK	1	1	19.25	19.16	19.27	20.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
50	QPSK	1	1	19.15	19.18	19.16	20.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
40	QPSK	1	1	19.25	19.17	19.22	20.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
30	QPSK	1	1	19.16	19.26	19.16	20.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
20	QPSK	1	1	19.14	19.15	19.27	20.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
15	QPSK	1	1	19.18	19.19	19.25	20.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
10	QPSK	1	1	19.20	19.23	19.16	20.0	0.0	

Part270(HPUE)_n78_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	PI2 BPSK	1	1	21.05					
100	PI2 BPSK	1	137	21.07			22.0	0.0	
100	PI2 BPSK	1	271	21.03					
100	PI2 BPSK	135	0	21.08			21.5	0.5	
100	PI2 BPSK	135	69	21.07			22.0	0.0	
100	PI2 BPSK	135	138	21.04			21.5	0.5	
100	PI2 BPSK	270	0	21.05					
100	QPSK	1	1	21.09					
100	QPSK	1	137	20.79			22.0	0.0	
100	QPSK	1	271	20.41					
100	QPSK	135	0	20.95					
100	QPSK	135	69	20.82			22.0	0.0	
100	QPSK	135	138	19.72					
100	QPSK	270	0	18.94			21.0	1.0	
100	16QAM	1	1	20.12			21.0	1.0	
100	16QAM	1	1	18.42			19.5	2.5	
100	256QAM	1	1	17.59			18.0	4.0	
Channel									
Frequency (MHz)									
3745.02									
90	QPSK	1	1	21.00	21.07	20.95	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
80	QPSK	1	1	21.05	20.99	20.97	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
70	QPSK	1	1	21.08	21.02	20.94	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
60	QPSK	1	1	21.04	20.98	21.05	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
50	QPSK	1	1	20.97	21.00	21.05	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
40	QPSK	1	1	20.97	20.98	21.06	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
30	QPSK	1	1	21.08	20.97	21.03	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
20	QPSK	1	1	21.03	20.95	21.02	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
15	QPSK	1	1	20.94	21.00	21.00	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
10	QPSK	1	1	20.95	20.95	21.00	22.0	0.0	

Part270_n78_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	PI2 BPSK	1	1	21.06					
100	PI2 BPSK	1	137	20.98			22.0	0.0	
100	PI2 BPSK	1	271	20.96					
100	PI2 BPSK	135	0	21.06			22.0	0.0	
100	PI2 BPSK	135	69	20.98			22.0	0.0	
100	PI2 BPSK	135	138	20.97			22.0	0.0	
100	PI2 BPSK	270	0	21.00					
100	QPSK	1	1	21.11					
100	QPSK	1	137	21.08			22.0	0.0	
100	QPSK	1	271	21.00					
100	QPSK	135	0	21.00					
100	QPSK	135	69	21.08			22.0	0.0	
100	QPSK	135	138	21.01					
100	QPSK	270	0	21.02			22.0	0.0	
100	16QAM	1	1	21.07			22.0	0.0	
100	256QAM	1	1	20.85			21.5	0.5	
Channel									
Frequency (MHz)									
3745.02									
90	QPSK	1	1	21.08	20.96	20.96	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
80	QPSK	1	1	20.95	20.92	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
70	QPSK	1	1	20.98	20.93	20.83	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
60	QPSK	1	1	20.96	20.92	20.82	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
50	QPSK	1	1	21.07	20.87	20.87	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
40	QPSK	1	1	20.94	20.82	20.90	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
30	QPSK	1	1	21.01	20.89	20.82	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
20	QPSK	1	1	20.98	20.87	20.87	22.0	0.0	
Channel									
Frequency (MHz)									
3745.02									
15	QPSK	1	1	21.04	20.95	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
3745.01									
10	QPSK	1	1	20.99	20.87	20.84	22.0	0.0	



Part270(HPUE)_n78_Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	23.86			25.0	0.0
100	PI2 BPSK	1	137	23.87				
100	PI2 BPSK	1	271	23.77				
100	PI2 BPSK	135	0	23.80			25.0	0.0
100	PI2 BPSK	135	69	23.76			25.0	0.0
100	PI2 BPSK	135	138	23.86			25.0	0.0
100	PI2 BPSK	270	0	23.82				
100	QPSK	1	1	23.88				
100	QPSK	1	137	23.79			25.0	0.0
100	QPSK	1	271	23.86				
100	QPSK	135	0	23.80				
100	QPSK	135	69	23.85			25.0	0.0
100	QPSK	135	138	23.81			25.0	0.0
100	QPSK	270	0	23.90			25.0	0.0
100	16QAM	1	1	23.76			25.0	0.0
100	16QAM	1	1	23.82			24.5	0.5
100	256QAM	1	1	22.38			22.5	2.5
Channel								
Frequency (MHz)				648668	650000	652332		
90	QPSK	1	1	23.73	23.79	23.76	25.0	0.0
Channel								
Frequency (MHz)				648334	650000	650666		
90	QPSK	1	1	22.69	22.70	22.79	24.0	0.0
Channel								
Frequency (MHz)				3743.02	3750	3754.98		
80	QPSK	1	1	22.67	22.74	22.78	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000		
70	QPSK	1	1	22.12	22.18	22.87	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651332		
60	QPSK	1	1	22.30	22.30	22.30	24.0	0.0
Channel								
Frequency (MHz)				3726.01	3750	3774.99		
50	QPSK	1	1	23.67	23.76	23.67	25.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000		
40	QPSK	1	1	23.67	23.68	23.66	25.0	0.0
Channel								
Frequency (MHz)				647668	650000	652332		
30	QPSK	1	1	23.68	23.76	23.62	25.0	0.0
Channel								
Frequency (MHz)				647334	650000	652666		
20	QPSK	1	1	23.12	23.16	23.68	25.0	0.0
Channel								
Frequency (MHz)				647168	650000	652832		
15	QPSK	1	1	23.62	23.77	23.72	25.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.70	23.84	23.72	25.0	0.0

Part270_n78_Ant 6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	22.63			24.0	0.0
100	PI2 BPSK	1	137	22.73				
100	PI2 BPSK	1	271	22.76				
100	PI2 BPSK	135	0	22.72			24.0	0.0
100	PI2 BPSK	135	69	22.69			24.0	0.0
100	PI2 BPSK	135	138	22.66			24.0	0.0
100	PI2 BPSK	270	0	22.63				
100	QPSK	1	1	22.62				
100	QPSK	1	137	22.62			24.0	0.0
100	QPSK	1	271	22.75				
100	QPSK	135	0	22.69				
100	QPSK	135	69	22.77			24.0	0.0
100	QPSK	135	138	22.68			24.0	0.0
100	QPSK	270	0	22.66			24.0	0.0
100	16QAM	1	1	22.01			23.5	0.5
100	16QAM	1	1	21.19			22.5	1.5
100	256QAM	1	1	20.08			21.5	2.5
Channel								
Frequency (MHz)				648668	650000	652332		
90	QPSK	1	1	22.69	22.70	22.79	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	650666		
90	QPSK	1	1	22.67	22.74	22.78	24.0	0.0
Channel								
Frequency (MHz)				3743.02	3750	3754.98		
80	QPSK	1	1	22.67	22.74	22.78	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000		
70	QPSK	1	1	22.16	22.16	22.83	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651332		
60	QPSK	1	1	22.30	22.30	22.30	24.0	0.0
Channel								
Frequency (MHz)				3726.01	3750	3774.99		
50	QPSK	1	1	22.72	22.81	22.70	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000		
40	QPSK	1	1	22.67	22.75	22.74	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	652332		
30	QPSK	1	1	22.81	22.76	22.71	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	652666		
20	QPSK	1	1	22.12	22.81	22.68	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	652832		
15	QPSK	1	1	22.79	22.79	22.81	24.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.69	22.69	22.75	24.0	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)				3750	3750	3750		
100	PI2 BPSK	1	1	25.58			27.0	0.0
100	PI2 BPSK	1	137	25.64				
100	PI2 BPSK	1	271	25.75				
100	PI2 BPSK	135	0	25.56			26.5	0.5
100	PI2 BPSK	135	69	25.84			27.0	0.0
100	PI2 BPSK	135	138	25.53			26.5	0.5
100	PI2 BPSK	270	0	25.49				
100	QPSK	1	1	25.78				
100	QPSK	1	137	25.68			27.0	0.0
100	QPSK	1	271	25.52				
100	QPSK	135	0	25.98				
100	QPSK	135	69	25.71			27.0	0.0
100	QPSK	135	138	24.91			26.0	1.0
100	QPSK	270	0	24.99			26.0	1.0
100	16QAM	1	1	24.74			24.5	2.5
100	16QAM	1	1	23.41			24.5	2.5
100	256QAM	1	1	22.01			22.5	4.5
Channel								
Frequency (MHz)				648668	650000	652332		
90	QPSK	1	1	25.63	25.68	25.66	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	650666		
90	QPSK	1	1	25.62	25.73	25.77	27.0	0.0
Channel								
Frequency (MHz)				3743.02	3750	3754.98		
80	QPSK	1	1	25.72	25.73	25.77	27.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000		
70	QPSK	1	1	25.65	25.65	25.63	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	651332		
60	QPSK	1	1	25.71	25.66	25.72	27.0	0.0
Channel								
Frequency (MHz)				3726.01	3750	3774.99		
50	QPSK	1	1	25.63	25.69	25.76	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000		
40	QPSK	1	1	25.67	25.74	25.69	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	652332		
30	QPSK	1	1	25.72	25.70	25.72	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	652666		
20	QPSK	1	1	25.70	25.64	25.69	27.0	0.0
Channel								
Frequency (MHz)				647168	650000	652832		
15	QPSK	1	1	25.76	25.67	25.77	27.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.67	25.71	25.70	27.0	0.0



Part270_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
650000									
3750									
100	PI2 BPSK	1	1	18.33					
100	PI2 BPSK	1	137	18.23			19.0	0.0	
100	PI2 BPSK	1	211	18.32					
100	PI2 BPSK	135	0	18.27			19.0	0.0	
100	PI2 BPSK	135	69	18.27			19.0	0.0	
100	PI2 BPSK	135	138	18.34			19.0	0.0	
100	PI2 BPSK	210	0	18.25					
100	QPSK	1	1	18.37					
100	QPSK	1	137	18.30			19.0	0.0	
100	QPSK	1	211	18.23					
100	QPSK	135	0	18.25					
100	QPSK	135	69	18.34			19.0	0.0	
100	QPSK	135	138	18.23					
100	QPSK	270	0	18.31			19.0	0.0	
100	16QAM	1	1	18.26			19.0	0.0	
100	64QAM	1	1	17.73			18.5	0.5	
100	256QAM	1	1	17.08			17.5	1.5	
Channel									
Frequency (MHz)									
649988									
3745.02									
3750									
3754.98									
90	QPSK	1	1	18.25	18.27	18.25	19.0	0.0	
Channel									
Frequency (MHz)									
649334									
650000									
650666									
Tune-up limit (dBm)									
MFR (dB)									
80	QPSK	1	1	18.13	18.13	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
648000									
650000									
651000									
Tune-up limit (dBm)									
MFR (dB)									
70	QPSK	1	1	18.21	18.13	18.12	19.0	0.0	
Channel									
Frequency (MHz)									
648968									
650000									
651302									
Tune-up limit (dBm)									
MFR (dB)									
60	QPSK	1	1	18.10	18.21	18.15	19.0	0.0	
Channel									
Frequency (MHz)									
647500									
650000									
651566									
Tune-up limit (dBm)									
MFR (dB)									
50	QPSK	1	1	18.14	18.17	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
647000									
650000									
652000									
Tune-up limit (dBm)									
MFR (dB)									
40	QPSK	1	1	18.11	18.21	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
647098									
650000									
652332									
Tune-up limit (dBm)									
MFR (dB)									
30	QPSK	1	1	18.22	18.22	18.12	19.0	0.0	
Channel									
Frequency (MHz)									
647334									
650000									
652666									
Tune-up limit (dBm)									
MFR (dB)									
20	QPSK	1	1	18.16	18.10	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
647168									
650000									
652832									
Tune-up limit (dBm)									
MFR (dB)									
15	QPSK	1	1	18.21	18.24	18.20	19.0	0.0	
Channel									
Frequency (MHz)									
647000									
650000									
653000									
Tune-up limit (dBm)									
MFR (dB)									
10	QPSK	1	1	18.22	18.16	18.16	19.0	0.0	

Part270(HPUE)_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
650000									
3750									
3750									
100	PI2 BPSK	1	1	20.37					
100	PI2 BPSK	1	137	20.43			21.0	0.0	
100	PI2 BPSK	1	211	20.42					
100	PI2 BPSK	135	0	20.41			21.0	0.0	
100	PI2 BPSK	135	69	20.43			21.0	0.0	
100	PI2 BPSK	135	138	20.29			21.0	0.0	
100	PI2 BPSK	210	0	20.33					
100	QPSK	1	1	20.44					
100	QPSK	1	137	20.43			21.0	0.0	
100	QPSK	1	211	20.43					
100	QPSK	135	0	20.31					
100	QPSK	135	69	20.40			21.0	0.0	
100	QPSK	135	138	20.33					
100	QPSK	270	0	20.34			21.0	0.0	
100	16QAM	1	1	20.32			21.0	0.0	
100	64QAM	1	1	18.68			20.5	0.5	
100	256QAM	1	1	18.20			18.5	2.5	
Channel									
Frequency (MHz)									
649988									
650000									
650332									
Tune-up limit (dBm)									
MFR (dB)									
90	QPSK	1	1	20.32	20.36	20.40	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
650000									
650666									
Tune-up limit (dBm)									
MFR (dB)									
80	QPSK	1	1	20.31	20.21	20.38	21.0	0.0	
Channel									
Frequency (MHz)									
648000									
650000									
651000									
Tune-up limit (dBm)									
MFR (dB)									
70	QPSK	1	1	20.25	20.25	20.26	21.0	0.0	
Channel									
Frequency (MHz)									
648968									
650000									
651302									
Tune-up limit (dBm)									
MFR (dB)									
60	QPSK	1	1	20.31	20.21	20.31	21.0	0.0	
Channel									
Frequency (MHz)									
647500									
650000									
651566									
Tune-up limit (dBm)									
MFR (dB)									
50	QPSK	1	1	20.26	20.35	20.25	21.0	0.0	
Channel									
Frequency (MHz)									
647000									
650000									
652000									
Tune-up limit (dBm)									
MFR (dB)									
40	QPSK	1	1	20.17	20.29	20.26	21.0	0.0	
Channel									
Frequency (MHz)									
647098									
650000									
652332									
Tune-up limit (dBm)									
MFR (dB)									
30	QPSK	1	1	20.19	20.21	20.33	21.0	0.0	
Channel									
Frequency (MHz)									
647334									
650000									
652666									
Tune-up limit (dBm)									
MFR (dB)									
20	QPSK	1	1	20.25	20.25	20.29	21.0	0.0	
Channel									
Frequency (MHz)									
647168									
650000									
652832									
Tune-up limit (dBm)									
MFR (dB)									
15	QPSK	1	1	20.24	20.26	20.38	21.0	0.0	
Channel									
Frequency (MHz)									
647000									
650000									
653000									
Tune-up limit (dBm)									
MFR (dB)									
10	QPSK	1	1	20.31	20.34	20.30	21.0	0.0	



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Part 27Q Band 42_Ant 3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Channel.

Reduced Power Mode for DSI 3

Part 27Q_Band 42_Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Channel.

Part 27Q_Band 42_Ant 6

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Channel.

Part 27Q_Band 42_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Channel.



n26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.98	23.12	23.10	24.0	0.0	
20	PI2 BPSK	1	51	22.99	23.08	22.99			
20	PI2 BPSK	1	104	22.93	22.98	22.88			
20	PI2 BPSK	50	0	22.99	23.11	23.03	24.0	0.0	
20	PI2 BPSK	50	28	22.96	23.03	23.00	24.0	0.0	
20	PI2 BPSK	50	56	22.93	23.06	23.00	24.0	0.0	
20	PI2 BPSK	100	0	22.97	23.05	23.02	24.0	0.0	
20	QPSK	1	1	23.12	23.18	23.05	24.0	0.0	
20	QPSK	1	51	22.89	23.02	22.87			
20	QPSK	1	104	22.87	22.92	22.83			
20	QPSK	50	0	22.95	23.07	22.94	24.0	0.0	
20	QPSK	50	28	23.07	23.11	23.03	24.0	0.0	
20	QPSK	50	56	22.90	23.04	22.92	24.0	0.0	
20	QPSK	100	0	22.95	23.05	23.04	24.0	0.0	
20	16QAM	1	1	22.95	23.11	23.07	24.0	0.0	
20	64QAM	1	1	21.54	21.68	21.56	22.5	1.5	
20	256QAM	1	1	20.03	20.07	19.99	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.88	23.09	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.03	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.05	23.03	24.0	0.0	

n26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.39	22.34	22.32	23.5	0.0	
20	PI2 BPSK	1	51	22.38	22.31	22.30			
20	PI2 BPSK	1	104	22.28	22.31	22.22			
20	PI2 BPSK	50	0	22.28	22.27	22.28	23.5	0.0	
20	PI2 BPSK	50	28	22.31	22.36	22.35	23.5	0.0	
20	PI2 BPSK	50	56	22.28	22.34	22.34	23.5	0.0	
20	PI2 BPSK	100	0	22.34	22.26	22.24	23.5	0.0	
20	QPSK	1	1	22.40	22.41	22.37	23.5	0.0	
20	QPSK	1	51	22.37	22.29	22.23			
20	QPSK	1	104	22.29	22.26	22.25			
20	QPSK	50	0	22.25	22.26	22.25	23.5	0.0	
20	QPSK	50	28	22.30	22.40	22.29	23.5	0.0	
20	QPSK	50	56	22.27	22.24	22.26	23.5	0.0	
20	QPSK	100	0	22.25	22.38	22.31	23.5	0.0	
20	16QAM	1	1	22.34	22.31	22.31	23.5	0.0	
20	64QAM	1	1	21.00	21.07	20.99	22.0	1.5	
20	256QAM	1	1	19.84	19.85	19.84	20.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.35	22.27	22.30	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.30	22.34	23.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.27	22.35	22.35	23.5	0.0	



Part270_n78_Ant 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.28				
100	PI2 BPSK	1	137	19.27				
100	PI2 BPSK	1	271	19.24				
100	PI2 BPSK	135	0	19.19				
100	PI2 BPSK	135	99	19.21				
100	PI2 BPSK	135	138	19.18				
100	PI2 BPSK	270	0	19.24				
100	QPSK	1	1	19.22				
100	QPSK	1	137	19.24				
100	QPSK	1	271	19.23				
100	QPSK	135	0	19.12				
100	QPSK	135	99	19.22				
100	QPSK	135	138	19.25				
100	QPSK	270	0	19.26				
100	QPSK	1	1	19.25				
100	84QAM	1	1	19.72				
100	84QAM	1	1	19.63				
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.22				
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.16				
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.26				
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.23				
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.23				
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.18				
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.16				
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.14				
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.13				
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.20				

Part270(HPUe)_n78_Ant 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.68				
100	PI2 BPSK	1	137	21.67				
100	PI2 BPSK	1	271	21.63				
100	PI2 BPSK	135	0	21.68				
100	PI2 BPSK	135	99	21.67				
100	PI2 BPSK	135	138	21.64				
100	PI2 BPSK	270	0	21.62				
100	QPSK	1	1	21.63				
100	QPSK	1	137	21.64				
100	QPSK	1	271	21.61				
100	QPSK	135	0	21.58				
100	QPSK	135	99	21.62				
100	QPSK	135	138	21.62				
100	QPSK	270	0	21.61				
100	84QAM	1	1	21.12				
100	84QAM	1	1	21.42				
100	84QAM	1	1	21.62				
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.63				
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.55				
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.68				
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.64				
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.57				
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.57				
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.58				
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.55				
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.64				
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.62				

Part270_n78_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.13				
100	PI2 BPSK	1	137	19.25				
100	PI2 BPSK	1	271	19.13				
100	PI2 BPSK	135	0	19.25				
100	PI2 BPSK	135	99	19.21				
100	PI2 BPSK	135	138	19.24				
100	PI2 BPSK	270	0	19.29				
100	QPSK	1	1	19.13				
100	QPSK	1	137	19.11				
100	QPSK	1	271	19.12				
100	QPSK	135	0	19.09				
100	QPSK	135	99	19.24				
100	QPSK	135	138	19.11				
100	QPSK	270	0	19.06				
100	84QAM	1	1	19.12				
100	84QAM	1	1	19.09				
100	84QAM	1	1	19.11				
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.13				
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.02				
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.08				
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.00				
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.03				
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.01				
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.02				
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.04				
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.03				
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.03				

Part270(HPUe)_n78_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.78				
100	PI2 BPSK	1	137	21.81				
100	PI2 BPSK	1	271	21.82				
100	PI2 BPSK	135	0	21.74				
100	PI2 BPSK	135	99	21.81				
100	PI2 BPSK	135	138	21.72				
100	PI2 BPSK	270	0	21.73				
100	QPSK	1	1	21.82				
100	QPSK	1	137	21.86				
100	QPSK	1	271	21.82				
100	QPSK	135	0	21.75				
100	QPSK	135	99	21.83				
100	QPSK	135	138	21.83				
100	QPSK	270	0	21.86				
100	84QAM	1	1	21.74				
100	84QAM	1	1	21.72				
100	84QAM	1	1	21.84				
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.82				
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.69				
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.89				
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.85				
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.72				
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.71				
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.78				
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.79				
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.83				
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.74				



Part270_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)	
Channel									
100	PB2 BPSK	1	1	19.33	19.33		20.0	0.0	
Frequency (MHz)									
100	PB2 BPSK	1	1	19.33	19.33		20.0	0.0	
100	PB2 BPSK	1	271	19.38	19.38		20.0	0.0	
100	PB2 BPSK	135	9	19.29	19.29		20.0	0.0	
100	PB2 BPSK	135	89	19.27	19.27		20.0	0.0	
100	PB2 BPSK	135	138	19.34	19.34		20.0	0.0	
100	PB2 BPSK	270	6	19.30	19.30		20.0	0.0	
100	QPSK	1	1	19.38	19.38		20.0	0.0	
100	QPSK	1	137	19.27	19.27		20.0	0.0	
100	QPSK	1	271	19.23	19.23		20.0	0.0	
100	QPSK	135	9	19.29	19.29		20.0	0.0	
100	QPSK	135	89	19.24	19.24		20.0	0.0	
100	QPSK	135	138	19.24	19.24		20.0	0.0	
100	QPSK	270	6	19.27	19.27		20.0	0.0	
100	MS-AM	1	1	19.30	19.30		20.0	0.0	
100	MS-AM	1	1	19.32	19.32		20.0	0.0	
100	MS-AM	1	1	19.30	19.30		20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.25	19.25		20.0	0.0	
Channel									
				848334	850000	850986	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.32	19.32		20.0	0.0	
Channel									
				850000	850000	851000	Turn-up time (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	19.28	19.19	19.20	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.22	19.19	19.19	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.22	19.25	19.25	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	19.24	19.19	19.18	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.24	19.19	19.19	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.24	19.25	19.25	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	19.24	19.19	19.19	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	19.28	19.19	19.20	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.22	19.19	19.19	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.22	19.19	19.19	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.22	19.19	19.19	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	19.30	19.29	19.29	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	19.28	19.29	19.29	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
20	QPSK	1	1	19.28	19.22	19.12	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
15	QPSK	1	1	19.25	19.20	19.17	20.0	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
15	QPSK	1	1	19.25	19.20	19.17	20.0	0.0	

Part270(HPUe)_n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)	
Channel									
100	PB2 BPSK	1	1	22.22	22.22		23.5	0.0	
Frequency (MHz)									
100	PB2 BPSK	1	137	22.28	22.28		23.5	0.0	
100	PB2 BPSK	1	271	22.27	22.27		23.5	0.0	
100	PB2 BPSK	135	9	22.16	22.16		23.5	0.0	
100	PB2 BPSK	135	89	22.15	22.15		23.5	0.0	
100	PB2 BPSK	135	138	22.20	22.20		23.5	0.0	
100	PB2 BPSK	270	6	22.22	22.22		23.5	0.0	
100	QPSK	1	1	22.28	22.28		23.5	0.0	
100	QPSK	1	137	22.21	22.21		23.5	0.0	
100	QPSK	1	271	22.15	22.15		23.5	0.0	
100	QPSK	135	9	22.23	22.23		23.5	0.0	
100	QPSK	135	89	22.22	22.22		23.5	0.0	
100	QPSK	135	138	22.24	22.24		23.5	0.0	
100	QPSK	270	6	22.22	22.22		23.5	0.0	
100	MS-AM	1	1	22.25	22.25		23.5	0.0	
100	MS-AM	1	1	22.23	22.23		23.5	0.0	
100	MS-AM	1	1	22.23	22.23		23.5	0.0	
Channel									
				846868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	22.18	22.18		23.5	0.0	
Channel									
				848334	850000	850986	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	22.18	22.15	22.18	23.5	0.0	
Channel									
				847868	850000	851000	Turn-up time (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	22.04	22.19	22.18	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	22.12	22.15	22.15	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	22.04	22.17	22.16	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	22.07	22.12	22.12	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	22.12	22.15	22.15	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	22.12	22.15	22.15	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	22.18	22.12	22.13	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	22.18	22.12	22.13	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
20	QPSK	1	1	22.09	22.23	22.15	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
15	QPSK	1	1	22.16	22.19	22.13	23.5	0.0	
Channel									
				847868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
15	QPSK	1	1	22.10	22.16	22.16	23.5	0.0	

Part270_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MPR (dB)	
Channel									
100	PB2 BPSK	1	1	19.25	19.25		20.0	0.0	
Frequency (MHz)									
100	PB2 BPSK	1	137	19.28	19.28		20.0	0.0	
100	PB2 BPSK	1	271	19.24	19.24		20.0	0.0	
100	PB2 BPSK	135	9	19.29	19.29		20.0	0.0	
100	PB2 BPSK	135	89	19.21	19.21		20.0	0.0	
100	PB2 BPSK	135	138	19.27	19.27		20.0	0.0	
100	PB2 BPSK	270	6	19.22	19.22		20.0	0.0	
100	QPSK	1	1	19.27	19.27		20.0	0.0	
100	QPSK	1	137	19.21	19.21		20.0	0.0	
100	QPSK	1	271	19.21	19.21		20.0	0.0	
100	QPSK	135	9	19.27	19.27		20.0	0.0	
100	QPSK	135	89	19.25	19.25		20.0	0.0	
100	QPSK	135	138	19.28	19.28		20.0	0.0	
100	QPSK	270	6	19.29	19.29		20.0	0.0	
100	MS-AM	1	1	19.24	19.24		20.0	0.0	
100	MS-AM	1	1	19.25	19.25		20.0	0.0	
100	MS-AM	1	1	19.25	19.25		20.0	0.0	
Channel									
				846868	850000	852332	Turn-up time (dB)	MPR	
Frequency (MHz)									
80	QPSK	1	1	19.12	19.14		20.0	0.0	



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Part 27Q Band 42_Ant 3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Channel, and Channel.

Reduced Power Mode for DSI 4

Part 27Q_Band 42_Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 6

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Level, Power Ch / Freq, Power Hsp Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Channel, and Channel.



n26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.98	23.12	23.10	24.0	0.0	
20	PI2 BPSK	1	51	22.99	23.08	22.99			
20	PI2 BPSK	1	104	22.93	22.98	22.88			
20	PI2 BPSK	50	0	22.99	23.11	23.03	24.0	0.0	
20	PI2 BPSK	50	28	22.96	23.03	23.00	24.0	0.0	
20	PI2 BPSK	50	56	22.93	23.06	23.00	24.0	0.0	
20	PI2 BPSK	100	0	22.97	23.05	23.02	24.0	0.0	
20	QPSK	1	1	23.12	23.18	23.05	24.0	0.0	
20	QPSK	1	51	22.89	23.02	22.87			
20	QPSK	1	104	22.87	22.92	22.83			
20	QPSK	50	0	22.95	23.07	22.94	24.0	0.0	
20	QPSK	50	28	23.07	23.11	23.03	24.0	0.0	
20	QPSK	50	56	22.90	23.04	22.92	24.0	0.0	
20	QPSK	100	0	22.95	23.05	23.04	24.0	0.0	
20	16QAM	1	1	22.95	23.11	23.07	24.0	0.0	
20	64QAM	1	1	21.54	21.68	21.56	22.5	1.5	
20	256QAM	1	1	20.03	20.07	19.99	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.88	23.09	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.03	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.05	23.03	24.0	0.0	

n26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.71	22.81	22.80	24.0	0.0	
20	PI2 BPSK	1	51	22.76	22.81	22.77			
20	PI2 BPSK	1	104	22.61	22.68	22.53			
20	PI2 BPSK	50	0	22.82	22.88	22.78	24.0	0.0	
20	PI2 BPSK	50	28	22.76	22.79	22.74	24.0	0.0	
20	PI2 BPSK	50	56	22.67	22.75	22.71	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.83	22.81	24.0	0.0	
20	QPSK	1	1	22.83	22.91	22.87	24.0	0.0	
20	QPSK	1	51	22.69	22.63	22.61			
20	QPSK	1	104	22.65	22.74	22.61			
20	QPSK	50	0	22.72	22.78	22.67	24.0	0.0	
20	QPSK	50	28	22.72	22.87	22.61	24.0	0.0	
20	QPSK	50	56	22.65	22.68	22.61	24.0	0.0	
20	QPSK	100	0	22.71	22.77	22.63	24.0	0.0	
20	16QAM	1	1	22.50	22.60	22.56	24.0	0.0	
20	64QAM	1	1	21.00	21.07	20.99	22.0	2.0	
20	256QAM	1	1	19.84	19.85	19.84	20.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.76	22.78	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.77	22.80	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.70	22.83	22.74	24.0	0.0	



n38_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
2590.02 2595 2599.98								
40	PI2 BPSK	1	1	22.51	22.53	22.52	24.0	0.0
40	PI2 BPSK	1	53	22.50	22.53	22.43		
40	PI2 BPSK	1	104	22.07	22.36	22.30		
40	PI2 BPSK	50	0	21.97	22.12	22.03	23.5	0.5
40	PI2 BPSK	50	28	22.38	22.52	22.37	24.0	0.0
40	PI2 BPSK	50	56	21.99	22.05	21.93	23.5	0.5
40	PI2 BPSK	100	0	22.10	22.11	22.10	24.0	0.0
40	QPSK	1	1	22.50	22.60	22.57		
40	QPSK	1	53	22.45	22.50	22.38		
40	QPSK	1	104	22.19	22.30	22.16	24.0	0.0
40	QPSK	50	0	21.93	21.94	21.91		
40	QPSK	50	28	22.46	22.51	22.38		
40	QPSK	50	56	21.37	21.46	21.36	24.0	0.0
40	QPSK	100	0	21.52	21.55	21.52		
40	QPSK	100	0	21.38	21.48	21.38		
40	16QAM	1	1	19.83	19.77	19.62	21.5	2.5
40	256QAM	1	1	18.08	18.21	18.18	19.5	4.5
Channel								
Frequency (MHz)								
5180.04 51800 51899.8								
30	QPSK	1	1	22.56	22.55	22.54	24.0	0.0
Channel								
Frequency (MHz)								
51800.4 518000 521496								
25	QPSK	1	1	22.51	22.54	22.52	24.0	0.0
Channel								
Frequency (MHz)								
518000 518000 520000								
20	QPSK	1	1	22.48	22.47	22.50	24.0	0.0
Channel								
Frequency (MHz)								
515002 518000 520498								
15	QPSK	1	1	22.53	22.56	22.56	24.0	0.0
Channel								
Frequency (MHz)								
515004 518000 520998								
10	QPSK	1	1	22.54	22.45	22.44	24.0	0.0
Channel								
Frequency (MHz)								
514500 518000 520000								
5	QPSK	1	1	22.51	22.48	22.43	24.0	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)								
2590.02 2595 2599.98								
40	PI2 BPSK	1	1	17.14	17.16	17.28	18.0	0.0
40	PI2 BPSK	1	53	17.09	17.20	17.27		
40	PI2 BPSK	1	104	17.06	17.20	17.16		
40	PI2 BPSK	50	0	17.18	17.28	17.17	18.0	0.0
40	PI2 BPSK	50	28	17.10	17.21	17.29	18.0	0.0
40	PI2 BPSK	50	56	17.09	17.28	17.16	18.0	0.0
40	PI2 BPSK	100	0	17.19	17.28	17.23	18.0	0.0
40	QPSK	1	1	17.20	17.31	17.30		
40	QPSK	1	53	17.13	17.26	17.22		
40	QPSK	1	104	17.07	17.24	17.16	18.0	0.0
40	QPSK	50	0	17.11	17.16	17.21		
40	QPSK	50	28	17.15	17.28	17.26		
40	QPSK	50	56	17.07	17.24	17.19	18.0	0.0
40	QPSK	100	0	17.18	17.24	17.17		
40	16QAM	1	1	17.14	17.16	17.22		
40	16QAM	1	1	17.19	17.24	17.27	18.0	0.0
40	256QAM	1	1	17.07	17.12	17.05	17.5	0.5
Channel								
Frequency (MHz)								
5180.04 51800 52099.8								
30	QPSK	1	1	17.05	17.22	17.15	18.0	0.0
Channel								
Frequency (MHz)								
51800.4 518000 521496								
25	QPSK	1	1	17.10	17.17	17.20	18.0	0.0
Channel								
Frequency (MHz)								
518000 518000 520000								
20	QPSK	1	1	17.15	17.25	17.23	18.0	0.0
Channel								
Frequency (MHz)								
515002 518000 520498								
15	QPSK	1	1	17.07	17.28	17.23	18.0	0.0
Channel								
Frequency (MHz)								
515004 518000 520998								
10	QPSK	1	1	17.05	17.17	17.28	18.0	0.0
Channel								
Frequency (MHz)								
514500 518000 520000								
5	QPSK	1	1	17.18	17.28	17.21	18.0	0.0

n41_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
2546.01 2592.99 2600								
100	PI2 BPSK	1	1	22.84	22.75	22.84	24.0	0.0
100	PI2 BPSK	1	137	22.51	22.50	22.82		
100	PI2 BPSK	1	271	22.48	22.54	22.48		
100	PI2 BPSK	135	0	22.23	22.33	22.29	23.5	0.5
100	PI2 BPSK	135	69	22.62	22.66	22.58	24.0	0.0
100	PI2 BPSK	135	138	22.04	22.58	21.93	23.5	0.5
100	PI2 BPSK	270	0	22.08	22.13	22.02	24.0	0.0
100	QPSK	1	1	22.71	22.82	22.85		
100	QPSK	1	137	22.47	22.56	22.42		
100	QPSK	1	271	22.30	22.39	22.32	24.0	0.0
100	QPSK	135	0	21.94	21.91	21.70		
100	QPSK	135	69	22.67	22.68	22.65		
100	QPSK	135	138	21.48	21.58	21.51	24.0	1.0
100	QPSK	270	0	21.54	21.63	21.52		
100	16QAM	1	1	21.94	21.95	21.89		
100	16QAM	1	1	19.76	19.86	19.85	21.5	2.5
100	256QAM	1	1	18.53	18.56	18.48	19.5	4.5
Channel								
Frequency (MHz)								
5092.02 51899.8 52000								
90	QPSK	1	1	22.58	22.71	22.63	24.0	0.0
Channel								
Frequency (MHz)								
507204 518998 520998								
80	QPSK	1	1	22.57	22.71	22.59	24.0	0.0
Channel								
Frequency (MHz)								
506202 518998 531000								
70	QPSK	1	1	22.70	22.78	22.52	24.0	0.0
Channel								
Frequency (MHz)								
505200 518998 531998								
60	QPSK	1	1	22.08	22.76	22.51	24.0	0.0
Channel								
Frequency (MHz)								
2551.02 2592.99 2604.99								
50	QPSK	1	1	22.59	22.77	22.51	24.0	0.0
Channel								
Frequency (MHz)								
502704 518998 534498								
40	QPSK	1	1	22.57	22.78	22.51	24.0	0.0
Channel								
Frequency (MHz)								
502704 518998 534998								
35	QPSK	1	1	22.55	22.72	22.59	24.0	0.0
Channel								
Frequency (MHz)								
2511.02 2592.99 2574.98								
30	QPSK	1	1	22.58	22.70	22.59	24.0	0.0
Channel								
Frequency (MHz)								
2501.04 518998 535998								
20	QPSK	1	1	22.67	22.78	22.80	24.0	0.0
Channel								
Frequency (MHz)								
2503.5 2592.99 2602.48								
15	QPSK	1	1	22.60	22.89	22.51	24.0	0.0
Channel								
Frequency (MHz)								
500202 518998 537000								
10	QPSK	1	1	22.63	22.73	22.52	24.0	0.0



n41_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2548.01 2592.99 2840									
100	PI2 BPSK	1	1	17.01	17.13	16.79			
100	PI2 BPSK	1	137	17.03	17.22	16.76	18.0	0.0	
100	PI2 BPSK	1	241	17.10	17.12	16.83			
100	PI2 BPSK	135	0	17.11	17.16	16.85	18.0	0.0	
100	PI2 BPSK	135	69	17.07	17.12	16.88	18.0	0.0	
100	PI2 BPSK	135	138	17.02	17.16	16.79	18.0	0.0	
100	PI2 BPSK	270	0	17.07	17.22	16.83			
100	QPSK	1	1	17.15	17.23	16.90			
100	QPSK	1	137	17.09	17.15	16.82	18.0	0.0	
100	QPSK	1	271	17.14	17.09	16.84			
100	QPSK	135	0	17.10	17.17	16.77	18.0	0.0	
100	QPSK	135	69	17.11	17.20	16.87	18.0	0.0	
100	QPSK	135	138	17.10	17.17	16.78	18.0	0.0	
100	QPSK	270	0	17.02	17.15	16.82	18.0	0.0	
100	16QAM	1	1	17.13	17.18	16.81	18.0	0.0	
100	16QAM	1	1	17.08	17.20	16.79	18.0	0.0	
100	256QAM	1	1	17.13	17.18	16.86	17.5	0.5	
Channel									
Frequency (MHz)									
2541 2592.99 2634.98									
90	QPSK	1	1	17.04	17.15	16.86	18.0	0.0	
Channel									
Frequency (MHz)									
507204 518998 529998									
80	QPSK	1	1	17.00	17.10	16.87	18.0	0.0	
Channel									
Frequency (MHz)									
505202 518998 531000									
70	QPSK	1	1	17.08	17.20	16.81	18.0	0.0	
Channel									
Frequency (MHz)									
505000 518998 531996									
60	QPSK	1	1	17.14	17.21	16.84	18.0	0.0	
Channel									
Frequency (MHz)									
502202 518998 534000									
50	QPSK	1	1	17.14	17.20	16.89	18.0	0.0	
Channel									
Frequency (MHz)									
502704 518998 534998									
40	QPSK	1	1	17.09	17.12	16.82	18.0	0.0	
Channel									
Frequency (MHz)									
502704 518998 534998									
35	QPSK	1	1	17.02	17.21	16.88	18.0	0.0	
Channel									
Frequency (MHz)									
502000 518998 534998									
30	QPSK	1	1	17.03	17.11	16.76	18.0	0.0	
Channel									
Frequency (MHz)									
5063.02 2592.99 2679.99									
20	QPSK	1	1	17.07	17.10	16.79	18.0	0.0	
Channel									
Frequency (MHz)									
2503.5 2592.99 2692.48									
15	QPSK	1	1	17.02	17.13	16.82	18.0	0.0	
Channel									
Frequency (MHz)									
2503.02 518998 537000									
10	QPSK	1	1	17.07	17.21	16.89	18.0	0.0	

Part270_n77_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3790 3840 3900									
100	PI2 BPSK	1	1	20.71	21.04	20.91			
100	PI2 BPSK	1	137	20.66	21.06	20.94	22.0	0.0	
100	PI2 BPSK	1	241	20.73	21.06	20.92			
100	PI2 BPSK	135	0	20.65	21.06	21.01	22.0	0.0	
100	PI2 BPSK	135	69	20.60	21.02	20.89	22.0	0.0	
100	PI2 BPSK	135	138	20.67	21.01	20.86	22.0	0.0	
100	PI2 BPSK	270	0	20.67	21.02	20.91			
100	QPSK	1	1	20.70	21.07	20.90			
100	QPSK	1	137	20.56	20.97	20.84	22.0	0.0	
100	QPSK	1	271	20.68	21.05	20.96			
100	QPSK	135	0	19.92	20.21	20.06	22.0	0.0	
100	QPSK	135	69	20.05	20.98	20.90	22.0	0.0	
100	QPSK	135	138	19.93	20.37	20.26	22.0	0.0	
100	QPSK	270	0	19.89	20.24	20.18	21.0	1.0	
100	16QAM	1	1	18.81	19.86	19.86	21.0	1.0	
100	16QAM	1	1	18.34	18.73	18.70	19.5	2.5	
100	256QAM	1	1	17.34	17.74	17.63	18.0	4.0	
Channel									
Frequency (MHz)									
646968 656000 662332									
90	QPSK	1	1	20.65	20.99	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
648334 656000 662696									
80	QPSK	1	1	20.65	20.94	20.89	22.0	0.0	
Channel									
Frequency (MHz)									
649000 656000 663000									
70	QPSK	1	1	20.62	20.95	20.92	22.0	0.0	
Channel									
Frequency (MHz)									
648968 656000 663332									
60	QPSK	1	1	20.04	21.06	20.88	22.0	0.0	
Channel									
Frequency (MHz)									
647334 656000 664666									
50	QPSK	1	1	20.63	21.01	20.89	22.0	0.0	
Channel									
Frequency (MHz)									
649000 656000 663000									
40	QPSK	1	1	20.60	21.05	20.83	22.0	0.0	
Channel									
Frequency (MHz)									
647668 656000 664332									
30	QPSK	1	1	20.71	20.92	20.88	22.0	0.0	
Channel									
Frequency (MHz)									
647334 656000 664666									
20	QPSK	1	1	20.65	20.98	20.92	22.0	0.0	
Channel									
Frequency (MHz)									
647168 656000 664332									
15	QPSK	1	1	20.68	20.99	20.82	22.0	0.0	
Channel									
Frequency (MHz)									
3705 3840 3915									
10	QPSK	1	1	20.62	20.94	20.84	22.0	0.0	

Part270(HPUE)_n77_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3790 3840 3900									
100	PI2 BPSK	1	1	22.49	23.03	22.87			
100	PI2 BPSK	1	137	22.36	23.01	22.84	24.0	0.0	
100	PI2 BPSK	1	241	22.36	22.92	22.72			
100	PI2 BPSK	135	0	22.44	22.98	22.82	23.5	0.5	
100	PI2 BPSK	135	69	22.39	23.01	22.82	24.0	0.0	
100	PI2 BPSK	135	138	22.26	22.89	22.72	23.5	0.5	
100	PI2 BPSK	270	0	22.37	22.97	22.73			
100	QPSK	1	1	22.48	23.06	22.91			
100	QPSK	1	137	22.22	22.83	22.66	24.0	0.0	
100	QPSK	1	271	22.41	22.96	22.77			
100	QPSK	135	0	21.98	22.19	21.96	24.0	0.0	
100	QPSK	135	69	22.30	22.92	22.76	24.0	0.0	
100	QPSK	135	138	21.95	22.10	21.85	24.0	0.0	
100	QPSK	270	0	21.97	22.98	21.94	23.0	1.0	
100	16QAM	1	1	21.40	21.95	21.73	21.0	1.0	
100	16QAM	1	1	19.96	20.58	20.37	21.5	2.5	
100	256QAM	1	1	19.26	19.82	19.60	20.0	4.0	
Channel									
Frequency (MHz)									
646968 656000 662332									
90	QPSK	1	1	22.41	22.99	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
648334 656000 662696									
80	QPSK	1	1	22.43	22.98	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
649000 656000 663000									
70	QPSK	1	1	22.43	22.98	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
648968 656000 663332									
60	QPSK	1	1	22.26	22.93	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
647334 656000 664666									
50	QPSK	1	1	22.44	22.93	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
649000 656000 663000									
40	QPSK	1	1	22.47	23.04	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
647668 656000 664332									
30	QPSK	1	1	22.45	22.99	22.67	24.0	0.0	
Channel									
Frequency (MHz)									
647334 656000 664666									
20	QPSK	1	1	22.48	22.98	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
647168 656000 664332									
15	QPSK	1	1	22.44	23.03	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
3705 3840 3915									
10	QPSK	1	1	22.47	23.05	22.78	24.0	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)								
				3750	3840	3930		
100	Pi2 BPSK	1	1	23.12	23.57	23.56		
100	Pi2 BPSK	1	137	23.18	23.59	23.48	24.0	0.0
100	Pi2 BPSK	1	271	23.14	23.53	23.40		
100	Pi2 BPSK	135	0	23.22	23.56	23.50	24.0	0.0
100	Pi2 BPSK	135	69	23.25	23.62	23.57	24.0	0.0
100	Pi2 BPSK	135	138	23.21	23.56	23.46	24.0	0.0
100	Pi2 BPSK	270	0	23.17	23.53	23.47		
100	QPSK	1	1	23.20	23.63	23.56		
100	QPSK	1	137	23.11	23.56	23.41	24.0	0.0
100	QPSK	1	271	23.07	23.56	23.46		
100	QPSK	135	0	23.15	23.50	23.45		
100	QPSK	135	69	23.20	23.62	23.48	24.0	0.0
100	QPSK	135	138	23.21	23.58	23.54	24.0	0.0
100	QPSK	270	0	23.22	23.53	23.50	24.0	0.0
100	16QAM	1	1	22.71	23.06	22.93	23.5	0.5
100	16QAM	1	1	21.99	22.04	21.99	22.5	1.5
Channel								
Frequency (MHz)								
				3745.02	3840	3934.98		
90	QPSK	1	1	23.14	23.49	23.03	24.0	0.0
Channel								
Frequency (MHz)								
				649334	656000	662666		
80	QPSK	1	1	23.19	23.56	23.46	24.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	23.15	23.58	23.43	24.0	0.0
Channel								
Frequency (MHz)								
				648668	656000	663332		
60	QPSK	1	1	23.02	23.49	23.43	24.0	0.0
Channel								
Frequency (MHz)								
				3728.01	3840	3964.99		
50	QPSK	1	1	23.17	23.59	23.41	24.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	23.14	23.62	23.48	24.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	23.27	23.57	23.42	24.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	23.01	23.40	3963.99	24.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	23.15	23.51	23.43	24.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	23.14	23.60	23.40	24.0	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)								
				3750	3840	3930		
100	Pi2 BPSK	1	1	26.07	26.40	26.34		
100	Pi2 BPSK	1	137	26.12	26.43	26.39	27.0	0.0
100	Pi2 BPSK	1	271	25.98	26.33	26.21		
100	Pi2 BPSK	135	0	25.96	26.37	26.28	27.0	0.0
100	Pi2 BPSK	135	69	26.09	26.43	26.37	27.0	0.0
100	Pi2 BPSK	135	138	26.02	26.35	26.20	27.0	0.0
100	Pi2 BPSK	270	0	26.06	26.40	26.25		
100	QPSK	1	1	26.12	26.47	26.36		
100	QPSK	1	137	26.01	26.38	26.34	27.0	0.0
100	QPSK	1	271	26.03	26.43	26.32		
100	QPSK	135	0	26.01	26.40	26.27		
100	QPSK	135	69	26.05	26.44	26.34	27.0	0.0
100	QPSK	135	138	25.99	26.41	26.29	27.0	0.0
100	QPSK	270	0	26.07	26.41	26.33	27.0	0.0
100	16QAM	1	1	26.02	26.44	26.30	27.0	0.0
100	16QAM	1	1	24.33	24.73	24.59	25.0	2.0
100	256QAM	1	1	22.89	23.27	23.26	23.5	3.5
Channel								
Frequency (MHz)								
				648668	656000	664332		
90	QPSK	1	1	25.97	26.36	26.27	27.0	0.0
Channel								
Frequency (MHz)								
				648334	656000	662666		
80	QPSK	1	1	26.10	26.34	26.29	27.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	663000		
70	QPSK	1	1	25.09	26.38	26.26	27.0	0.0
Channel								
Frequency (MHz)								
				648668	656000	664332		
60	QPSK	1	1	25.07	26.42	26.28	27.0	0.0
Channel								
Frequency (MHz)								
				3728.01	3840	3964.99		
50	QPSK	1	1	25.99	26.37	26.37	27.0	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	26.00	26.41	26.37	27.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	26.07	26.37	26.35	27.0	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	26.02	26.35	26.37	27.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	26.02	26.42	26.31	27.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	26.08	26.33	26.36	27.0	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)								
				3750	3840	3930		
100	Pi2 BPSK	1	1	18.92	19.28	19.46		
100	Pi2 BPSK	1	137	18.95	19.32	19.43	20.5	0.0
100	Pi2 BPSK	1	271	18.90	19.25	19.47		
100	Pi2 BPSK	135	0	19.01	19.32	19.41	20.5	0.0
100	Pi2 BPSK	135	69	18.89	19.26	19.43	20.5	0.0
100	Pi2 BPSK	135	138	18.89	19.23	19.43	20.5	0.0
100	Pi2 BPSK	270	0	18.89	19.33	19.47		
100	QPSK	1	1	19.03	19.36	19.33		
100	QPSK	1	137	18.98	19.35	19.47	20.5	0.0
100	QPSK	1	271	18.97	19.26	19.44		
100	QPSK	135	0	18.91	19.21	19.40		
100	QPSK	135	69	19.02	19.32	19.48	20.5	0.0
100	QPSK	135	138	18.97	19.23	19.41	20.5	0.0
100	QPSK	270	0	19.02	19.35	19.48	20.5	0.0
100	16QAM	1	1	18.90	19.35	19.41	20.5	0.0
100	16QAM	1	1	18.90	19.30	19.40	20.5	0.0
100	256QAM	1	1	18.99	19.33	19.38	20.5	0.0
Channel								
Frequency (MHz)								
				648668	656000	664332		
90	QPSK	1	1	18.98	19.31	19.44	20.5	0.0
Channel								
Frequency (MHz)								
				648334	656000	662666		
80	QPSK	1	1	18.98	19.29	19.42	20.5	0.0
Channel								
Frequency (MHz)								
				648000	656000	663000		
70	QPSK	1	1	18.95	19.22	19.33	20.5	0.0
Channel								
Frequency (MHz)								
				648668	656000	664332		
60	QPSK	1	1	19.00	19.31	19.52	20.5	0.0
Channel								
Frequency (MHz)								
				3728.01	3840	3964.99		
50	QPSK	1	1	18.99	19.27	19.50	20.5	0.0
Channel								
Frequency (MHz)								
				648000	656000	664000		
40	QPSK	1	1	19.00	19.24	19.46	20.5	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	18.94	19.21	19.40	20.5	0.0
Channel								
Frequency (MHz)								
				647334	656000	664666		
20	QPSK	1	1	18.99	19.21	19.50	20.5	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	18.92	19.23	19.43	20.5	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975		
10	QPSK	1	1	18.92	19.34	19.50	20.5	0.0



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Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across various frequency bands.

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Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across various frequency bands.

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Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across various frequency bands.



Part270_n78_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.26						
100	PI2 BPSK	1	137	19.27			20.0	0.0		
100	PI2 BPSK	1	271	19.24						
100	PI2 BPSK	135	0	19.19			19.5	0.5		
100	PI2 BPSK	135	69	19.21			20.0	0.0		
100	PI2 BPSK	135	138	19.18			19.5	0.5		
100	PI2 BPSK	270	0	19.24						
100	QPSK	1	1	19.29						
100	QPSK	1	137	18.84			20.0	0.0		
100	QPSK	1	271	18.84						
100	QPSK	135	0	18.12						
100	QPSK	135	69	18.72			20.0	0.0		
100	QPSK	135	138	18.05						
100	QPSK	270	0	17.98			18.0	1.0		
100	16QAM	1	1	18.29			19.0	1.0		
100	64QAM	1	1	18.72			18.0	2.0		
100	256QAM	1	1	18.88			17.0	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	19.27	19.22	19.16	20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.16	19.23	19.22	20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.29	19.16	19.27	20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.20	19.14	19.23	20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.15	19.18	19.16	20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.25	19.17	19.22	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.16	19.26	19.16	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.14	19.15	19.27	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.18	19.19	19.25	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.20	19.23	19.16	20.0	0.0		

Part270(HPUE)_n78_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.05						
100	PI2 BPSK	1	137	21.07			22.0	0.0		
100	PI2 BPSK	1	271	21.03						
100	PI2 BPSK	135	0	21.08			21.5	0.5		
100	PI2 BPSK	135	69	21.07			22.0	0.0		
100	PI2 BPSK	135	138	21.04			21.5	0.5		
100	PI2 BPSK	270	0	21.06						
100	QPSK	1	1	21.09						
100	QPSK	1	137	20.79			22.0	0.0		
100	QPSK	1	271	20.41						
100	QPSK	135	0	20.06						
100	QPSK	135	69	20.82			22.0	0.0		
100	QPSK	135	138	19.72						
100	QPSK	270	0	19.84			21.0	1.0		
100	16QAM	1	1	20.12			21.0	1.0		
100	64QAM	1	1	18.42			19.5	2.5		
100	256QAM	1	1	17.89			18.0	4.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.00	21.07	20.05	22.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.05	20.99	20.97	22.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.08	21.02	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.04	20.98	21.05	22.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.97	21.00	21.05	22.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.97	20.98	21.06	22.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.08	20.97	21.03	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.03	20.95	21.02	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.94	21.00	21.00	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.95	20.95	21.00	22.0	0.0		

Part270_n78_Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.88						
100	PI2 BPSK	1	137	22.96			24.0	0.0		
100	PI2 BPSK	1	271	23.04						
100	PI2 BPSK	135	0	22.95			24.0	0.0		
100	PI2 BPSK	135	69	22.96			24.0	0.0		
100	PI2 BPSK	135	138	23.03			24.0	0.0		
100	PI2 BPSK	270	0	22.92						
100	QPSK	1	1	23.11						
100	QPSK	1	137	23.05			24.0	0.0		
100	QPSK	1	271	23.03						
100	QPSK	135	0	22.95						
100	QPSK	135	69	23.04			24.0	0.0		
100	QPSK	135	138	23.01						
100	QPSK	270	0	23.01			24.0	0.0		
100	16QAM	1	1	22.95			24.0	0.0		
100	64QAM	1	1	21.88			22.5	1.5		
100	256QAM	1	1	20.85			21.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	23.07	23.02	23.02	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.03	23.01	23.00	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.05	22.98	22.97	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.97	23.04	23.00	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.09	23.02	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.98	23.05	23.07	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.02	23.06	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.10	22.95	23.10	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.09	23.03	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.03	23.10	23.09	24.0	0.0		



Part270(HPUE)_n78_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3750	3750		
100	PI2 BPSK	1	1	25.77				
100	PI2 BPSK	1	137	25.84			27.0	0.0
100	PI2 BPSK	1	271	25.81				
100	PI2 BPSK	135	0	25.82			26.5	0.5
100	PI2 BPSK	135	69	25.81			27.0	0.0
100	PI2 BPSK	135	138	25.84			26.5	0.5
100	PI2 BPSK	270	0	25.81				
100	QPSK	1	1	25.85				
100	QPSK	1	137	25.84			27.0	0.0
100	QPSK	1	271	25.99				
100	QPSK	135	0	25.13				
100	QPSK	135	69	25.81			27.0	0.0
100	QPSK	135	138	24.88			26.0	1.0
100	QPSK	270	0	25.01			26.0	1.0
100	16QAM	1	1	25.33			26.0	1.0
100	16QAM	1	1	23.52			24.5	2.5
100	256QAM	1	1	22.38			22.5	4.5
Channel								
Frequency (MHz)								
				648668	650000	652332		
				3745.02	3750	3754.98		
90	QPSK	1	1	25.79	25.74	25.70	27.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666		
				3745.01	3750	3754.99		
80	QPSK	1	1	25.80	25.81	25.84	27.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000		
				3735	3750	3765		
70	QPSK	1	1	25.10	25.83	25.72	27.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	651332		
				3730.02	3750	3759.98		
60	QPSK	1	1	24.13	24.76	24.01	27.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	651666		
				3725.01	3750	3774.99		
50	QPSK	1	1	25.79	25.73	25.86	27.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	652000		
				3750	3750	3750		
40	QPSK	1	1	25.79	25.70	25.82	27.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652332		
				3718.02	3750	3782.98		
30	QPSK	1	1	25.76	25.71	25.80	27.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666		
				3713.01	3750	3787.99		
20	QPSK	1	1	25.71	25.81	25.76	27.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652832		
				3707.52	3750	3792.48		
15	QPSK	1	1	25.78	25.81	25.76	27.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000		
				3705	3750	3795		
10	QPSK	1	1	25.79	25.79	25.81	27.0	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)								
				3750				
100	PI2 BPSK	1	1	19.33				
100	PI2 BPSK	1	137	19.34			20.5	0.0
100	PI2 BPSK	1	271	19.36				
100	PI2 BPSK	135	0	19.25			20.5	0.0
100	PI2 BPSK	135	69	19.37			20.5	0.0
100	PI2 BPSK	135	138	19.34			20.5	0.0
100	PI2 BPSK	270	0	19.35				
100	QPSK	1	1	19.38				
100	QPSK	1	137	19.27			20.5	0.0
100	QPSK	1	271	19.23				
100	QPSK	135	0	19.25				
100	QPSK	135	69	19.24			20.5	0.0
100	QPSK	135	138	19.24				
100	QPSK	270	0	19.27			20.5	0.0
100	16QAM	1	1	19.26			20.5	0.0
100	16QAM	1	1	19.32			20.5	0.0
100	256QAM	1	1	19.38			20.5	0.0
Channel								
Frequency (MHz)								
				648668	650000	652332		
				3745.02	3750	3754.98		
90	QPSK	1	1	19.33	19.23	19.25	20.5	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666		
				3745.01	3750	3754.99		
80	QPSK	1	1	19.32	19.16	19.19	20.5	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000		
				3735	3750	3765		
70	QPSK	1	1	19.28	19.19	19.20	20.5	0.0
Channel								
Frequency (MHz)								
				648668	650000	651332		
				3730.02	3750	3759.98		
60	QPSK	1	1	19.28	19.11	19.17	20.5	0.0
Channel								
Frequency (MHz)								
				648334	650000	651666		
				3725.01	3750	3774.99		
50	QPSK	1	1	19.25	19.19	19.18	20.5	0.0
Channel								
Frequency (MHz)								
				649000	650000	652000		
				3750	3750	3750		
40	QPSK	1	1	19.24	19.17	19.21	20.5	0.0
Channel								
Frequency (MHz)								
				647668	650000	652332		
				3718.02	3750	3782.98		
30	QPSK	1	1	19.30	19.20	19.21	20.5	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666		
				3713.01	3750	3787.99		
20	QPSK	1	1	19.25	19.21	19.12	20.5	0.0
Channel								
Frequency (MHz)								
				647168	650000	652832		
				3707.52	3750	3792.48		
15	QPSK	1	1	19.23	19.09	19.15	20.5	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000		
				3705	3750	3795		
10	QPSK	1	1	19.32	19.22	19.19	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750				
100	PI2 BPSK	1	1	22.22				
100	PI2 BPSK	1	137	22.28			23.5	0.0
100	PI2 BPSK	1	271	22.27				
100	PI2 BPSK	135	0	22.15			23.5	0.0
100	PI2 BPSK	135	69	22.25			23.5	0.0
100	PI2 BPSK	135	138	22.20			23.5	0.0
100	PI2 BPSK	270	0	22.27				
100	QPSK	1	1	22.29				
100	QPSK	1	137	22.21			23.5	0.0
100	QPSK	1	271	22.18				
100	QPSK	135	0	22.23				
100	QPSK	135	69	22.27			23.5	0.0
100	QPSK	135	138	22.24				
100	QPSK	270	0	22.29			23.5	0.0
100	16QAM	1	1	22.22			23.5	0.0
100	16QAM	1	1	22.15			23.5	0.0
100	256QAM	1	1	22.01			23.0	0.5
Channel								
Frequency (MHz)								
				648668	650000	652332		
				3745.02	3750	3754.98		
90	QPSK	1	1	22.19	22.25	22.17	23.5	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666		
				3745.01	3750	3754.99		
80	QPSK	1	1	22.18	22.15	22.08	23.5	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000		
				3735	3750	3765		
70	QPSK	1	1	22.04	22.19	22.16	23.5	0.0
Channel								
Frequency (MHz)								
				648668	650000	651332		
				3730.02	3750	3759.98		
60	QPSK	1	1	22.04	22.17	22.04	23.5	0.0
Channel								
Frequency (MHz)								
				648334	650000	651666		
				3725.01	3750	3774.99		
50	QPSK	1	1	22.07	22.22	22.02	23.5	0.0
Channel								
Frequency (MHz)								
				649000	650000	652000		
				3750	3750	3750		
40	QPSK	1	1	22.12	22.12	22.09	23.5	0.0
Channel								
Frequency (MHz)								
				647668	650000	652332		
				3718.02	3750	3782.98		
30	QPSK	1	1	22.18	22.21	22.13	23.5	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666		
				3713.01	3750	3787.99		
20	QPSK	1	1	22.09	22.21	22.15	23.5	0.0
Channel								
Frequency (MHz)								
				647168	650000	652832		
				3707.52	3750	3792.48		
15	QPSK	1	1	22.06	22.19	22.12	23.5	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000		
				3705	3750	3795		
10	QPSK	1	1	22.10	22.16	22.05	23.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	65000	3750	3750			
100	P2BPSK	1	137	20,26	20,26	20,26	21.0	0.0	
100	P2BPSK	1	211	20,13	20,13	20,13			
100	P2BPSK	135	0	20,22	20,22	20,22	21.0	0.0	
100	P2BPSK	135	69	20,27	20,27	20,27	21.0	0.0	
100	P2BPSK	135	138	20,23	20,23	20,23	21.0	0.0	
100	P2BPSK	203	0	20,20	20,20	20,20			
100	QPSK	1	1	65000	3750	3750			
100	QPSK	1	137	20,14	20,14	20,14	21.0	0.0	
100	QPSK	1	211	20,05	20,05	20,05			
100	QPSK	135	0	20,28	20,28	20,28			
100	QPSK	135	69	20,12	20,12	20,12	21.0	0.0	
100	QPSK	135	138	19,22	19,22	19,22			
100	QPSK	270	0	19,24	19,24	19,24	20.0	1.0	
100	16QAM	1	1	19,32	19,32	19,32	20.0	1.0	
100	64QAM	1	1	17,73	17,73	17,73	18.5	2.5	
100	256QAM	1	1	17,08	17,08	17,08	17.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20,36	20,26	20,29	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20,34	20,34	20,26	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20,33	20,33	20,30	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20,21	20,24	20,24	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20,35	20,28	20,31	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20,34	20,24	20,30	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20,24	20,24	20,36	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20,25	20,37	20,25	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20,33	20,23	20,33	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20,32	20,37	20,37	21.0	0.0	

Part270(HPUE)_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	65000	3750	3750			
100	P2BPSK	1	137	21,91	21,91	21,91			
100	P2BPSK	1	211	22,05	22,05	22,05	23.0	0.0	
100	P2BPSK	135	0	21,79	21,79	21,79	22.5	0.5	
100	P2BPSK	135	69	22,05	22,05	22,05	23.0	0.0	
100	P2BPSK	135	138	21,79	21,79	21,79	22.5	0.5	
100	P2BPSK	203	0	21,73	21,73	21,73			
100	QPSK	1	1	65000	3750	3750			
100	QPSK	1	137	22,25	22,25	22,25	23.0	0.0	
100	QPSK	1	211	22,16	22,16	22,16			
100	QPSK	135	0	21,47	21,47	21,47			
100	QPSK	135	69	22,32	22,32	22,32	23.0	0.0	
100	QPSK	135	138	21,36	21,36	21,36			
100	QPSK	270	0	21,41	21,41	21,41	22.0	1.0	
100	16QAM	1	1	21,33	21,33	21,33	22.0	1.0	
100	64QAM	1	1	18,68	18,68	18,68	20.5	2.5	
100	256QAM	1	1	18,20	18,20	18,20	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22,29	22,30	22,26	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22,24	22,22	22,22	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22,23	22,24	22,25	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22,21	22,21	22,21	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22,28	22,24	22,25	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22,28	22,23	22,31	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22,21	22,23	22,32	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22,23	22,30	22,32	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22,23	22,30	22,32	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22,27	22,29	22,33	23.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.98	23.12	23.10	24.0	0.0	
20	PI2 BPSK	1	51	22.99	23.08	22.99			
20	PI2 BPSK	1	104	22.93	22.98	22.88			
20	PI2 BPSK	50	0	22.99	23.11	23.03	24.0	0.0	
20	PI2 BPSK	50	28	22.96	23.03	23.00	24.0	0.0	
20	PI2 BPSK	50	56	22.93	23.06	23.00	24.0	0.0	
20	PI2 BPSK	100	0	22.97	23.05	23.02	24.0	0.0	
20	QPSK	1	1	23.12	23.18	23.05	24.0	0.0	
20	QPSK	1	51	22.89	23.02	22.87			
20	QPSK	1	104	22.87	22.92	22.83			
20	QPSK	50	0	22.95	23.07	22.94	24.0	0.0	
20	QPSK	50	28	23.07	23.11	23.03	24.0	0.0	
20	QPSK	50	56	22.90	23.04	22.92	24.0	0.0	
20	QPSK	100	0	22.95	23.05	23.04	24.0	0.0	
20	16QAM	1	1	22.95	23.11	23.07	24.0	0.0	
20	64QAM	1	1	21.54	21.68	21.56	22.5	1.5	
20	256QAM	1	1	20.03	20.07	19.99	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.88	23.09	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.03	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.05	23.03	24.0	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)	MFR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.71	22.81	22.80	24.0	0.0	
20	PI2 BPSK	1	51	22.76	22.81	22.77			
20	PI2 BPSK	1	104	22.61	22.68	22.53			
20	PI2 BPSK	50	0	22.82	22.88	22.78	24.0	0.0	
20	PI2 BPSK	50	28	22.76	22.79	22.74	24.0	0.0	
20	PI2 BPSK	50	56	22.67	22.75	22.71	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.83	22.81	24.0	0.0	
20	QPSK	1	1	22.83	22.91	22.87	24.0	0.0	
20	QPSK	1	51	22.69	22.63	22.61			
20	QPSK	1	104	22.65	22.74	22.61			
20	QPSK	50	0	22.72	22.78	22.67	24.0	0.0	
20	QPSK	50	28	22.72	22.87	22.61	24.0	0.0	
20	QPSK	50	56	22.65	22.68	22.61	24.0	0.0	
20	QPSK	100	0	22.71	22.77	22.63	24.0	0.0	
20	16QAM	1	1	22.50	22.60	22.56	24.0	0.0	
20	64QAM	1	1	21.00	21.07	20.99	22.0	2.0	
20	256QAM	1	1	19.84	19.85	19.84	20.5	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.76	22.78	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.77	22.80	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.70	22.83	22.74	24.0	0.0	



n38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				2599.02	2595	2599.98				
40	PI2 BPSK	1	1	18.97	18.95	19.03				
40	PI2 BPSK	1	53	19.02	19.00	19.00	20.5	0.0		
40	PI2 BPSK	1	104	18.93	19.06	19.06				
40	PI2 BPSK	50	0	18.99	19.03	19.06	20.5	0.0		
40	PI2 BPSK	50	28	19.05	18.95	18.97	20.5	0.0		
40	PI2 BPSK	50	56	19.01	18.97	18.98	20.5	0.0		
40	PI2 BPSK	100	0	19.01	18.97	19.01				
40	QPSK	1	1	19.07	19.10	19.07				
40	QPSK	1	53	19.06	18.95	19.01	20.5	0.0		
40	QPSK	1	104	18.93	19.06	19.04				
40	QPSK	50	0	18.95	19.01	18.92	20.5	0.0		
40	QPSK	50	28	19.03	19.06	19.02	20.5	0.0		
40	QPSK	50	56	19.00	19.03	18.92	20.5	0.0		
40	QPSK	100	0	19.00	19.04	18.96	20.5	0.0		
40	16QAM	1	1	19.00	19.03	18.96	20.5	0.0		
40	16QAM	1	1	18.96	19.09	19.01	20.5	0.0		
40	256QAM	1	1	18.08	18.21	18.18	19.5	1.0		
Channel										
Frequency (MHz)										
				2583.01	2595	2604.99				
30	QPSK	1	1	18.84	19.08	18.94	20.5	0.0		
Channel										
Frequency (MHz)										
				5160.00	518000	521480				
25	QPSK	1	1	19.04	18.97	18.93	20.5	0.0		
Channel										
Frequency (MHz)										
				516000	518000	520000				
20	QPSK	1	1	18.96	19.09	18.94	20.5	0.0		
Channel										
Frequency (MHz)										
				515802	518000	522498				
15	QPSK	1	1	20.77	20.95	20.72	20.5	0.0		
Channel										
Frequency (MHz)										
				515000	518000	522000				
10	QPSK	1	1	19.01	18.97	19.01	20.5	0.0		
Channel										
Frequency (MHz)										
				2372.5	2395	2372.5				
5	QPSK	1	1	18.93	19.02	19.02	20.5	0.0		

n41_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				2546.01	2592.99	2640				
100	PI2 BPSK	1	1	19.12	19.28	19.05				
100	PI2 BPSK	1	137	19.18	19.20	19.11	20.5	0.0		
100	PI2 BPSK	1	271	19.15	19.30	19.05				
100	PI2 BPSK	135	0	19.13	19.22	19.03	20.5	0.0		
100	PI2 BPSK	135	69	19.20	19.24	19.11	20.5	0.0		
100	PI2 BPSK	135	138	19.13	19.22	19.02	20.5	0.0		
100	PI2 BPSK	270	0	19.24	19.23	19.14				
100	QPSK	1	1	19.24	19.33	19.14				
100	QPSK	1	137	19.16	19.24	19.12	20.5	0.0		
100	QPSK	1	271	19.16	19.23	19.13				
100	QPSK	135	0	19.11	19.21	19.05				
100	QPSK	135	69	19.19	19.30	19.13	20.5	0.0		
100	QPSK	135	138	19.17	19.19	18.99	20.5	0.0		
100	QPSK	270	0	19.14	19.36	19.01	20.5	0.0		
100	16QAM	1	1	19.13	19.32	19.12	20.5	0.0		
100	16QAM	1	1	19.18	19.21	19.01	20.5	0.0		
100	256QAM	1	1	18.53	18.56	18.48	19.5	1.0		
Channel										
Frequency (MHz)										
				305202	310950	320950				
80	QPSK	1	1	19.13	19.25	19.07	20.5	0.0		
Channel										
Frequency (MHz)										
				307204	318598	320998				
80	QPSK	1	1	19.11	19.20	19.07	20.5	0.0		
Channel										
Frequency (MHz)										
				506202	518598	531000				
70	QPSK	1	1	19.23	19.24	19.03	20.5	0.0		
Channel										
Frequency (MHz)										
				505000	518598	531998				
60	QPSK	1	1	20.26	20.92	20.93	20.5	0.0		
Channel										
Frequency (MHz)										
				504204	518598	532000				
50	QPSK	1	1	19.18	19.21	19.12	20.5	0.0		
Channel										
Frequency (MHz)										
				2916.01	2992.99	2970				
40	QPSK	1	1	19.18	19.19	19.10	20.5	0.0		
Channel										
Frequency (MHz)										
				502704	518598	534498				
35	QPSK	1	1	19.12	19.21	19.04	20.5	0.0		
Channel										
Frequency (MHz)										
				502200	518598	534998				
30	QPSK	1	1	19.15	19.22	19.02	20.5	0.0		
Channel										
Frequency (MHz)										
				2506.02	2592.99	2679.99				
20	QPSK	1	1	19.19	19.27	19.07	20.5	0.0		
Channel										
Frequency (MHz)										
				5093.5	2592.99	2682.48				
15	QPSK	1	1	19.10	19.29	19.13	20.5	0.0		
Channel										
Frequency (MHz)										
				300202	318598	337000				
10	QPSK	1	1	20.01	20.92	20.85	20.5	0.0		
Channel										
Frequency (MHz)										
				19.12	19.21	19.00	20.5	0.0		

Part270_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				3790	3840	3930				
100	PI2 BPSK	1	1	20.71	21.04	20.91				
100	PI2 BPSK	1	137	20.66	21.06	20.94	22.0	0.0		
100	PI2 BPSK	1	271	20.73	21.05	20.92				
100	PI2 BPSK	135	0	20.65	21.06	21.01	22.0	0.0		
100	PI2 BPSK	135	69	20.60	21.02	20.89	22.0	0.0		
100	PI2 BPSK	135	138	20.67	21.01	20.86	22.0	0.0		
100	PI2 BPSK	270	0	20.67	21.02	20.91				
100	QPSK	1	1	20.75	21.07	20.95				
100	QPSK	1	137	20.56	20.97	20.84	22.0	0.0		
100	QPSK	1	271	20.56	21.05	20.95				
100	QPSK	135	0	19.92	20.21	20.06				
100	QPSK	135	69	20.35	20.38	20.31	22.0	0.0		
100	QPSK	135	138	19.93	20.37	20.25	22.0	0.0		
100	QPSK	270	0	19.89	20.34	20.18	21.0	1.0		
100	16QAM	1	1	19.61	19.98	19.86	21.0	1.0		
100	16QAM	1	1	18.34	18.73	18.70	19.5	2.5		
100	256QAM	1	1	17.34	17.74	17.83	18.0	4.0		
Channel										
Frequency (MHz)										
				646668	656000	663332				
80	QPSK	1	1	20.65	20.99	20.81	22.0	0.0		
Channel										
Frequency (MHz)										
				646334	656000	662998				
80	QPSK	1	1	20.64	21.06	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
				646000	656000	663000				
70	QPSK	1	1	20.65	20.94	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
				646000	656000	663000				
70	QPSK	1	1	20.62	20.95	20.92	22.0	0.0		
Channel										
Frequency (MHz)										
				646668	656000	663332				
60	QPSK	1	1	37.02	38.40	38.93	20.5	0.0		
Channel										
Frequency (MHz)										
				646334	656000	663000				
50	QPSK	1	1	20.63	21.01	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
				3790	3840	3930				
40	QPSK	1	1	20.60	21.05	20.83	22.0	0.0		
Channel										
Frequency (MHz)										
				647968	656000	664332				
30	QPSK	1	1	20.71	20.92	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
				647334	656000	664668				
20	QPSK	1	1	20.65	20.98	20.82	22.0	0.0		
Channel										
Frequency (MHz)										
				647168	656000	664832				
15	QPSK	1	1	20.66	20.99	20.82	22.0	0.0		
Channel										
Frequency (MHz)										
				3795	3840	3975				
10	QPSK	1	1	20.62	20.94	20.84	22.0	0.0		

**Part270(HPUE)_n77_Ant 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3760	3840	3930		
100	Pl2 BPSK	1	1	22.49	23.03	22.87		
100	Pl2 BPSK	1	137	22.36	23.01	22.84	24.0	0.0
100	Pl2 BPSK	1	211	22.36	22.92	22.72		
100	Pl2 BPSK	135	0	22.44	22.98	22.82	23.5	0.0
100	Pl2 BPSK	135	69	22.39	23.01	22.82	24.0	0.0
100	Pl2 BPSK	135	138	22.26	22.89	22.72	23.5	0.0
100	Pl2 BPSK	230	0	22.37	22.97	22.73		
100	QPSK	1	1	22.49	23.06	22.82		
100	QPSK	1	137	22.22	22.83	22.86	24.0	0.0
100	QPSK	1	211	22.41	22.96	22.77		
100	QPSK	135	0	21.99	22.19	21.96		
100	QPSK	135	69	22.30	22.92	22.76	24.0	0.0
100	QPSK	135	138	21.89	22.10	21.86		
100	QPSK	230	0	21.57	22.06	21.94	23.0	1.0
100	16QAM	1	1	21.40	21.95	21.73	23.0	1.0
100	16QAM	1	1	19.96	20.58	20.37	21.5	2.5
100	256QAM	1	1	19.26	19.82	19.60	20.0	4.0
Channel								
Frequency (MHz)								
				3745.02	3840	3934.98		
80	QPSK	1	1	22.41	22.99	22.77	24.0	0.0
Channel								
Frequency (MHz)								
				649334	656000	662666		
80	QPSK	1	1	22.48	22.96	22.78	24.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	22.43	22.98	22.87	24.0	0.0
Channel								
Frequency (MHz)								
				648668	656000	663332		
60	QPSK	1	1	22.38	23.03	22.71	24.0	0.0
Channel								
Frequency (MHz)								
				3723.01	3840	3964.99		
50	QPSK	1	1	22.44	22.93	22.67	24.0	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	22.47	23.04	22.86	24.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	22.45	22.99	22.67	24.0	0.0
Channel								
Frequency (MHz)								
				3712.01	3840	3954.99		
20	QPSK	1	1	22.48	22.98	22.74	24.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	22.44	23.03	22.69	24.0	0.0
Channel								
Frequency (MHz)								
				3707.52	3840	3972.48		
10	QPSK	1	1	22.47	23.05	22.78	24.0	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)								
				3790	3840	3930		
100	Pl2 BPSK	1	1	21.21	21.49	21.46		
100	Pl2 BPSK	1	137	21.28	21.45	21.49	22.0	0.0
100	Pl2 BPSK	1	211	21.26	21.54	21.42		
100	Pl2 BPSK	135	0	21.17	21.53	21.50	22.0	0.0
100	Pl2 BPSK	135	69	21.18	21.55	21.41	22.0	0.0
100	Pl2 BPSK	135	138	21.29	21.57	21.47	22.0	0.0
100	Pl2 BPSK	230	0	21.22	21.47	21.45		
100	QPSK	1	1	21.31	21.59	21.51		
100	QPSK	1	137	21.22	21.52	21.49	22.0	0.0
100	QPSK	1	211	21.21	21.46	21.45		
100	QPSK	135	0	21.22	21.51	21.38		
100	QPSK	135	69	21.26	21.54	21.43	22.0	0.0
100	QPSK	135	138	21.29	21.46	21.40	22.0	0.0
100	QPSK	230	0	21.17	21.49	21.47	22.0	0.0
100	16QAM	1	1	21.30	21.51	21.36	22.0	0.0
100	16QAM	1	1	21.20	21.46	21.48	22.0	0.0
100	256QAM	1	1	21.18	21.52	21.48	22.0	0.0
Channel								
Frequency (MHz)								
				3745.02	3840	3934.98		
80	QPSK	1	1	21.16	21.55	21.37	22.0	0.0
Channel								
Frequency (MHz)								
				649334	656000	662666		
80	QPSK	1	1	21.28	21.52	21.47	22.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	21.28	21.44	21.42	22.0	0.0
Channel								
Frequency (MHz)								
				648668	656000	663332		
60	QPSK	1	1	21.26	21.52	21.47	22.0	0.0
Channel								
Frequency (MHz)								
				3723.01	3840	3964.99		
50	QPSK	1	1	21.20	21.44	21.38	22.0	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	21.26	21.54	21.36	22.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	21.23	21.50	21.38	22.0	0.0
Channel								
Frequency (MHz)								
				3712.01	3840	3954.99		
20	QPSK	1	1	21.29	21.58	21.44	22.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	21.16	21.57	21.45	22.0	0.0
Channel								
Frequency (MHz)								
				3707.52	3840	3972.48		
10	QPSK	1	1	21.23	21.57	21.48	22.0	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)								
				3790	3840	3930		
100	Pl2 BPSK	1	1	24.05	24.34	24.26		
100	Pl2 BPSK	1	137	24.04	24.43	24.24	25.0	0.0
100	Pl2 BPSK	1	211	24.11	24.45	24.22		
100	Pl2 BPSK	135	0	24.09	24.31	24.20	25.0	0.0
100	Pl2 BPSK	135	69	24.10	24.32	24.31	25.0	0.0
100	Pl2 BPSK	135	138	24.00	24.44	24.31	25.0	0.0
100	Pl2 BPSK	230	0	24.01	24.39	24.29		
100	QPSK	1	1	24.13	24.46	24.38		
100	QPSK	1	137	24.05	24.34	24.19	25.0	0.0
100	QPSK	1	211	23.99	24.36	24.27		
100	QPSK	135	0	24.00	24.36	24.32		
100	QPSK	135	69	24.05	24.43	24.31	25.0	0.0
100	QPSK	135	138	24.01	24.34	24.29	25.0	0.0
100	QPSK	230	0	24.03	24.38	24.32	25.0	0.0
100	16QAM	1	1	24.03	24.38	24.32	25.0	0.0
100	16QAM	1	1	24.02	24.41	24.26	23.5	1.5
100	256QAM	1	1	22.89	23.27	23.26	23.5	1.5
Channel								
Frequency (MHz)								
				3745.02	3840	3934.98		
80	QPSK	1	1	24.02	24.39	24.28	25.0	0.0
Channel								
Frequency (MHz)								
				649334	656000	662666		
80	QPSK	1	1	24.12	24.43	24.29	25.0	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	24.09	24.33	24.28	25.0	0.0
Channel								
Frequency (MHz)								
				648668	656000	663332		
60	QPSK	1	1	24.07	24.43	24.29	25.0	0.0
Channel								
Frequency (MHz)								
				3723.01	3840	3964.99		
50	QPSK	1	1	24.07	24.43	24.29	25.0	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	24.06	24.36	24.22	25.0	0.0
Channel								
Frequency (MHz)								
				647668	656000	664332		
30	QPSK	1	1	24.03	24.33	24.26	25.0	0.0
Channel								
Frequency (MHz)								
				3712.01	3840	3954.99		
20	QPSK	1	1	23.99	24.33	24.22	25.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664832		
15	QPSK	1	1	23.99	24.37	24.19	25.0	0.0
Channel								
Frequency (MHz)								
				3707.52	3840	3972.48		
10	QPSK	1	1	24.01	24.41	24.31	25.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.09	20.40	20.61		
100	PI2 BPSK	1	137	20.10	20.43	20.51	21.0	0.0
100	PI2 BPSK	1	211	20.10	20.44	20.53		
100	PI2 BPSK	135	0	20.20	20.37	20.64	21.0	0.0
100	PI2 BPSK	135	69	20.11	20.46	20.53		
100	PI2 BPSK	135	138	20.18	20.38	20.61	21.0	0.0
100	PI2 BPSK	230	0	20.11	20.38	20.60		
100	QPSK	1	1	20.21	20.50	20.66		
100	QPSK	1	137	20.09	20.39	20.60	21.0	0.0
100	QPSK	1	211	20.16	20.36	20.56		
100	QPSK	135	0	20.11	20.37	20.63		
100	QPSK	135	69	20.17	20.45	20.60	21.0	0.0
100	QPSK	135	138	20.08	20.39	20.58		
100	QPSK	230	0	20.20	20.46	20.55	21.0	0.0
100	16QAM	1	1	20.15	20.48	20.57	21.0	0.0
100	16QAM	1	1	19.35	19.76	19.81	21.0	0.0
100	256QAM	1	1	17.99	18.40	18.39	19.5	1.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.16	20.48	20.53	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.12	20.43	20.64	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.15	20.43	20.57	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.15	20.44	20.53	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.19	20.43	20.51	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.08	20.47	20.57	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.18	20.36	20.57	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.11	20.47	20.55	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.14	20.47	20.64	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.06	20.36	20.57	21.0	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)								
100	PI2 BPSK	1	1	22.07	22.39	22.37		
100	PI2 BPSK	1	137	22.01	22.43	22.44	23.0	0.0
100	PI2 BPSK	1	211	22.15	22.46	22.44		
100	PI2 BPSK	135	0	21.71	22.06	22.05	22.5	0.5
100	PI2 BPSK	135	69	22.05	22.44	22.42	23.0	0.0
100	PI2 BPSK	135	138	21.72	22.12	22.16	22.5	0.5
100	PI2 BPSK	230	0	21.73	22.15	22.16		
100	QPSK	1	1	22.03	22.40	22.51		
100	QPSK	1	137	21.94	22.33	22.36	23.0	0.0
100	QPSK	1	211	21.90	22.32	22.41		
100	QPSK	135	0	21.20	21.59	21.67		
100	QPSK	135	69	22.01	22.36	22.46	23.0	0.0
100	QPSK	135	138	21.30	21.63	21.68		
100	QPSK	230	0	21.16	21.61	21.71	22.0	1.0
100	16QAM	1	1	21.31	21.65	21.63	22.0	1.0
100	16QAM	1	1	19.35	19.76	19.81	21.0	2.0
100	256QAM	1	1	17.99	18.40	18.39	19.0	4.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.93	22.29	22.37	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.92	22.29	22.48	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.00	22.29	22.42	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.97	22.36	22.48	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.92	22.26	22.38	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.89	22.29	22.37	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.98	22.26	22.36	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.94	22.34	22.37	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.99	22.28	22.40	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.95	22.30	22.45	23.0	0.0

Part270_n78_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1					
100	PI2 BPSK	1	137				20.0	0.0
100	PI2 BPSK	1	211				19.24	
100	PI2 BPSK	135	0				19.5	0.5
100	PI2 BPSK	135	69				20.21	0.0
100	PI2 BPSK	135	138				19.5	0.5
100	PI2 BPSK	230	0				19.24	
100	QPSK	1	1				19.29	
100	QPSK	1	137				18.84	20.0
100	QPSK	1	211				18.63	
100	QPSK	135	0				18.12	
100	QPSK	135	69				18.72	20.0
100	QPSK	135	138				18.05	
100	QPSK	230	0				17.86	19.0
100	16QAM	1	1				18.29	19.0
100	16QAM	1	1				16.72	18.0
100	256QAM	1	1				15.88	17.0
Channel								
Frequency (MHz)								
80	QPSK	1	1				19.27	20.0
Channel								
Frequency (MHz)								
80	QPSK	1	1				19.16	20.0
Channel								
Frequency (MHz)								
70	QPSK	1	1				19.29	20.0
Channel								
Frequency (MHz)								
60	QPSK	1	1				19.29	20.0
Channel								
Frequency (MHz)								
50	QPSK	1	1				19.15	20.0
Channel								
Frequency (MHz)								
40	QPSK	1	1				19.25	20.0
Channel								
Frequency (MHz)								
30	QPSK	1	1				19.16	20.0
Channel								
Frequency (MHz)								
20	QPSK	1	1				19.14	20.0
Channel								
Frequency (MHz)								
15	QPSK	1	1				19.18	20.0
Channel								
Frequency (MHz)								
10	QPSK	1	1				19.20	20.0



Part270(HPUE)_n78_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	21.06				
100	PI2 BPSK	1	137	21.07			22.0	0.0
100	PI2 BPSK	1	271	21.08				
100	PI2 BPSK	135	0	21.08			21.5	0.5
100	PI2 BPSK	135	69	21.07			22.0	0.0
100	PI2 BPSK	135	138	21.04			21.5	0.5
100	PI2 BPSK	270	0	21.05				
100	QPSK	1	1	21.09				
100	QPSK	1	137	20.79			22.0	0.0
100	QPSK	1	271	20.41				
100	QPSK	135	0	20.06				
100	QPSK	135	69	20.82			22.0	0.0
100	QPSK	135	138	20.98				
100	QPSK	270	0	20.94			21.0	1.0
100	16QAM	1	1	20.12			21.0	1.0
100	16QAM	1	1	18.42			19.5	2.5
100	256QAM	1	1	17.69			18.0	4.0
Channel								
Frequency (MHz)				64866	65000	65032		
90	QPSK	1	1	21.00	21.07	20.95	22.0	0.0
Channel								
Frequency (MHz)				64934	65000	65066		
80	QPSK	1	1	21.05	20.99	20.97	22.0	0.0
Channel								
Frequency (MHz)				64900	65000	65100		
70	QPSK	1	1	20.99	21.02	20.94	22.0	0.0
Channel								
Frequency (MHz)				64868	65000	65132		
60	QPSK	1	1	21.04	20.98	21.05	22.0	0.0
Channel								
Frequency (MHz)				64834	65000	65166		
50	QPSK	1	1	20.97	21.00	21.06	22.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.87	20.98	21.06	22.0	0.0
Channel								
Frequency (MHz)				64768	65000	65232		
30	QPSK	1	1	21.08	20.97	21.03	22.0	0.0
Channel								
Frequency (MHz)				64734	65000	65266		
20	QPSK	1	1	21.03	20.94	21.02	22.0	0.0
Channel								
Frequency (MHz)				64768	65000	65266		
15	QPSK	1	1	20.84	21.08	21.00	22.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	20.95	20.95	21.00	22.0	0.0

Part270_n78_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	21.05				
100	PI2 BPSK	1	137	20.94			22.0	0.0
100	PI2 BPSK	1	271	21.07				
100	PI2 BPSK	135	0	21.02			22.0	0.0
100	PI2 BPSK	135	69	20.96			22.0	0.0
100	PI2 BPSK	135	138	20.96			22.0	0.0
100	PI2 BPSK	270	0	21.04				
100	QPSK	1	1	21.08				
100	QPSK	1	137	20.93			22.0	0.0
100	QPSK	1	271	20.99				
100	QPSK	135	0	21.00				
100	QPSK	135	69	21.05			22.0	0.0
100	QPSK	135	138	20.98				
100	QPSK	270	0	20.97			22.0	0.0
100	16QAM	1	1	21.01			22.0	0.0
100	16QAM	1	1	21.07			22.0	0.0
100	256QAM	1	1	20.85			21.5	0.5
Channel								
Frequency (MHz)				64868	65000	65032		
90	QPSK	1	1	20.94	20.97	20.95	22.0	0.0
Channel								
Frequency (MHz)				64934	65000	65066		
80	QPSK	1	1	20.92	20.83	20.87	22.0	0.0
Channel								
Frequency (MHz)				64900	65000	65100		
70	QPSK	1	1	20.90	20.94	20.95	22.0	0.0
Channel								
Frequency (MHz)				64868	65000	65132		
60	QPSK	1	1	20.90	20.95	20.95	22.0	0.0
Channel								
Frequency (MHz)				64834	65000	65166		
50	QPSK	1	1	20.92	20.87	20.83	22.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.89	20.95	20.82	22.0	0.0
Channel								
Frequency (MHz)				64768	65000	65232		
30	QPSK	1	1	20.85	20.86	20.81	22.0	0.0
Channel								
Frequency (MHz)				64734	65000	65266		
20	QPSK	1	1	20.85	20.92	20.84	22.0	0.0
Channel								
Frequency (MHz)				64768	65000	65266		
15	QPSK	1	1	20.80	20.89	20.88	22.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	20.86	20.91	20.81	22.0	0.0

Part270(HPUE)_n78_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	23.86				
100	PI2 BPSK	1	137	23.87			25.0	0.0
100	PI2 BPSK	1	271	23.77				
100	PI2 BPSK	135	0	23.80			25.0	0.0
100	PI2 BPSK	135	69	23.76			25.0	0.0
100	PI2 BPSK	135	138	23.86			25.0	0.0
100	PI2 BPSK	270	0	23.82				
100	QPSK	1	1	23.88				
100	QPSK	1	137	23.79			25.0	0.0
100	QPSK	1	271	23.86				
100	QPSK	135	0	23.80				
100	QPSK	135	69	23.85			25.0	0.0
100	QPSK	135	138	23.81				
100	QPSK	270	0	23.80			25.0	0.0
100	16QAM	1	1	23.75			25.0	0.0
100	16QAM	1	1	23.82			24.5	0.5
100	256QAM	1	1	22.35			22.5	2.5
Channel								
Frequency (MHz)				64868	65000	65032		
90	QPSK	1	1	23.73	23.79	23.75	25.0	0.0
Channel								
Frequency (MHz)				64934	65000	65066		
80	QPSK	1	1	23.72	23.74	23.69	25.0	0.0
Channel								
Frequency (MHz)				64900	65000	65100		
70	QPSK	1	1	23.62	23.73	23.67	25.0	0.0
Channel								
Frequency (MHz)				64868	65000	65132		
60	QPSK	1	1	23.69	23.69	23.66	25.0	0.0
Channel								
Frequency (MHz)				64834	65000	65166		
50	QPSK	1	1	23.67	23.70	23.67	25.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.67	23.68	23.66	25.0	0.0
Channel								
Frequency (MHz)				64768	65000	65232		
30	QPSK	1	1	23.68	23.76	23.62	25.0	0.0
Channel								
Frequency (MHz)				64734	65000	65266		
20	QPSK	1	1	23.62	23.75	23.68	25.0	0.0
Channel								
Frequency (MHz)				64768	65000	65266		
15	QPSK	1	1	23.62	23.77	23.72	25.0	0.0
Channel								
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.70	23.64	23.72	25.0	0.0



Part270_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	20.09	20.26	20.43	21.0	0.0	
100	P2BPSK	1	137	20.26	20.43	20.60			
100	P2BPSK	1	271	20.43	20.60	20.77			
100	P2BPSK	135	0	20.22	20.39	20.56	21.0	0.0	
100	P2BPSK	135	69	20.27	20.44	20.61	21.0	0.0	
100	P2BPSK	135	138	20.23	20.40	20.57	21.0	0.0	
100	P2BPSK	203	0	20.20	20.37	20.54			
100	QPSK	1	1	20.35	20.52	20.69			
100	QPSK	1	137	20.14	20.31	20.48	21.0	0.0	
100	QPSK	1	271	20.09	20.26	20.43			
100	QPSK	135	0	19.26	19.43	19.60			
100	QPSK	135	69	20.12	20.29	20.46	21.0	0.0	
100	QPSK	135	138	19.22	19.39	19.56	20.0	1.0	
100	QPSK	210	0	19.23	19.40	19.57			
100	16QAM	1	1	19.32	19.49	19.66	20.0	1.0	
100	64QAM	1	1	17.75	17.92	18.09	18.5	2.5	
100	256QAM	1	1	17.68	17.85	18.02	17.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.36	20.53	20.70	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.34	20.51	20.68	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.30	20.47	20.64	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.26	20.43	20.60	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.35	20.52	20.69	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.34	20.51	20.68	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.24	20.41	20.58	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.26	20.43	20.60	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.33	20.50	20.67	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.32	20.49	20.66	21.0	0.0	

Part270(HPUE)_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	21.91	22.08	22.25	23.0	0.0	
100	P2BPSK	1	137	22.08	22.25	22.42			
100	P2BPSK	1	271	22.25	22.42	22.59			
100	P2BPSK	135	0	21.79	21.96	22.13	22.5	0.5	
100	P2BPSK	135	69	22.05	22.22	22.39	23.0	0.0	
100	P2BPSK	135	138	21.79	21.96	22.13	22.5	0.5	
100	P2BPSK	203	0	21.73	21.90	22.07			
100	QPSK	1	1	22.35	22.52	22.69			
100	QPSK	1	137	22.25	22.42	22.59	23.0	0.0	
100	QPSK	1	271	22.16	22.33	22.50			
100	QPSK	135	0	21.47	21.64	21.81			
100	QPSK	135	69	22.32	22.49	22.66	23.0	0.0	
100	QPSK	135	138	21.36	21.53	21.70	22.0	1.0	
100	QPSK	210	0	21.31	21.48	21.65			
100	16QAM	1	1	21.33	21.50	21.67	22.0	1.0	
100	64QAM	1	1	19.68	19.85	20.02	20.5	2.5	
100	256QAM	1	1	18.20	18.37	18.54	18.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.29	22.46	22.63	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.24	22.41	22.58	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.25	22.42	22.59	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.21	22.38	22.55	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.26	22.43	22.60	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.28	22.45	22.62	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.21	22.38	22.55	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.24	22.41	22.58	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.22	22.39	22.56	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.27	22.44	22.61	23.0	0.0	



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Part 27Q_Band 42_Ant 3

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.

Reduced Power Mode for DSI 7

Part 27Q_Band 42_Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 6

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.

Part 27Q_Band 42_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., Turn-up limit (dBm), MPR (dB). Includes sub-sections for Channel, Channel, and Channel.



n26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.98	23.12	23.10	24.0	0.0	
20	PI2 BPSK	1	53	22.99	23.08	22.99			
20	PI2 BPSK	1	104	22.93	22.98	22.88			
20	PI2 BPSK	50	0	22.99	23.11	23.03	24.0	0.0	
20	PI2 BPSK	50	28	22.96	23.03	23.00	24.0	0.0	
20	PI2 BPSK	50	56	22.93	23.06	23.00	24.0	0.0	
20	PI2 BPSK	100	0	22.97	23.05	23.02	24.0	0.0	
20	QPSK	1	1	23.12	23.18	23.05	24.0	0.0	
20	QPSK	1	53	22.89	23.02	22.87			
20	QPSK	1	104	22.87	22.82	22.83			
20	QPSK	50	0	22.95	23.07	22.94	24.0	0.0	
20	QPSK	50	28	23.07	23.11	23.03	24.0	0.0	
20	QPSK	50	56	22.90	23.04	22.92	24.0	0.0	
20	QPSK	100	0	22.95	23.05	23.04	24.0	0.0	
20	16QAM	1	1	22.99	23.11	23.07	24.0	0.0	
20	64QAM	1	1	21.54	21.68	21.56	22.5	1.5	
20	256QAM	1	1	20.03	20.07	19.99	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.88	23.09	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.03	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.05	23.03	24.0	0.0	

n26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.72	20.82	20.76	22.0	0.0	
20	PI2 BPSK	1	53	20.75	20.84	20.73			
20	PI2 BPSK	1	104	20.73	20.84	20.81			
20	PI2 BPSK	50	0	20.70	20.81	20.81	22.0	0.0	
20	PI2 BPSK	50	28	20.72	20.88	20.70	22.0	0.0	
20	PI2 BPSK	50	56	20.65	20.89	20.72	22.0	0.0	
20	PI2 BPSK	100	0	20.73	20.83	20.75	22.0	0.0	
20	QPSK	1	1	20.79	20.95	20.85	22.0	0.0	
20	QPSK	1	53	20.78	20.91	20.78			
20	QPSK	1	104	20.65	20.93	20.72			
20	QPSK	50	0	20.69	20.85	20.78	22.0	0.0	
20	QPSK	50	28	20.72	20.90	20.84	22.0	0.0	
20	QPSK	50	56	20.75	20.88	20.78	22.0	0.0	
20	QPSK	100	0	20.77	20.81	20.71	22.0	0.0	
20	16QAM	1	1	20.72	20.80	20.84	22.0	0.0	
20	64QAM	1	1	20.74	20.84	20.73	22.0	0.0	
20	256QAM	1	1	19.84	19.85	19.84	20.5	1.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.70	20.85	20.75	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.72	20.84	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.66	20.91	20.81	22.0	0.0	



n38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2599.02 2595 2599.98									
40	PI2 BPSK	1	1	18.07	18.00	17.98			
40	PI2 BPSK	1	53	18.01	18.00	18.00	19.5	0.0	
40	PI2 BPSK	1	104	18.13	18.07	18.06			
40	PI2 BPSK	50	0	18.04	18.00	17.98	19.5	0.0	
40	PI2 BPSK	50	28	18.00	18.01	17.93	19.5	0.0	
40	PI2 BPSK	50	56	18.00	18.00	18.07	19.5	0.0	
40	PI2 BPSK	100	0	18.08	17.99	18.06			
40	QPSK	1	1	18.12	18.14	18.08			
40	QPSK	1	53	18.03	18.01	18.03	19.5	0.0	
40	QPSK	1	104	18.01	18.06	17.94			
40	QPSK	50	0	18.05	18.10	17.99			
40	QPSK	50	28	18.05	18.11	18.07	19.5	0.0	
40	QPSK	50	56	18.04	17.99	17.99			
40	QPSK	100	0	18.02	18.09	18.03	19.5	0.0	
40	16QAM	1	1	18.08	18.12	18.01	19.5	0.0	
40	16QAM	1	1	18.13	18.12	18.04	19.5	0.0	
40	256QAM	1	1	18.09	18.07	17.95	19.5	0.0	
Channel									
Frequency (MHz)									
5180.01 5180.00 5209.98									
30	QPSK	1	1	18.11	18.08	17.93	19.5	0.0	
Channel									
Frequency (MHz)									
5180.04 5180.00 521.496									
25	QPSK	1	1	18.10	18.10	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
5180.00 5180.00 520.000									
20	QPSK	1	1	18.10	18.05	18.04	19.5	0.0	
Channel									
Frequency (MHz)									
5150.02 5150.00 520.998									
15	QPSK	1	1	18.11	18.02	17.96	19.5	0.0	
Channel									
Frequency (MHz)									
2577.51 2595 2612.49									
10	QPSK	1	1	18.00	18.07	17.96	19.5	0.0	
Channel									
Frequency (MHz)									
5140.00 5180.00 520.000									
5	QPSK	1	1	18.13	18.03	18.06	19.5	0.0	

n38_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2599.02 2595 2599.98									
40	PI2 BPSK	1	1	15.05	15.21	15.24			
40	PI2 BPSK	1	53	15.14	15.32	15.25	16.0	0.0	
40	PI2 BPSK	1	104	15.14	15.26	15.19			
40	PI2 BPSK	50	0	15.03	15.23	15.15	16.0	0.0	
40	PI2 BPSK	50	28	15.11	15.26	15.18	16.0	0.0	
40	PI2 BPSK	50	56	15.12	15.30	15.16	16.0	0.0	
40	PI2 BPSK	100	0	15.08	15.21	15.19			
40	QPSK	1	1	15.18	15.34	15.28			
40	QPSK	1	53	15.11	15.31	15.25	16.0	0.0	
40	QPSK	1	104	15.13	15.32	15.20			
40	QPSK	50	0	15.11	15.21	15.20			
40	QPSK	50	28	15.15	15.31	15.21	16.0	0.0	
40	QPSK	50	56	15.10	15.29	15.19			
40	QPSK	100	0	15.17	15.28	15.19	16.0	0.0	
40	16QAM	1	1	15.10	15.27	15.27	16.0	0.0	
40	16QAM	1	1	15.06	15.22	15.17	16.0	0.0	
40	256QAM	1	1	15.08	15.27	15.28	16.0	0.0	
Channel									
Frequency (MHz)									
5180.01 5180.00 520.998									
30	QPSK	1	1	15.09	15.23	15.22	16.0	0.0	
Channel									
Frequency (MHz)									
5180.04 5180.00 521.496									
25	QPSK	1	1	15.04	15.22	15.20	16.0	0.0	
Channel									
Frequency (MHz)									
5180.00 5180.00 520.000									
20	QPSK	1	1	15.05	15.32	15.22	16.0	0.0	
Channel									
Frequency (MHz)									
5150.02 5150.00 520.998									
15	QPSK	1	1	15.08	15.30	15.16	16.0	0.0	
Channel									
Frequency (MHz)									
2577.51 2595 2612.49									
10	QPSK	1	1	15.03	15.19	15.14	16.0	0.0	
Channel									
Frequency (MHz)									
5140.00 5180.00 520.000									
5	QPSK	1	1	15.11	15.24	15.25	16.0	0.0	

n41_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
2546.01 2542.99 2540									
100	PI2 BPSK	1	1	18.24	18.28	18.16			
100	PI2 BPSK	1	137	18.16	18.27	18.09	19.5	0.0	
100	PI2 BPSK	1	271	18.22	18.26	18.12			
100	PI2 BPSK	135	0	18.15	18.20	18.15	19.5	0.0	
100	PI2 BPSK	135	69	18.26	18.25	18.03	19.5	0.0	
100	PI2 BPSK	135	138	18.14	18.21	18.16	19.5	0.0	
100	PI2 BPSK	270	0	18.14	18.32	18.13			
100	QPSK	1	1	18.22	18.36	18.17			
100	QPSK	1	137	18.27	18.22	18.12	19.5	0.0	
100	QPSK	1	271	18.15	18.34	18.14			
100	QPSK	135	0	18.22	18.28	18.03			
100	QPSK	135	69	18.26	18.33	18.13	19.5	0.0	
100	QPSK	135	138	18.17	18.19	18.07			
100	QPSK	270	0	18.19	18.30	18.14	19.5	0.0	
100	16QAM	1	1	18.14	18.34	18.13	19.5	0.0	
100	16QAM	1	1	18.20	18.26	18.06	19.5	0.0	
100	256QAM	1	1	18.23	18.26	18.14	19.5	0.0	
Channel									
Frequency (MHz)									
5020.00 5180.00 520.998									
90	QPSK	1	1	18.27	18.30	18.04	19.5	0.0	
Channel									
Frequency (MHz)									
507.204 5180.00 520.998									
80	QPSK	1	1	18.27	18.22	18.10	19.5	0.0	
Channel									
Frequency (MHz)									
5020.00 5180.00 531.000									
70	QPSK	1	1	18.14	18.25	18.05	19.5	0.0	
Channel									
Frequency (MHz)									
5020.00 5180.00 530.998									
60	QPSK	1	1	18.20	18.26	18.14	19.5	0.0	
Channel									
Frequency (MHz)									
2542.99 2542.99 264.499									
50	QPSK	1	1	18.18	18.32	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
5027.04 5180.00 534.498									
40	QPSK	1	1	18.27	18.32	18.03	19.5	0.0	
Channel									
Frequency (MHz)									
5027.04 5180.00 534.498									
35	QPSK	1	1	18.26	18.29	18.07	19.5	0.0	
Channel									
Frequency (MHz)									
5020.00 5180.00 534.998									
30	QPSK	1	1	18.21	18.32	18.18	19.5	0.0	
Channel									
Frequency (MHz)									
501.204 5180.00 530.998									
20	QPSK	1	1	18.28	18.32	18.14	19.5	0.0	
Channel									
Frequency (MHz)									
2593.5 2592.99 260.49									
15	QPSK	1	1	18.23	18.27	18.10	19.5	0.0	
Channel									
Frequency (MHz)									
5020.00 5180.00 537.000									
10	QPSK	1	1	18.14	18.28	18.15	19.5	0.0	



n41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
2548.01 2592.99 2840										
100	PI2 BPSK	1	1	15.05	15.14	14.91				
100	PI2 BPSK	1	137	15.02	15.11	14.88	16.0	0.0		
100	PI2 BPSK	1	271	15.10	15.11	14.92				
100	PI2 BPSK	135	0	15.12	15.15	14.82	16.0	0.0		
100	PI2 BPSK	135	69	15.13	15.12	14.87	16.0	0.0		
100	PI2 BPSK	135	138	15.02	15.16	14.87	16.0	0.0		
100	PI2 BPSK	270	0	15.04	15.15	14.90				
100	QPSK	1	1	15.10	15.22	14.93				
100	QPSK	1	137	15.06	15.19	14.81	16.0	0.0		
100	QPSK	1	271	15.15	15.16	14.86				
100	QPSK	135	0	15.03	15.07	14.93	16.0	0.0		
100	QPSK	135	69	15.09	15.18	14.91	16.0	0.0		
100	QPSK	135	138	15.02	15.10	14.90	16.0	0.0		
100	QPSK	270	0	15.01	15.15	14.87	16.0	0.0		
100	16QAM	1	1	15.15	15.12	14.81	16.0	0.0		
100	256QAM	1	1	15.08	15.14	14.82	16.0	0.0		
Channel										
Frequency (MHz)										
2541 2592.99 2634.98										
90	QPSK	1	1	15.02	15.16	14.92	16.0	0.0		
Channel										
Frequency (MHz)										
507204 518998 529998										
80	QPSK	1	1	15.09	15.07	14.79	16.0	0.0		
Channel										
Frequency (MHz)										
505202 518998 531000										
70	QPSK	1	1	15.14	15.11	14.87	16.0	0.0		
Channel										
Frequency (MHz)										
505200 518998 531996										
60	QPSK	1	1	15.15	15.12	14.82	16.0	0.0		
Channel										
Frequency (MHz)										
2521.02 2592.99 2664.99										
50	QPSK	1	1	15.03	15.09	14.92	16.0	0.0		
Channel										
Frequency (MHz)										
303202 518998 534000										
40	QPSK	1	1	15.14	15.13	14.81	16.0	0.0		
Channel										
Frequency (MHz)										
502704 518998 534998										
35	QPSK	1	1	15.06	15.21	14.84	16.0	0.0		
Channel										
Frequency (MHz)										
502900 518998 534998										
30	QPSK	1	1	15.09	15.19	14.82	16.0	0.0		
Channel										
Frequency (MHz)										
2506.02 2592.99 2679.99										
20	QPSK	1	1	15.02	15.09	14.89	16.0	0.0		
Channel										
Frequency (MHz)										
2503.5 2592.99 2692.48										
15	QPSK	1	1	15.04	15.11	14.92	16.0	0.0		
Channel										
Frequency (MHz)										
300202 518998 537000										
10	QPSK	1	1	15.02	15.08	14.79	16.0	0.0		

Part270_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3790 3840 3900										
100	PI2 BPSK	1	1	20.71	21.04	20.91				
100	PI2 BPSK	1	137	20.66	21.06	20.94	22.0	0.0		
100	PI2 BPSK	1	271	20.73	21.06	20.92				
100	PI2 BPSK	135	0	20.65	21.06	21.01	22.0	0.0		
100	PI2 BPSK	135	69	20.69	21.02	20.89	22.0	0.0		
100	PI2 BPSK	135	138	20.67	21.01	20.86	22.0	0.0		
100	PI2 BPSK	270	0	20.67	21.02	20.91				
100	QPSK	1	1	20.70	21.07	20.96				
100	QPSK	1	137	20.56	20.97	20.84	22.0	0.0		
100	QPSK	1	271	20.68	21.06	20.96				
100	QPSK	135	0	19.92	20.21	20.06	22.0	0.0		
100	QPSK	135	69	20.05	20.98	20.90	22.0	0.0		
100	QPSK	135	138	19.93	20.37	20.26	22.0	0.0		
100	QPSK	270	0	19.89	20.24	20.18	21.0	1.0		
100	16QAM	1	1	18.81	19.86	19.86	21.0	1.0		
100	16QAM	1	1	18.34	18.73	18.70	19.5	2.5		
100	256QAM	1	1	17.34	17.74	17.63	18.0	4.0		
Channel										
Frequency (MHz)										
646668 656000 663332										
90	QPSK	1	1	20.65	20.99	20.81	22.0	0.0		
Channel										
Frequency (MHz)										
646334 656000 662666										
80	QPSK	1	1	20.65	20.94	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
646000 656000 663000										
70	QPSK	1	1	20.62	20.95	20.92	22.0	0.0		
Channel										
Frequency (MHz)										
646668 656000 663332										
60	QPSK	1	1	20.04	21.06	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
3726.01 3840 3924.99										
50	QPSK	1	1	20.63	21.01	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
646000 656000 663000										
40	QPSK	1	1	20.60	21.05	20.83	22.0	0.0		
Channel										
Frequency (MHz)										
647668 656000 664332										
30	QPSK	1	1	20.71	20.92	20.88	22.0	0.0		
Channel										
Frequency (MHz)										
647334 656000 664666										
20	QPSK	1	1	20.65	20.98	20.92	22.0	0.0		
Channel										
Frequency (MHz)										
3710.01 3840 3909.99										
15	QPSK	1	1	20.68	20.99	20.82	22.0	0.0		
Channel										
Frequency (MHz)										
3705 3840 3915										
10	QPSK	1	1	20.62	20.94	20.84	22.0	0.0		

Part270(HPUE)_n77_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3790 3840 3900										
100	PI2 BPSK	1	1	22.49	23.03	22.87				
100	PI2 BPSK	1	137	22.36	23.01	22.84	24.0	0.0		
100	PI2 BPSK	1	271	22.36	22.92	22.72				
100	PI2 BPSK	135	0	22.44	22.98	22.82	23.5	0.5		
100	PI2 BPSK	135	69	22.39	23.01	22.82	24.0	0.0		
100	PI2 BPSK	135	138	22.26	22.89	22.72	23.5	0.5		
100	PI2 BPSK	270	0	22.37	22.97	22.73				
100	QPSK	1	1	22.48	23.06	22.91				
100	QPSK	1	137	22.22	22.83	22.66	24.0	0.0		
100	QPSK	1	271	22.41	22.96	22.77				
100	QPSK	135	0	21.98	22.19	21.96	24.0	0.0		
100	QPSK	135	69	22.30	22.92	22.76	24.0	0.0		
100	QPSK	135	138	21.95	22.10	21.85	24.0	0.0		
100	QPSK	270	0	21.97	22.98	21.94	23.0	1.0		
100	16QAM	1	1	21.40	21.95	21.73	23.0	1.0		
100	16QAM	1	1	19.96	20.58	20.37	21.5	2.5		
100	256QAM	1	1	19.26	19.82	19.60	20.0	4.0		
Channel										
Frequency (MHz)										
646668 656000 663332										
90	QPSK	1	1	22.41	22.99	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
646334 656000 662666										
80	QPSK	1	1	22.43	22.98	22.67	24.0	0.0		
Channel										
Frequency (MHz)										
646000 656000 663000										
70	QPSK	1	1	22.43	22.98	22.67	24.0	0.0		
Channel										
Frequency (MHz)										
646668 656000 663332										
60	QPSK	1	1	22.26	22.93	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
3726.01 3840 3924.99										
50	QPSK	1	1	22.44	22.93	22.67	24.0	0.0		
Channel										
Frequency (MHz)										
646000 656000 663000										
40	QPSK	1	1	22.47	23.04	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
647668 656000 664332										
30	QPSK	1	1	22.45	22.99	22.67	24.0	0.0		
Channel										
Frequency (MHz)										
647334 656000 664666										
20	QPSK	1	1	22.48	22.98	22.74	24.0	0.0		
Channel										
Frequency (MHz)										
3710.01 3840 3909.99										
15	QPSK	1	1	22.44	23.03	22.69	24.0	0.0		
Channel										
Frequency (MHz)										
3705 3840 3915										
10	QPSK	1	1	22.47	23.05	22.78	24.0	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)								
3750 3840 3930								
100	P12 BPSK	1	1	17.30	17.64	17.68		
100	P12 BPSK	1	137	17.28	17.62	17.54	18.0	0.0
100	P12 BPSK	1	271	17.26	17.54	17.60		
100	P12 BPSK	135	0	17.25	17.54	17.63	18.0	0.0
100	P12 BPSK	135	69	17.27	17.60	17.58	18.0	0.0
100	P12 BPSK	135	138	17.18	17.65	17.62	18.0	0.0
100	P12 BPSK	270	0	17.18	17.62	17.61		
100	QPSK	1	1	17.32	17.66	17.69		
100	QPSK	1	137	17.22	17.58	17.57	18.0	0.0
100	QPSK	1	271	17.20	17.59	17.62		
100	QPSK	135	0	17.24	17.57	17.54		
100	QPSK	135	69	17.31	17.59	17.57	18.0	0.0
100	QPSK	135	138	17.22	17.53	17.54		
100	QPSK	270	0	17.29	17.58	17.55	18.0	0.0
100	16QAM	1	1	17.28	17.51	17.66	18.0	0.0
100	16QAM	1	1	17.30	17.58	17.55	18.0	0.0
100	256QAM	1	1	17.21	17.65	17.61	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
90	QPSK	1	1	17.31	17.53	17.63	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
80	QPSK	1	1	17.29	17.52	17.67	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
70	QPSK	1	1	17.28	17.60	17.60	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
60	QPSK	1	1	17.19	17.57	17.57	18.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
50	QPSK	1	1	17.31	17.59	17.57	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
40	QPSK	1	1	17.28	17.60	17.63	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
30	QPSK	1	1	17.18	17.62	17.57	18.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
20	QPSK	1	1	17.27	17.61	17.58	18.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
15	QPSK	1	1	17.18	17.64	17.57	18.0	0.0
Channel								
Frequency (MHz)								
3705 3840 3975								
10	QPSK	1	1	17.30	17.57	17.62	18.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3750 3840 3930								
100	P12 BPSK	1	1	20.24	20.58	20.37		
100	P12 BPSK	1	137	20.20	20.59	20.42	21.0	0.0
100	P12 BPSK	1	271	20.26	20.64	20.38		
100	P12 BPSK	135	0	20.24	20.67	20.40	21.0	0.0
100	P12 BPSK	135	69	20.25	20.70	20.50	21.0	0.0
100	P12 BPSK	135	138	20.18	20.59	20.46	21.0	0.0
100	P12 BPSK	270	0	20.15	20.70	20.46		
100	QPSK	1	1	20.30	20.71	20.51		
100	QPSK	1	137	20.20	20.60	20.50	21.0	0.0
100	QPSK	1	271	20.27	20.70	20.38		
100	QPSK	135	0	20.15	20.56	20.47		
100	QPSK	135	69	20.20	20.70	20.50	21.0	0.0
100	QPSK	135	138	20.19	20.68	20.49		
100	QPSK	270	0	20.24	20.61	20.44	21.0	0.0
100	16QAM	1	1	20.21	20.54	20.43	21.0	0.0
100	16QAM	1	1	20.27	20.70	20.40	21.0	0.0
100	256QAM	1	1	20.23	20.62	20.36	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
90	QPSK	1	1	20.22	20.59	20.46	21.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
80	QPSK	1	1	20.15	20.63	20.47	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
70	QPSK	1	1	20.19	20.63	20.35	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
60	QPSK	1	1	20.15	20.59	20.42	21.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
50	QPSK	1	1	20.29	20.63	20.44	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
40	QPSK	1	1	20.23	20.66	20.49	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
30	QPSK	1	1	20.26	20.63	20.44	21.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
20	QPSK	1	1	20.29	20.57	20.40	21.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
15	QPSK	1	1	20.26	20.59	20.40	21.0	0.0
Channel								
Frequency (MHz)								
3705 3840 3975								
10	QPSK	1	1	20.25	20.70	20.45	21.0	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)								
3750 3840 3930								
100	P12 BPSK	1	1	18.83	18.78	18.91		
100	P12 BPSK	1	137	18.51	18.74	18.96	20.0	0.0
100	P12 BPSK	1	271	18.54	18.71	19.03		
100	P12 BPSK	135	0	18.53	18.76	18.90	20.0	0.0
100	P12 BPSK	135	69	18.58	18.79	19.00	20.0	0.0
100	P12 BPSK	135	138	18.61	18.72	18.92	20.0	0.0
100	P12 BPSK	270	0	18.52	18.74	19.04		
100	QPSK	1	1	18.64	18.84	18.95		
100	QPSK	1	137	18.50	18.70	18.96	20.0	0.0
100	QPSK	1	271	18.60	18.76	19.00		
100	QPSK	135	0	18.54	18.72	18.93		
100	QPSK	135	69	18.58	18.76	19.03	20.0	0.0
100	QPSK	135	138	18.54	18.70	19.01		
100	QPSK	270	0	18.58	18.76	18.92	20.0	0.0
100	16QAM	1	1	18.62	18.80	18.94	20.0	0.0
100	16QAM	1	1	18.62	18.80	18.95	20.0	0.0
100	256QAM	1	1	18.59	18.69	18.92	20.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
90	QPSK	1	1	18.52	18.83	19.01	20.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
80	QPSK	1	1	18.49	18.69	18.92	20.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
70	QPSK	1	1	18.54	18.79	18.93	20.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
60	QPSK	1	1	18.57	18.71	18.93	20.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
50	QPSK	1	1	18.53	18.75	19.03	20.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
40	QPSK	1	1	18.62	18.74	19.01	20.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
30	QPSK	1	1	18.58	18.83	19.02	20.0	0.0
Channel								
Frequency (MHz)								
3745.01 3840 3934.99								
20	QPSK	1	1	18.53	18.80	18.99	20.0	0.0
Channel								
Frequency (MHz)								
3745.02 3840 3934.98								
15	QPSK	1	1	18.58	18.70	18.99	20.0	0.0
Channel								
Frequency (MHz)								
3705 3840 3975								
10	QPSK	1	1	18.57	18.71	18.96	20.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3760	3840	3930			
100	PI2 BPSK	1	1	21.30	21.94	21.65			
100	PI2 BPSK	1	137	21.19	21.89	21.64	23.0	0.0	
100	PI2 BPSK	1	271	21.07	21.87	21.68			
100	PI2 BPSK	135	0	21.30	21.88	21.65	23.0	0.0	
100	PI2 BPSK	135	69	21.28	21.85	21.67	23.0	0.0	
100	PI2 BPSK	135	138	21.27	21.86	21.67	23.0	0.0	
100	PI2 BPSK	270	0	21.21	21.89	21.72			
100	QPSK	1	1	21.32	21.96	21.73			
100	QPSK	1	137	21.19	21.94	21.67	23.0	0.0	
100	QPSK	1	271	21.27	21.87	21.67			
100	QPSK	135	0	21.19	21.85	21.69			
100	QPSK	135	69	21.30	21.88	21.72	23.0	0.0	
100	QPSK	135	138	21.28	21.84	21.63			
100	QPSK	270	0	21.28	21.86	21.61	23.0	0.0	
100	16QAM	1	1	21.27	21.92	21.67	23.0	0.0	
100	16QAM	1	1	21.18	21.95	21.69	23.0	0.0	
100	256QAM	1	1	21.24	21.83	21.66	23.0	0.0	
Channel									
Frequency (MHz)									
				649683	650000	650332			
90	QPSK	1	1	21.26	21.88	21.58	23.0	0.0	
Channel									
Frequency (MHz)									
				649334	650000	650666			
80	QPSK	1	1	21.20	21.89	21.58	23.0	0.0	
Channel									
Frequency (MHz)									
				649000	650000	650000			
70	QPSK	1	1	21.22	21.83	21.70	23.0	0.0	
Channel									
Frequency (MHz)									
				648968	650000	650332			
60	QPSK	1	1	21.22	21.88	21.61	23.0	0.0	
Channel									
Frequency (MHz)									
				648334	650000	650666			
50	QPSK	1	1	21.18	21.91	21.72	23.0	0.0	
Channel									
Frequency (MHz)									
				648000	650000	650000			
40	QPSK	1	1	21.28	21.85	21.64	23.0	0.0	
Channel									
Frequency (MHz)									
				647668	650000	650332			
30	QPSK	1	1	21.17	21.92	21.63	23.0	0.0	
Channel									
Frequency (MHz)									
				647334	650000	650666			
20	QPSK	1	1	21.04	21.99	21.69	23.0	0.0	
Channel									
Frequency (MHz)									
				647168	650000	650332			
15	QPSK	1	1	21.20	21.86	21.64	23.0	0.0	
Channel									
Frequency (MHz)									
				647000	650000	650000			
10	QPSK	1	1	21.28	21.83	21.72	23.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3760	3840	3930			
100	PI2 BPSK	1	1	17.60	17.96	18.06			
100	PI2 BPSK	1	137	17.61	17.96	18.02	18.5	0.0	
100	PI2 BPSK	1	271	17.70	17.92	18.10			
100	PI2 BPSK	135	0	17.61	18.03	18.13	18.5	0.0	
100	PI2 BPSK	135	69	17.59	17.98	18.02	18.5	0.0	
100	PI2 BPSK	135	138	17.62	17.93	18.05	18.5	0.0	
100	PI2 BPSK	270	0	17.60	18.00	18.01			
100	QPSK	1	1	17.72	18.07	18.14			
100	QPSK	1	137	17.61	17.93	18.04	18.5	0.0	
100	QPSK	1	271	17.71	17.94	18.01			
100	QPSK	135	0	17.63	17.97	18.05			
100	QPSK	135	69	17.60	18.06	18.09	18.5	0.0	
100	QPSK	135	138	17.60	17.94	18.04			
100	QPSK	270	0	17.71	18.03	18.03	18.5	0.0	
100	16QAM	1	1	17.66	17.96	18.11	18.5	0.0	
100	16QAM	1	1	17.62	17.99	18.08	18.5	0.0	
100	256QAM	1	1	17.63	18.06	18.00	18.5	0.0	
Channel									
Frequency (MHz)									
				649683	650000	650332			
90	QPSK	1	1	17.65	17.99	18.13	18.5	0.0	
Channel									
Frequency (MHz)									
				649334	650000	650666			
80	QPSK	1	1	17.64	18.01	18.05	18.5	0.0	
Channel									
Frequency (MHz)									
				649000	650000	650000			
70	QPSK	1	1	17.68	17.95	18.05	18.5	0.0	
Channel									
Frequency (MHz)									
				648968	650000	650332			
60	QPSK	1	1	17.64	18.00	18.07	18.5	0.0	
Channel									
Frequency (MHz)									
				648334	650000	650666			
50	QPSK	1	1	17.65	17.92	18.11	18.5	0.0	
Channel									
Frequency (MHz)									
				648000	650000	650000			
40	QPSK	1	1	17.69	17.92	18.08	18.5	0.0	
Channel									
Frequency (MHz)									
				647668	650000	650332			
30	QPSK	1	1	17.62	18.04	18.00	18.5	0.0	
Channel									
Frequency (MHz)									
				647334	650000	650666			
20	QPSK	1	1	17.60	18.04	18.02	18.5	0.0	
Channel									
Frequency (MHz)									
				647168	650000	650332			
15	QPSK	1	1	17.67	17.93	17.99	18.5	0.0	
Channel									
Frequency (MHz)									
				647000	650000	650000			
10	QPSK	1	1	17.66	18.03	18.04	18.5	0.0	

Part270(HPUE)_n77_Ant 9									
BW (MHz)	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)									
				3760	3840	3930			
100	PI2 BPSK	1	1	19.46	19.75	19.94			
100	PI2 BPSK	1	137	19.49	19.92	19.83	20.5	0.0	
100	PI2 BPSK	1	271	19.41	19.77	19.89			
100	PI2 BPSK	135	0	19.49	19.75	19.94	20.5	0.0	
100	PI2 BPSK	135	69	19.43	19.85	19.91	20.5	0.0	
100	PI2 BPSK	135	138	19.44	19.84	19.87	20.5	0.0	
100	PI2 BPSK	270	0	19.44	19.81	19.87			
100	QPSK	1	1	19.50	19.88	19.96			
100	QPSK	1	137	19.43	19.76	19.88	20.5	0.0	
100	QPSK	1	271	19.47	19.86	19.90			
100	QPSK	135	0	19.42	19.84	19.86			
100	QPSK	135	69	19.45	19.86	19.94	20.5	0.0	
100	QPSK	135	138	19.42	19.74	19.89			
100	QPSK	270	0	19.52	19.86	19.92	20.5	0.0	
100	16QAM	1	1	19.48	19.83	19.91	20.5	0.0	
100	16QAM	1	1	19.48	19.84	19.94	20.5	0.0	
100	256QAM	1	1	19.49	19.80	19.89	19.0	1.5	
Channel									
Frequency (MHz)									
				649683	650000	650332			
90	QPSK	1	1	19.48	19.84	19.83	20.5	0.0	
Channel									
Frequency (MHz)									
				649334	650000	650666			
80	QPSK	1	1	19.40	19.73	19.86	20.5	0.0	
Channel									
Frequency (MHz)									
				649000	650000	650000			
70	QPSK	1	1	19.47	19.75	19.85	20.5	0.0	
Channel									
Frequency (MHz)									
				648968	650000	650332			
60	QPSK	1	1	19.44	19.81	19.87	20.5	0.0	
Channel									
Frequency (MHz)									
				648334	650000	650666			
50	QPSK	1	1	19.49	19.73	19.92	20.5	0.0	
Channel									
Frequency (MHz)									
				648000	650000	650000			
40	QPSK	1	1	19.47	19.73	19.85	20.5	0.0	
Channel									
Frequency (MHz)									
				647668	650000	650332			
30	QPSK	1	1	19.47	19.82	19.84	20.5	0.0	
Channel									
Frequency (MHz)									
				647334	650000	650666			
20	QPSK	1	1	19.54	19.77	19.92	20.5	0.0	
Channel									
Frequency (MHz)									
				647168	650000	650332			
15	QPSK	1	1	19.42	19.79	19.84	20.5	0.0	
Channel									
Frequency (MHz)									
				647000	650000	650000			
10	QPSK	1	1	19.47	19.73	19.83	20.5	0.0	



Part270_n78_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.26						
100	PI2 BPSK	1	137	19.27			20.0	0.0		
100	PI2 BPSK	1	271	19.24						
100	PI2 BPSK	135	0	19.19			19.5	0.5		
100	PI2 BPSK	135	69	19.21			20.0	0.0		
100	PI2 BPSK	135	138	19.18			19.5	0.5		
100	PI2 BPSK	270	0	19.24						
100	QPSK	1	1	19.29						
100	QPSK	1	137	18.84			20.0	0.0		
100	QPSK	1	271	18.83						
100	QPSK	135	0	18.12						
100	QPSK	135	69	18.72			20.0	0.0		
100	QPSK	135	138	18.05						
100	QPSK	270	0	17.98			18.0	1.0		
100	16QAM	1	1	18.28			19.0	1.0		
100	64QAM	1	1	18.72			18.0	2.0		
100	256QAM	1	1	18.88			17.0	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	19.27	19.22	19.16	20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.16	19.23	19.22	20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.29	19.16	19.27	20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.20	19.14	19.23	20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.15	19.18	19.16	20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.25	19.17	19.22	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.16	19.26	19.16	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.14	19.15	19.27	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.18	19.19	19.25	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.20	19.23	19.16	20.0	0.0		

Part270(HPUE)_n78_Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	21.05						
100	PI2 BPSK	1	137	21.07			22.0	0.0		
100	PI2 BPSK	1	271	21.03						
100	PI2 BPSK	135	0	21.08			21.5	0.5		
100	PI2 BPSK	135	69	21.07			22.0	0.0		
100	PI2 BPSK	135	138	21.04			21.5	0.5		
100	PI2 BPSK	270	0	21.05						
100	QPSK	1	1	21.09						
100	QPSK	1	137	20.79			22.0	0.0		
100	QPSK	1	271	20.41						
100	QPSK	135	0	20.06						
100	QPSK	135	69	20.82			22.0	0.0		
100	QPSK	135	138	19.72						
100	QPSK	270	0	18.84			21.0	1.0		
100	16QAM	1	1	20.12			21.0	1.0		
100	64QAM	1	1	18.42			19.5	2.5		
100	256QAM	1	1	17.59			18.0	4.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.00	21.07	20.05	22.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.05	20.99	20.97	22.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.08	21.02	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.04	20.98	21.05	22.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.97	21.00	21.05	22.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.97	20.98	21.06	22.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.08	20.97	21.03	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.03	20.95	21.02	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.94	21.00	21.00	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.95	20.95	21.00	22.0	0.0		

Part270_n78_Ant 4										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	17.06						
100	PI2 BPSK	1	137	17.10			18.0	0.0		
100	PI2 BPSK	1	271	17.14						
100	PI2 BPSK	135	0	17.14			18.0	0.0		
100	PI2 BPSK	135	69	17.06			18.0	0.0		
100	PI2 BPSK	135	138	17.13			18.0	0.0		
100	PI2 BPSK	270	0	17.07						
100	QPSK	1	1	17.18						
100	QPSK	1	137	17.10			18.0	0.0		
100	QPSK	1	271	17.17						
100	QPSK	135	0	17.11						
100	QPSK	135	69	17.15			18.0	0.0		
100	QPSK	135	138	17.13						
100	QPSK	270	0	17.07			18.0	0.0		
100	16QAM	1	1	17.16			18.0	0.0		
100	64QAM	1	1	17.08			18.0	0.0		
100	256QAM	1	1	17.05			18.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	17.16	17.16	17.03	18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.03	17.03	16.90	18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.08	17.05	16.97	18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.12	17.13	17.01	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.05	17.02	16.88	18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.09	17.01	16.94	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.03	17.06	16.91	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.15	17.05	16.93	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.04	17.02	16.94	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.04	17.06	16.90	18.0	0.0		



Part270(HPUE)_n78_Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3750	3750		
100	P12 BPSK	1	1	19.76				
100	P12 BPSK	1	137	19.71			21.0	0.0
100	P12 BPSK	1	271	19.80				
100	P12 BPSK	135	0	19.69			21.0	0.0
100	P12 BPSK	135	69	19.80			21.0	0.0
100	P12 BPSK	135	138	19.78			21.0	0.0
100	P12 BPSK	270	0	19.79				
100	QPSK	1	1	19.83				
100	QPSK	1	137	19.71			21.0	0.0
100	QPSK	1	271	19.80				
100	QPSK	135	0	19.78			21.0	0.0
100	QPSK	135	69	19.79			21.0	0.0
100	QPSK	135	138	19.72			21.0	0.0
100	QPSK	270	0	19.75			21.0	0.0
100	16QAM	1	1	19.82			21.0	0.0
100	16QAM	1	1	19.76			21.0	0.0
100	256QAM	1	1	19.81			21.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	652032		MPR (dB)
				3745.02	3750	3754.98		MPR (dB)
90	QPSK	1	1	19.73	19.79	19.70	21.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666		MPR (dB)
				3745.01	3750	3749.99		MPR (dB)
80	QPSK	1	1	19.69	19.76	19.67	21.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000		MPR (dB)
				3725	3750	3755		MPR (dB)
70	QPSK	1	1	19.73	19.76	19.60	21.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	651332		MPR (dB)
				3750.02	3750	3759.98		MPR (dB)
60	QPSK	1	1	19.68	19.67	19.69	21.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	651666		MPR (dB)
				3725.01	3750	3774.99		MPR (dB)
50	QPSK	1	1	19.68	19.72	19.56	21.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	652000		MPR (dB)
				19.64	19.66	19.55	21.0	0.0
40	QPSK	1	1	19.64	19.66	19.55	21.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652332		MPR (dB)
				3718.02	3750	3784.98		MPR (dB)
30	QPSK	1	1	19.69	19.70	19.65	21.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666		MPR (dB)
				3719.01	3750	3783.99		MPR (dB)
20	QPSK	1	1	19.64	19.72	19.58	21.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652832		MPR (dB)
				3707.52	3750	3792.48		MPR (dB)
15	QPSK	1	1	19.61	19.73	19.69	21.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000		MPR (dB)
				3705	3750	3795		MPR (dB)
10	QPSK	1	1	19.64	19.71	19.57	21.0	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)								
				3750				
100	P12 BPSK	1	1	19.72				
100	P12 BPSK	1	137	19.82			20.0	0.0
100	P12 BPSK	1	271	19.74				
100	P12 BPSK	135	0	19.69			20.0	0.0
100	P12 BPSK	135	69	19.80			20.0	0.0
100	P12 BPSK	135	138	19.77			20.0	0.0
100	P12 BPSK	270	0	19.76				
100	QPSK	1	1	19.84				
100	QPSK	1	137	19.78			20.0	0.0
100	QPSK	1	271	19.81				
100	QPSK	135	0	19.82			20.0	0.0
100	QPSK	135	69	19.83			20.0	0.0
100	QPSK	135	138	19.70			20.0	0.0
100	QPSK	270	0	19.79			20.0	0.0
100	16QAM	1	1	19.71			20.0	0.0
100	16QAM	1	1	19.82			20.0	0.0
100	256QAM	1	1	19.76			20.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	652032		MPR (dB)
				3745.02	3750	3754.98		MPR (dB)
90	QPSK	1	1	19.76	19.72	19.80	20.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666		MPR (dB)
				3745.01	3750	3749.99		MPR (dB)
80	QPSK	1	1	19.71	19.57	19.73	20.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000		MPR (dB)
				3725	3750	3755		MPR (dB)
70	QPSK	1	1	19.70	19.65	19.73	20.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	651332		MPR (dB)
				3750.02	3750	3759.98		MPR (dB)
60	QPSK	1	1	19.65	19.70	19.77	20.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	651666		MPR (dB)
				3725.01	3750	3774.99		MPR (dB)
50	QPSK	1	1	19.61	19.59	19.72	20.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	652000		MPR (dB)
				19.67	19.59	19.75	20.0	0.0
40	QPSK	1	1	19.67	19.59	19.75	20.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652332		MPR (dB)
				3718.02	3750	3784.98		MPR (dB)
30	QPSK	1	1	19.75	19.63	19.77	20.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666		MPR (dB)
				3719.01	3750	3783.99		MPR (dB)
20	QPSK	1	1	19.61	19.64	19.78	20.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652832		MPR (dB)
				3707.52	3750	3792.48		MPR (dB)
15	QPSK	1	1	19.75	19.59	19.65	20.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000		MPR (dB)
				3705	3750	3795		MPR (dB)
10	QPSK	1	1	19.67	19.58	19.71	20.0	0.0

Part270(HPUE)_n78_Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3750	3750		
100	P12 BPSK	1	1	21.62				
100	P12 BPSK	1	137	21.86			23.0	0.0
100	P12 BPSK	1	271	21.71				
100	P12 BPSK	135	0	21.70			23.0	0.0
100	P12 BPSK	135	69	21.84			23.0	0.0
100	P12 BPSK	135	138	21.89			23.0	0.0
100	P12 BPSK	270	0	21.71				
100	QPSK	1	1	21.73				
100	QPSK	1	137	21.85			23.0	0.0
100	QPSK	1	271	21.82				
100	QPSK	135	0	21.86			23.0	0.0
100	QPSK	135	69	21.70			23.0	0.0
100	QPSK	135	138	21.84			23.0	0.0
100	QPSK	270	0	21.88			23.0	0.0
100	16QAM	1	1	21.85			23.0	0.0
100	16QAM	1	1	21.89			23.0	0.0
100	256QAM	1	1	21.87			22.5	0.5
Channel								
Frequency (MHz)								
				648968	650000	652032		MPR (dB)
				3745.02	3750	3754.98		MPR (dB)
90	QPSK	1	1	21.66	21.58	21.59	23.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666		MPR (dB)
				3745.01	3750	3749.99		MPR (dB)
80	QPSK	1	1	21.62	21.46	21.56	23.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000		MPR (dB)
				3725	3750	3755		MPR (dB)
70	QPSK	1	1	21.51	21.57	21.53	23.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	651332		MPR (dB)
				3750.02	3750	3759.98		MPR (dB)
60	QPSK	1	1	21.52	21.46	21.52	23.0	0.0
Channel								
Frequency (MHz)								
				648968	650000	651666		MPR (dB)
				3725.01	3750	3774.99		MPR (dB)
50	QPSK	1	1	21.57	21.52	21.46	23.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	652000		MPR (dB)
				21.54	21.51	21.57	23.0	0.0
40	QPSK	1	1	21.54	21.51	21.57	23.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652332		MPR (dB)
				3718.02	3750	3784.98		MPR (dB)
30	QPSK	1	1	21.54	21.45	21.55	23.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666		MPR (dB)
				3719.01	3750	3783.99		MPR (dB)
20	QPSK	1	1	21.55	21.45	21.45	23.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652832		MPR (dB)
				3707.52	3750	3792.48		MPR (dB)
15	QPSK	1	1	21.57	21.53	21.54	23.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000		MPR (dB)
				3705	3750	3795		MPR (dB)
10	QPSK	1	1	21.57	21.54	21.56	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	17.89					
100	P2BPSK	1	137	17.78			18.5	0.0	
100	P2BPSK	1	211	17.82					
100	P2BPSK	135	0	17.80			18.5	0.0	
100	P2BPSK	135	69	17.79			18.5	0.0	
100	P2BPSK	135	138	17.91			18.5	0.0	
100	P2BPSK	210	0	17.79					
100	QPSK	1	1	17.53					
100	QPSK	1	137	17.82			18.5	0.0	
100	QPSK	1	211	17.78					
100	QPSK	135	0	17.79			18.5	0.0	
100	QPSK	135	69	17.80			18.5	0.0	
100	QPSK	135	138	17.78					
100	QPSK	270	0	17.85			18.5	0.0	
100	16QAM	1	1	17.89			18.5	0.0	
100	64QAM	1	1	17.91			18.5	0.0	
100	256QAM	1	1	17.08			17.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.85	17.91	17.90	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.79	17.78	17.86	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.23	17.20	17.20	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.30	17.29	17.29	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.72	17.84	17.78	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.79	17.85	17.82	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.83	17.88	17.82	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.74	17.77	17.77	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.77	17.80	17.83	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.72	17.78	17.86	18.5	0.0	

Part270(HPUE)_n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2BPSK	1	1	19.82					
100	P2BPSK	1	137	19.81			20.5	0.0	
100	P2BPSK	1	211	19.89					
100	P2BPSK	135	0	19.85			20.5	0.0	
100	P2BPSK	135	69	19.79			20.5	0.0	
100	P2BPSK	135	138	19.83			20.5	0.0	
100	P2BPSK	210	0	19.84					
100	QPSK	1	1	19.51					
100	QPSK	1	137	19.78			20.5	0.0	
100	QPSK	1	211	19.86					
100	QPSK	135	0	19.89			20.5	0.0	
100	QPSK	135	69	19.90			20.5	0.0	
100	QPSK	135	138	19.83					
100	QPSK	270	0	19.86			20.5	0.0	
100	16QAM	1	1	19.89			20.5	0.0	
100	64QAM	1	1	19.85			20.5	0.0	
100	256QAM	1	1	18.20			18.5	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.77	19.90	19.83	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.72	19.77	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.70	19.76	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.72	19.73	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.75	19.89	19.73	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.74	19.87	19.74	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.82	19.89	19.81	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.70	19.83	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.64	19.88	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.72	19.77	19.79	20.5	0.0	



Band 41_Ant 1_Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.32	23.34	23.49	23.28	23.17	24	
20	QPSK	50	0	23.50	23.54	23.61	23.50	23.50	23	

Band 41_Ant 1_DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.48	18.30	18.53	18.30	18.30	19.3	
20	QPSK	50	0	18.47	18.36	18.50	18.30	18.20	19.3	

Band 41_Ant 1_DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.31	20.39	20.44	20.41	20.30	21.3	
20	QPSK	50	0	20.38	20.29	20.40	20.30	20.20	21.3	

Band 41_Ant 1_DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.32	23.34	23.49	23.28	23.17	24	
20	QPSK	50	0	23.50	23.54	23.61	23.50	23.50	23	

Band 41_Ant 1_DSI 6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.36	22.41	22.52	22.44	22.30	23.3	
20	QPSK	50	0	22.31	22.37	22.43	22.27	22.20	23	

Band 41_Ant 1_DSI 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.50	18.53	18.72	18.50	18.50	17.3	
20	QPSK	50	0	18.54	18.50	18.65	18.50	18.57	17.3	

Band 41_Ant 0_Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.80	23.02	23.13	23.09	23.12	24	
20	QPSK	50	0	23.00	23.14	23.20	23.18	23.20	23	

Band 41_Ant 0_DSI 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.80	23.02	23.13	23.09	23.12	24	
20	QPSK	50	0	23.00	23.14	23.20	23.18	23.20	23	

Band 41_Ant 0_DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.48	22.42	22.53	22.48	22.44	23.0	
20	QPSK	50	0	22.48	22.41	22.51	22.28	22.24	23	

Band 41_Ant 0_DSI 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.80	23.02	23.13	23.09	23.12	24	
20	QPSK	50	0	23.00	23.14	23.20	23.18	23.20	23	

Band 41_Ant 0_DSI 6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.40	22.02	22.13	22.09	22.12	24	
20	QPSK	50	0	22.40	22.14	22.24	22.18	22.20	23	

Band 41_Ant 0_DSI 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up (dBm)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.20	20.19	20.20	20.10	20.14	21.0	
20	QPSK	50	0	20.24	20.19	20.20	20.02	20.13	21.0	



n7_Ant 1_Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	23.14	23.27	23.11	24.0
40	QPSK	108	54	23.14	23.19	23.16	24.0

n7_Ant 1_DSI 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	17.86	17.72	17.58	18.5
40	QPSK	108	54	17.84	17.88	17.87	18.5

n7_Ant 1_DSI 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	17.86	17.72	17.58	18.5
40	QPSK	108	54	17.84	17.88	17.87	18.5

n7_Ant 1_DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	23.14	23.27	23.11	24.0
40	QPSK	108	54	23.14	23.19	23.16	24.0

n7_Ant 1_DSI 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	21.73	21.61	21.76	22.5
40	QPSK	108	54	21.73	21.76	21.73	22.5

n7_Ant 1_DSI 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	18.30	18.28	18.13	17.0
40	QPSK	108	54	18.25	18.25	18.00	17.0

n7_Ant 0_Default							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	22.48	22.52	22.40	24.0
40	QPSK	108	54	22.39	22.43	22.36	24.0

n7_Ant 0_DSI 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	22.48	22.52	22.40	24.0
40	QPSK	108	54	22.39	22.43	22.36	24.0

n7_Ant 0_DSI 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	18.92	18.92	18.95	20.5
40	QPSK	108	54	18.91	18.97	18.90	20.5

n7_Ant 0_DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	23.40	23.50	23.40	24.0
40	QPSK	108	54	23.39	23.43	23.38	24.0

n7_Ant 0_DSI 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	19.42	19.33	19.41	21.0
40	QPSK	108	54	19.33	19.40	19.31	21.0

n7_Ant 0_DSI 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Turn-up limit (dBm)
Channel							
Frequency (MHz)				2500	2500	2500	
40	QPSK	1	1	17.47	17.61	17.44	18.0
40	QPSK	108	54	17.46	17.56	17.51	18.0



n38_Ant_2_Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				518000	519000	520000			
40	QPSK	1	1	22.77	22.83	22.76	24.0		
40	QPSK	50	28	22.75	22.75	22.73	24.0		

n38_Ant_2_DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	22.77	22.83	22.76	24.0		
40	QPSK	50	28	22.75	22.75	22.73	24.0		

n38_Ant_2_DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	21.22	21.38	21.20	22.5		
40	QPSK	50	28	21.11	21.32	21.09	22.5		

n38_Ant_2_DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	22.77	22.83	22.76	24.0		
40	QPSK	50	28	22.75	22.75	22.73	24.0		

n38_Ant_2_DSI 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	21.22	21.38	21.20	22.5		
40	QPSK	50	28	21.11	21.32	21.09	22.5		

n38_Ant_2_DSI 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	18.89	18.95	18.87	20.0		
40	QPSK	50	28	18.85	18.85	18.81	20.0		

n38_Ant_1_Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				518000	519000	520000			
40	QPSK	1	1	23.23	23.24	22.97	24.0		
40	QPSK	50	28	23.16	23.16	22.94	24.0		

n38_Ant_1_DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	18.21	18.25	18.47	17.5		
40	QPSK	50	28	18.08	18.12	18.46	17.5		

n38_Ant_1_DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	18.87	18.75	18.60	19.5		
40	QPSK	50	28	18.83	18.72	18.58	19.5		

n38_Ant_1_DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	23.23	23.24	22.97	24.0		
40	QPSK	50	28	23.16	23.16	22.94	24.0		

n38_Ant_1_DSI 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	21.63	21.71	21.55	22.5		
40	QPSK	50	28	21.58	21.65	21.51	22.5		

n38_Ant_1_DSI 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2590	2595	2600			
40	QPSK	1	1	18.24	18.33	18.01	18.0		
40	QPSK	50	28	18.13	18.30	18.09	18.0		

n41_Ant_2_Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				520000	518998	520000			
100	QPSK	1	1	22.74	22.81	22.89	24.0		
100	QPSK	135	69	22.68	22.73	22.68	24.0		

n41_Ant_2_DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	22.74	22.81	22.93	24.0		
100	QPSK	135	69	22.68	22.73	22.68	24.0		

n41_Ant_2_DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	21.39	21.50	21.43	22.5		
100	QPSK	135	69	21.28	21.31	21.31	22.5		

n41_Ant_2_DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	22.74	22.81	22.89	24.0		
100	QPSK	135	69	22.68	22.73	22.68	24.0		

n41_Ant_2_DSI 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	21.49	21.60	21.53	22.5		
100	QPSK	135	69	21.48	21.57	21.51	22.5		

n41_Ant_2_DSI 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	18.94	18.98	18.89	20.0		
100	QPSK	135	69	18.83	18.90	18.84	20.0		

n41_Ant_1_Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				520000	518998	520000			
100	QPSK	1	1	23.06	23.14	22.93	24.0		
100	QPSK	135	69	23.02	23.11	22.87	24.0		

n41_Ant_1_DSI 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	18.82	18.75	18.51	17.5		
100	QPSK	135	69	18.83	18.89	18.41	17.5		

n41_Ant_1_DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	18.82	18.69	18.43	19.5		
100	QPSK	135	69	18.87	18.81	18.38	19.5		

n41_Ant_1_DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	23.08	23.14	22.93	24.0		
100	QPSK	135	69	23.02	23.11	22.87	24.0		

n41_Ant_1_DSI 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	21.65	21.71	21.55	22.5		
100	QPSK	135	69	21.68	21.62	21.47	22.5		

n41_Ant_1_DSI 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel									
Frequency (MHz)				2594.91	2592.99	2600			
100	QPSK	1	1	18.22	18.30	18.02	18.0		
100	QPSK	135	69	18.17	18.22	18.09	18.0		



Reduced Power Mode for Other PA DSI3

Band 7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.29	21.41	21.52			
20	QPSK	1	49	21.17	21.30	21.12	22.4	0	
20	QPSK	1	99	21.25	21.40	21.31			
20	QPSK	50	0	21.16	21.37	21.23			
20	QPSK	50	24	21.11	21.36	21.13	22.4	0	
20	QPSK	50	50	21.10	21.21	21.12			
20	QPSK	100	0	21.13	21.32	21.24			
20	16QAM	1	0	21.17	21.31	21.20			
20	16QAM	1	49	21.16	21.35	21.29	22.4	0	
20	16QAM	1	99	21.09	21.24	21.12			
20	16QAM	50	0	20.39	20.25	20.38			
20	16QAM	50	24	20.28	20.40	20.29	21.9	0.5	
20	16QAM	50	50	20.27	20.33	20.33			
20	16QAM	100	0	20.24	20.31	20.23			
20	64QAM	1	0	20.40	20.42	20.41			
20	64QAM	1	49	20.29	20.25	20.36	21.9	0.5	
20	64QAM	1	99	20.21	20.22	20.30			
20	64QAM	50	0	19.45	19.37	19.43			
20	64QAM	50	24	19.40	19.48	19.44			
20	64QAM	50	50	19.30	19.40	19.38	20.9	1.5	
20	64QAM	100	0	19.31	19.34	19.45			
20	256QAM	1	0	17.50	17.52	17.39			
20	256QAM	1	49	17.43	17.35	17.26	18.9	3.5	
20	256QAM	1	99	17.30	17.46	17.31			
20	256QAM	50	0	17.49	17.32	17.23			
20	256QAM	50	24	17.48	17.43	17.31	18.9	3.5	
20	256QAM	50	50	17.47	17.39	17.30			
20	256QAM	100	0	17.35	17.45	17.24			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	21.26	21.36	21.29			
15	QPSK	1	37	21.09	21.23	20.93	22.4	0	
15	QPSK	1	74	21.13	21.34	21.29			
15	QPSK	36	0	21.12	21.19	21.07			
15	QPSK	36	20	20.95	21.29	21.09	22.4	0	
15	QPSK	36	39	21.03	21.14	21.07			
15	QPSK	75	0	21.01	21.24	21.05			
15	16QAM	1	0	21.13	21.15	21.06			
15	16QAM	1	37	21.09	21.30	21.28	22.4	0	
15	16QAM	1	74	21.02	21.08	21.09			
15	16QAM	36	0	20.26	20.07	20.36			
15	16QAM	36	20	20.23	20.26	20.21	21.9	0.5	
15	16QAM	36	39	20.09	20.21	20.31			
15	16QAM	75	0	20.12	20.12	20.10			
15	64QAM	1	0	20.39	20.26	20.32			
15	64QAM	1	37	20.15	20.22	20.35	21.9	0.5	
15	64QAM	1	74	20.08	20.12	20.12			
15	64QAM	36	0	19.37	19.30	19.31			
15	64QAM	36	20	19.31	19.46	19.39	20.9	1.5	
15	64QAM	36	39	19.15	19.36	19.37			
15	64QAM	75	0	19.21	19.19	19.48			
15	256QAM	1	0	17.39	17.46	17.31			
15	256QAM	1	37	17.27	17.29	17.22	18.9	3.5	
15	256QAM	1	74	17.28	17.29	17.22			
15	256QAM	36	0	17.37	17.27	17.08			
15	256QAM	36	20	17.44	17.41	17.20	18.9	3.5	
15	256QAM	36	39	17.42	17.37	17.27			
15	256QAM	75	0	17.17	17.36	17.22			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	21.22	21.22	21.17			
10	QPSK	1	25	20.98	21.16	20.95	22.4	0	
10	QPSK	1	49	21.17	21.20	21.26			
10	QPSK	25	0	21.07	21.22	21.07			
10	QPSK	25	12	20.96	21.28	21.02	22.4	0	
10	QPSK	25	25	20.99	21.09	20.94			
10	QPSK	50	0	20.95	21.28	21.10			
10	16QAM	1	0	21.15	21.23	21.14			
10	16QAM	1	25	21.13	21.20	21.20	22.4	0	
10	16QAM	1	49	20.94	21.22	20.98			
10	16QAM	25	0	20.35	20.15	20.27			
10	16QAM	25	12	20.14	20.27	20.09	21.9	0.5	
10	16QAM	25	25	20.23	20.24	20.16			
10	16QAM	50	0	20.10	20.16	20.19			
10	64QAM	1	0	20.23	20.31	20.24			
10	64QAM	1	25	20.09	20.10	20.37	21.9	0.5	
10	64QAM	1	49	20.11	20.02	20.16			
10	64QAM	25	0	19.29	19.32	19.28			
10	64QAM	25	12	19.39	19.39	19.34	20.9	1.5	
10	64QAM	25	25	19.18	19.32	19.20			
10	64QAM	50	0	19.20	19.31	19.41			
10	256QAM	1	0	17.47	17.43	17.32			
10	256QAM	1	25	17.30	17.30	17.23	18.9	3.5	
10	256QAM	1	49	17.16	17.45	17.28			
10	256QAM	25	0	17.30	17.19	17.19			
10	256QAM	25	12	17.47	17.42	17.22	18.9	3.5	
10	256QAM	25	25	17.41	17.34	17.16			
10	256QAM	50	0	17.28	17.43	17.22			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	21.27	21.27	21.29			
5	QPSK	1	12	21.04	21.14	21.05	22.4	0	
5	QPSK	1	24	21.12	21.36	21.14			
5	QPSK	12	0	21.06	21.29	21.08			
5	QPSK	12	7	20.97	21.26	20.98	22.4	0	
5	QPSK	12	13	20.99	21.02	21.08			
5	QPSK	25	0	21.10	21.20	21.17			
5	16QAM	1	0	21.15	21.14	21.18			
5	16QAM	1	12	20.99	21.31	21.26	22.4	0	
5	16QAM	1	24	21.02	21.12	20.97			
5	16QAM	12	0	20.28	20.07	20.20			
5	16QAM	12	7	20.16	20.33	20.18	21.9	0.5	
5	16QAM	12	13	20.14	20.24	20.28			
5	16QAM	25	0	20.15	20.23	20.05			
5	64QAM	1	0	20.35	20.23	20.23			
5	64QAM	1	12	20.27	20.10	20.38	21.9	0.5	
5	64QAM	1	24	20.19	20.19	20.13			
5	64QAM	12	0	19.38	19.23	19.29			
5	64QAM	12	7	19.29	19.46	19.39	20.9	1.5	
5	64QAM	12	13	19.19	19.26	19.30			
5	64QAM	25	0	19.13	19.14	19.42			
5	256QAM	1	0	17.36	17.42	17.38			
5	256QAM	1	12	17.30	17.16	17.18	18.9	3.5	
5	256QAM	1	24	17.11	17.27	17.25			
5	256QAM	12	0	17.48	17.30	17.11			
5	256QAM	12	7	17.40	17.27	17.17			
5	256QAM	12	13	17.44	17.29	17.24	18.9	3.5	
5	256QAM	25	0	17.22	17.26	17.16			

Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.93	17.10	16.99			
20	QPSK	1	49	16.86	16.95	16.98	17.7	0	
20	QPSK	1	99	16.79	17.03	16.85			
20	QPSK	50	0	16.87	17.07	16.93			
20	QPSK	50	24	16.82	16.90	16.86	17.7	0	
20	QPSK	50	50	16.86	16.96	16.76			
20	QPSK	100	0	16.80	17.06	16.78			
20	16QAM	1	0	16.72	17.08	16.86			
20	16QAM	1	49	16.88	16.99	16.91	17.7	0	
20	16QAM	1	99	16.71	16.95	16.80			
20	16QAM	50	0	16.77	17.00	16.83			
20	16QAM	50	24	16.77	16.96	16.79	17.7	0	
20	16QAM	50	50	16.90	16.89	16.86			
20									



Reduced Power Mode for Other PA DSI6

Band 7_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.67	21.75	21.71		
20	QPSK	1	49	21.62	21.57	21.64	22.9	0
20	QPSK	1	99	21.65	21.70	21.65		
20	QPSK	50	0	21.66	21.73	21.67		
20	QPSK	50	24	21.59	21.60	21.63	22.9	0
20	QPSK	50	50	21.58	21.64	21.63		
20	QPSK	100	0	21.62	21.70	21.67		
20	16QAM	1	0	21.58	21.58	21.63		
20	16QAM	1	49	21.65	21.64	21.51	22.9	0
20	16QAM	1	99	21.59	21.65	21.63		
20	16QAM	50	0	20.39	20.25	20.38		
20	16QAM	50	24	20.28	20.40	20.29	21.9	1
20	16QAM	50	50	20.27	20.33	20.33		
20	16QAM	100	0	20.24	20.31	20.23		
20	64QAM	1	0	20.40	20.42	20.41		
20	64QAM	1	49	20.29	20.25	20.36	21.9	1
20	64QAM	1	99	20.21	20.22	20.30		
20	64QAM	50	0	19.45	19.37	19.43		
20	64QAM	50	24	19.40	19.48	19.44		
20	64QAM	50	50	19.30	19.40	19.38	20.9	2
20	64QAM	100	0	19.31	19.34	19.45		
20	256QAM	1	0	17.50	17.52	17.39		
20	256QAM	1	49	17.43	17.35	17.26	18.9	4
20	256QAM	1	99	17.30	17.46	17.31		
20	256QAM	50	0	17.49	17.32	17.23		
20	256QAM	50	24	17.48	17.43	17.31	18.9	4
20	256QAM	50	50	17.47	17.39	17.30		
20	256QAM	100	0	17.35	17.45	17.24		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.52	21.70	21.56		
15	QPSK	1	37	21.59	21.56	21.59	22.9	0
15	QPSK	1	74	21.56	21.56	21.48		
15	QPSK	36	0	21.55	21.54	21.55		
15	QPSK	36	20	21.42	21.46	21.59	22.9	0
15	QPSK	36	39	21.39	21.54	21.45		
15	QPSK	75	0	21.57	21.63	21.49		
15	16QAM	1	0	21.57	21.46	21.52		
15	16QAM	1	37	21.55	21.47	21.34	22.9	0
15	16QAM	1	74	21.47	21.55	21.48		
15	16QAM	36	0	20.26	20.07	20.36		
15	16QAM	36	20	20.23	20.26	20.21	21.9	1
15	16QAM	36	39	20.09	20.21	20.31		
15	16QAM	75	0	20.12	20.12	20.10		
15	64QAM	1	0	20.39	20.26	20.32		
15	64QAM	1	37	20.15	20.22	20.35	21.9	1
15	64QAM	1	74	20.08	20.12	20.12		
15	64QAM	36	0	19.37	19.30	19.31		
15	64QAM	36	20	19.31	19.46	19.39	20.9	2
15	64QAM	36	39	19.15	19.36	19.37		
15	64QAM	75	0	19.21	19.19	19.48		
15	256QAM	1	0	17.39	17.46	17.31		
15	256QAM	1	37	17.27	17.29	17.22	18.9	4
15	256QAM	1	74	17.28	17.29	17.22		
15	256QAM	36	0	17.37	17.27	17.08		
15	256QAM	36	20	17.44	17.41	17.20	18.9	4
15	256QAM	36	39	17.42	17.37	17.27		
15	256QAM	75	0	17.17	17.36	17.22		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.56	21.60	21.54		
10	QPSK	1	25	21.58	21.50	21.46	22.9	0
10	QPSK	1	49	21.64	21.62	21.58		
10	QPSK	25	0	21.62	21.65	21.53		
10	QPSK	25	12	21.45	21.46	21.58	22.9	0
10	QPSK	25	25	21.56	21.49	21.50		
10	QPSK	50	0	21.59	21.63	21.60		
10	16QAM	1	0	21.54	21.49	21.54		
10	16QAM	1	25	21.60	21.48	21.41	22.9	0
10	16QAM	1	49	21.46	21.64	21.59		
10	16QAM	25	0	20.35	20.15	20.27		
10	16QAM	25	12	20.14	20.27	20.09	21.9	1
10	16QAM	25	25	20.23	20.24	20.16		
10	16QAM	50	0	20.10	20.16	20.19		
10	64QAM	1	0	20.23	20.31	20.24		
10	64QAM	1	25	20.09	20.10	20.37	21.9	1
10	64QAM	1	49	20.11	20.02	20.16		
10	64QAM	25	0	19.29	19.32	19.28		
10	64QAM	25	12	19.39	19.39	19.34	20.9	2
10	64QAM	25	25	19.18	19.32	19.20		
10	64QAM	50	0	19.20	19.31	19.41		
10	256QAM	1	0	17.47	17.43	17.32		
10	256QAM	1	25	17.30	17.30	17.23	18.9	4
10	256QAM	1	49	17.16	17.45	17.28		
10	256QAM	25	0	17.30	17.19	17.19		
10	256QAM	25	12	17.47	17.42	17.22	18.9	4
10	256QAM	25	25	17.41	17.34	17.16		
10	256QAM	50	0	17.28	17.43	17.22		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.48	21.73	21.64		
5	QPSK	1	12	21.58	21.56	21.50	22.9	0
5	QPSK	1	24	21.45	21.66	21.49		
5	QPSK	12	0	21.62	21.59	21.64		
5	QPSK	12	7	21.53	21.55	21.62		
5	QPSK	12	13	21.38	21.56	21.54	22.9	0
5	QPSK	25	0	21.46	21.58	21.64		
5	16QAM	1	0	21.47	21.43	21.61		
5	16QAM	1	12	21.48	21.51	21.36	22.9	0
5	16QAM	1	24	21.57	21.60	21.60		
5	16QAM	12	0	20.28	20.07	20.20		
5	16QAM	12	7	20.16	20.33	20.18	21.9	1
5	16QAM	12	13	20.14	20.24	20.28		
5	16QAM	25	0	20.15	20.23	20.05		
5	64QAM	1	0	20.35	20.23	20.23		
5	64QAM	1	12	20.27	20.10	20.38	21.9	1
5	64QAM	1	24	20.19	20.19	20.13		
5	64QAM	12	0	19.38	19.23	19.29		
5	64QAM	12	7	19.29	19.46	19.39	20.9	2
5	64QAM	12	13	19.19	19.26	19.30		
5	64QAM	25	0	19.13	19.14	19.42		
5	256QAM	1	0	17.36	17.42	17.38		
5	256QAM	1	12	17.30	17.16	17.18	18.9	4
5	256QAM	1	24	17.11	17.27	17.25		
5	256QAM	12	0	17.48	17.30	17.11		
5	256QAM	12	7	17.40	17.27	17.17		
5	256QAM	12	13	17.44	17.29	17.24	18.9	4
5	256QAM	25	0	17.22	17.26	17.16		

Band 7_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.49	21.50	21.42		
20	QPSK	1	49	21.33	21.35	21.39	22.2	0
20	QPSK	1	99	21.30	21.33	21.26		
20	QPSK	50	0	21.44	21.47	21.35		
20	QPSK	50	24	21.36	21.34	21.28	22.2	0
20	QPSK	50	50	21.43	21.38	21.29		
20	QPSK	100	0	21.42	21.45	21.26		
20	16QAM	1	0	21.36	21.34	21.39		
20	16QAM	1	49	21.40	21.37	21.38	22.2	0
20	16QAM	1	99	21.34	21.37	21.37		
20	16QAM	50	0	21.34	21.45	21.25		
20	16QAM	50	24	21.42	21.39	21.30	22.2	0
20	16QAM	50	50	21.30	21.44	21.27		
20	16QAM	100	0	21.48	21.31	21.27		
20	64QAM	1	0	21.33	21.39	21.39		
20	64QAM	1	49	21.42	21.48	21.39	22.2	0
20	64QAM	1	99	21.32	21.49	21.30		
20	64QAM	50	0	20.71	20.84	20.70		
20	64QAM	50	24	20.77	20.82	20.77		
20	64QAM	50	50	20.63	20.80	20.66	21.7	0.5
20	64QAM	100	0	20.71	20.79	20.80		
20	256QAM	1	0	18.77	18.91	18.79		



Reduced Power Mode for Other PA DSI7

Band 7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20650	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	18.71	18.85	18.81			
20	QPSK	1	49	18.67	18.73	18.79	19.9	0	
20	QPSK	1	99	18.54	18.83	18.77			
20	QPSK	50	0	18.63	18.82	18.77			
20	QPSK	50	24	18.53	18.74	18.72	19.9	0	
20	QPSK	50	50	18.52	18.69	18.68			
20	QPSK	100	0	18.61	18.80	18.77			
20	16QAM	1	0	18.55	18.68	18.74			
20	16QAM	1	49	18.68	18.78	18.78	19.9	0	
20	16QAM	1	99	18.59	18.75	18.66			
20	16QAM	50	0	18.68	18.71	18.74			
20	16QAM	50	24	18.56	18.65	18.77	19.9	0	
20	16QAM	50	50	18.70	18.73	18.64			
20	16QAM	100	0	18.54	18.69	18.69			
20	64QAM	1	0	18.64	18.72	18.63			
20	64QAM	1	49	18.69	18.83	18.66	19.9	0	
20	64QAM	1	99	18.69	18.80	18.63			
20	64QAM	50	0	18.64	18.69	18.76			
20	64QAM	50	24	18.68	18.84	18.64	19.9	0	
20	64QAM	50	50	18.53	18.65	18.72			
20	64QAM	100	0	18.53	18.66	18.71			
20	256QAM	1	0	17.50	17.52	17.39			
20	256QAM	1	49	17.43	17.35	17.26	18.9	1	
20	256QAM	1	99	17.30	17.46	17.31			
20	256QAM	50	0	17.49	17.32	17.23			
20	256QAM	50	24	17.48	17.43	17.31	18.9	1	
20	256QAM	50	50	17.47	17.39	17.30			
20	256QAM	100	0	17.35	17.45	17.24			
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	18.53	18.81	18.62			
15	QPSK	1	37	18.60	18.65	18.69	19.9	0	
15	QPSK	1	74	18.47	18.65	18.71			
15	QPSK	36	0	18.54	18.80	18.66			
15	QPSK	36	20	18.45	18.62	18.59	19.9	0	
15	QPSK	36	39	18.42	18.63	18.67			
15	QPSK	75	0	18.45	18.79	18.74			
15	16QAM	1	0	18.43	18.53	18.55			
15	16QAM	1	37	18.49	18.73	18.74	19.9	0	
15	16QAM	1	74	18.41	18.63	18.46			
15	16QAM	36	0	18.49	18.63	18.72			
15	16QAM	36	20	18.37	18.56	18.63	19.9	0	
15	16QAM	36	39	18.69	18.59	18.44			
15	16QAM	75	0	18.51	18.62	18.59			
15	64QAM	1	0	18.44	18.65	18.53			
15	64QAM	1	37	18.51	18.81	18.60	19.9	0	
15	64QAM	1	74	18.67	18.69	18.62			
15	64QAM	36	0	18.52	18.64	18.65			
15	64QAM	36	20	18.62	18.67	18.56	19.9	0	
15	64QAM	36	39	18.35	18.55	18.65			
15	64QAM	75	0	18.50	18.52	18.61			
15	256QAM	1	0	17.39	17.46	17.31			
15	256QAM	1	37	17.27	17.29	17.22	18.9	1	
15	256QAM	1	74	17.28	17.29	17.22			
15	256QAM	36	0	17.37	17.27	17.08			
15	256QAM	36	20	17.44	17.41	17.20	18.9	1	
15	256QAM	36	39	17.42	17.37	17.27			
15	256QAM	75	0	17.17	17.38	17.22			
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.59	18.73	18.63			
10	QPSK	1	25	18.64	18.62	18.72	19.9	0	
10	QPSK	1	49	18.46	18.81	18.61			
10	QPSK	25	0	18.57	18.76	18.67			
10	QPSK	25	12	18.45	18.57	18.70	19.9	0	
10	QPSK	25	25	18.37	18.62	18.64			
10	QPSK	50	0	18.56	18.67	18.57			
10	16QAM	1	0	18.44	18.53	18.59			
10	16QAM	1	25	18.59	18.65	18.56	19.9	0	
10	16QAM	1	49	18.53	18.56	18.46			
10	16QAM	25	0	18.63	18.62	18.66			
10	16QAM	25	12	18.51	18.52	18.58	19.9	0	
10	16QAM	25	25	18.68	18.62	18.46			
10	16QAM	50	0	18.49	18.64	18.54			
10	64QAM	1	0	18.51	18.63	18.61			
10	64QAM	1	25	18.62	18.74	18.48	19.9	0	
10	64QAM	1	49	18.50	18.78	18.49			
10	64QAM	25	0	18.48	18.67	18.65			
10	64QAM	25	12	18.49	18.71	18.54	19.9	0	
10	64QAM	25	25	18.33	18.52	18.65			
10	64QAM	50	0	18.35	18.54	18.70			
10	256QAM	1	0	17.47	17.43	17.32			
10	256QAM	1	25	17.30	17.30	17.23	18.9	1	
10	256QAM	1	49	17.16	17.45	17.18			
10	256QAM	25	0	17.30	17.19	17.19			
10	256QAM	25	12	17.47	17.42	17.22	18.9	1	
10	256QAM	25	25	17.41	17.34	17.16			
10	256QAM	50	0	17.28	17.43	17.22			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	18.57	18.70	18.79			
5	QPSK	1	12	18.56	18.65	18.65	19.9	0	
5	QPSK	1	24	18.37	18.75	18.68			
5	QPSK	12	0	18.55	18.67	18.58			
5	QPSK	12	7	18.38	18.72	18.53	19.9	0	
5	QPSK	12	13	18.43	18.50	18.54			
5	QPSK	25	0	18.49	18.64	18.64			
5	16QAM	1	0	18.51	18.49	18.60			
5	16QAM	1	12	18.50	18.59	18.71	19.9	0	
5	16QAM	1	24	18.41	18.55	18.57			
5	16QAM	12	0	18.62	18.59	18.68			
5	16QAM	12	7	18.52	18.45	18.74	19.9	0	
5	16QAM	12	13	18.98	18.58	18.55			
5	16QAM	25	0	18.51	18.49	18.53			
5	64QAM	1	0	18.59	18.64	18.56			
5	64QAM	1	12	18.68	18.73	18.55	19.9	0	
5	64QAM	1	24	18.56	18.65	18.55			
5	64QAM	12	0	18.58	18.61	18.56			
5	64QAM	12	7	18.66	18.72	18.62	19.9	0	
5	64QAM	12	13	18.51	18.56	18.52			
5	64QAM	25	0	18.42	18.46	18.68			
5	256QAM	1	0	17.36	17.42	17.38			
5	256QAM	1	12	17.30	17.16	17.18	18.9	1	
5	256QAM	1	24	17.11	17.27	17.25			
5	256QAM	12	0	17.48	17.30	17.11			
5	256QAM	12	7	17.40	17.27	17.17			
5	256QAM	12	13	17.44	17.29	17.24	18.9	1	
5	256QAM	25	0	17.22	17.26	17.16			

Band 7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	15.42	15.47	15.36			
20	QPSK	1	49	15.35	15.44	15.21	16.2	0	
20	QPSK	1	99	15.22	15.33	15.24			
20	QPSK	50	0	15.36	15.45	15.30			
20	QPSK	50	24	15.27	15.34	15.16	16.2	0	
20	QPSK	50	50	15.24	15.32	15.18			
20	QPSK	100	0	15.27	15.39	15.25			
20	16QAM	1	0	15.29	15.39	15.16			
20	16QAM	1	49	15.27	15.42	15.22	16.2	0	
20	16QAM	1	99	15.41	15.32	15.19			
20	16QAM	50	0	15.23	15.27	15.30			
20	16QAM	50	24	15.31	15.29	15.30	16.2	0	
20	16QAM	50	50	15.41	15.35	15.33			
20	16QAM	100	0						



Default				
Mode	Channel	Frequency (MHz)	Ant 8	
			Average power (dBm) Mbps	Tune-up Limit
BR / EDR	CH 00	2402	17.42	19.00
	CH 39	2441	17.80	19.50
	CH 78	2480	17.21	19.00

Standalone/Simultaneous				
Mode	Channel	Frequency (MHz)	Ant 8	
			Average power (dBm) Mbps	Tune-up Limit
BR / EDR	CH 00	2402	11.41	13.00
	CH 39	2441	12.25	14.00
	CH 78	2480	12.23	14.00



WiFi 6E	WiFi 6E			Default&&full power/Standalone/Simultaneous						Duty Cycle %
	Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		
				Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	
802.11ax-HE160 MCS0	15	6025	10.76	12.50	11.79	12.50	14.42	15.50	98.77	
	47	6185	9.32	11.00	10.60	11.00	13.12	14.00		
	111	6505	10.66	11.00	9.03	11.00	13.04	14.00		
	143	6665	10.27	11.50	9.98	11.50	13.24	14.50		
	207	6985	8.05	9.50	8.13	9.50	11.20	12.50		