



Part27Q n78 Ant 5 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		11.71				
100	PI2 BPSK	1	137		11.58			0.0	
100	PI2 BPSK	1	271		11.68				
100	PI2 BPSK	135	0		11.70			12.5	0.0
100	PI2 BPSK	135	69		11.87			12.5	0.0
100	PI2 BPSK	135	138		11.41			12.5	0.0
100	PI2 BPSK	270	0		11.86				
100	QPSK	1	1		11.81			12.5	0.0
100	QPSK	1	137		11.89				
100	QPSK	1	271		11.45				
100	QPSK	135	0		11.66			12.5	0.0
100	QPSK	135	69		11.79			12.5	0.0
100	QPSK	135	138		11.51				
100	QPSK	270	0		11.72			12.5	0.0
100	16QAM	1	1		11.44			12.5	0.0
100	64QAM	1	1		11.70			12.5	0.0
100	256QAM	1	1		11.66			12.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	12.5	0.0	
90	QPSK	1	1		11.70	11.58	11.61	12.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.02	3500.01	3510	12.5	0.0	
80	QPSK	1	1		11.70	11.64	11.59	12.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01	12.5	0.0	
70	QPSK	1	1		11.84	11.62	11.61	12.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	12.5	0.0	
60	QPSK	1	1		11.70	11.85	11.59	12.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	12.5	0.0	
50	QPSK	1	1		11.73	11.88	11.67	12.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	12.5	0.0	
40	QPSK	1	1		11.70	11.87	11.67	12.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462	3500.01	3533.02	12.5	0.0	
30	QPSK	1	1		11.74	11.70	11.63	12.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	12.5	0.0	
20	QPSK	1	1		11.70	11.83	11.66	12.5	0.0

Part27Q n78 PC2 Ant 5 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		14.69				
100	PI2 BPSK	1	137		14.58			15.5	0.0
100	PI2 BPSK	1	271		14.62				
100	PI2 BPSK	135	0		14.77			15.5	0.0
100	PI2 BPSK	135	69		14.48			15.5	0.0
100	PI2 BPSK	135	138		14.46			15.5	0.0
100	PI2 BPSK	270	0		14.77				
100	QPSK	1	1		14.86			15.5	0.0
100	QPSK	1	137		14.72				
100	QPSK	1	271		14.54				
100	QPSK	135	0		14.67			15.5	0.0
100	QPSK	135	69		14.78			15.5	0.0
100	QPSK	135	138		14.58				
100	QPSK	270	0		14.76			15.5	0.0
100	16QAM	1	1		14.50			15.5	0.0
100	64QAM	1	1		14.64			15.5	0.0
100	256QAM	1	1		14.74			15.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	12.5	0.0	
90	QPSK	1	1		14.64	14.74	14.62	15.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.02	3500.01	3510	12.5	0.0	
80	QPSK	1	1		14.68	14.74	14.59	15.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01	12.5	0.0	
70	QPSK	1	1		14.87	14.70	14.55	15.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	12.5	0.0	
60	QPSK	1	1		14.70	14.75	14.62	15.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	12.5	0.0	
50	QPSK	1	1		14.70	14.74	14.57	15.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	12.5	0.0	
40	QPSK	1	1		14.81	14.75	14.58	15.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462	3500.01	3533.02	12.5	0.0	
30	QPSK	1	1		14.87	14.70	14.59	15.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	12.5	0.0	
20	QPSK	1	1		14.87	14.72	14.58	15.5	0.0



Reduced Power Mode for Main PA DSI3 Standalone

n2 Ant 0 DSI3 sig path: 164									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1850	1890	1900			
20	PI2 BPSK	1	1	16.72	16.72	16.70			
20	PI2 BPSK	1	53	16.51	16.66	16.39	17.5	0.0	
20	PI2 BPSK	1	104	16.51	16.54	16.47			
20	PI2 BPSK	50	0	16.50	16.71	16.59	17.5	0.0	
20	PI2 BPSK	50	28	16.54	16.67	16.49	17.5	0.0	
20	PI2 BPSK	50	56	16.44	16.63	16.57			
20	PI2 BPSK	100	0	16.50	16.71	16.62	17.5	0.0	
20	QPSK	1	1	16.65	16.79	16.61			
20	QPSK	1	53	16.59	16.69	16.66	17.5	0.0	
20	QPSK	1	104	16.56	16.67	16.55			
20	QPSK	50	0	16.64	16.63	16.68	17.5	0.0	
20	QPSK	50	28	16.47	16.69	16.47	17.5	0.0	
20	QPSK	50	56	16.66	16.56	16.66			
20	QPSK	100	0	16.51	16.67	16.59	17.5	0.0	
20	16QAM	1	1	16.35	16.48	16.32	17.5	0.0	
20	64QAM	1	1	16.41	16.61	16.38	17.5	0.0	
20	256QAM	1	1	16.69	16.40	16.51	17.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				1675	1800	1922.5			
15	QPSK	1	1	16.50	16.72	16.52	17.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.55	16.65	16.43	17.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1825	1880	1917.5			
5	QPSK	1	1	16.61	16.70	16.45	17.5	0.0	

n2 Ant 0 DSI3 sig path: 429									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1890	1900			
20	PI2 BPSK	1	1	16.68	16.85	16.74			
20	PI2 BPSK	1	53	16.61	16.76	16.57	17.5	0.0	
20	PI2 BPSK	1	104	16.55	16.69	16.68			
20	PI2 BPSK	50	0	16.62	16.89	16.79	17.5	0.0	
20	PI2 BPSK	50	28	16.71	16.81	16.59	17.5	0.0	
20	PI2 BPSK	50	56	16.59	16.77	16.65			
20	PI2 BPSK	100	0	16.67	16.77	16.61	17.5	0.0	
20	QPSK	1	1	16.74	16.89	16.78			
20	QPSK	1	53	16.61	16.82	16.68	17.5	0.0	
20	QPSK	1	104	16.64	16.86	16.76			
20	QPSK	50	0	16.72	16.72	16.76	17.5	0.0	
20	QPSK	50	28	16.56	16.82	16.69	17.5	0.0	
20	QPSK	50	56	16.76	16.69	16.74			
20	QPSK	100	0	16.68	16.79	16.71	17.5	0.0	
20	16QAM	1	1	16.54	16.66	16.54	17.5	0.0	
20	64QAM	1	1	16.54	16.72	16.58	17.5	0.0	
20	256QAM	1	1	16.78	16.51	16.64	17.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1675	1800	1922.5			
15	QPSK	1	1	16.70	16.81	16.72	17.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.71	16.87	16.69	17.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1825	1880	1917.5			
5	QPSK	1	1	16.68	16.76	16.67	17.5	0.0	

n5 Ant 0 DSI3 sig path: 168									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	838.5	843			
20	PI2 BPSK	1	1	23.12	23.13	23.09			
20	PI2 BPSK	1	53	23.07	23.11	23.01	24.0	0.0	
20	PI2 BPSK	1	104	23.05	23.05	22.85			
20	PI2 BPSK	50	0	22.80	22.61	22.50	23.5	0.5	
20	PI2 BPSK	50	28	22.91	22.97	22.80	24.0	0.0	
20	PI2 BPSK	50	56	22.44	22.83	22.65			
20	PI2 BPSK	100	0	22.42	22.56	22.37	23.5	0.5	
20	QPSK	1	1	23.20	23.22	23.14			
20	QPSK	1	53	23.07	23.11	23.11	24.0	0.0	
20	QPSK	1	104	23.00	23.08	22.98			
20	QPSK	50	0	21.95	21.98	21.84	23.0	1.0	
20	QPSK	50	28	22.85	22.90	22.92	24.0	0.0	
20	QPSK	50	56	21.98	22.02	22.00			
20	QPSK	100	0	22.03	22.08	22.01	23.0	1.0	
20	16QAM	1	1	22.91	22.92	22.90	23.0	1.0	
20	64QAM	1	1	20.50	20.55	20.41	21.5	2.5	
20	256QAM	1	1	18.34	18.56	18.51	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.00	23.12	23.09	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.12	23.17	23.09	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.00	23.05	23.03	24.0	0.0	



n5 Ant 0 DSI3 sig path: 414

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				834	836.5	839		
20	PI2 BPSK	1	1	22.82	22.91	22.89	24.0	0.0
20	PI2 BPSK	1	53	22.88	22.79	22.71		
20	PI2 BPSK	1	104	22.87	22.82	22.79		
20	PI2 BPSK	50	0	22.49	22.42	22.32	23.5	0.5
20	PI2 BPSK	50	28	22.69	22.85	22.72	24.0	0.0
20	PI2 BPSK	50	56	22.17	22.27	22.17	23.5	0.5
20	PI2 BPSK	100	0	22.15	22.32	22.20		
20	QPSK	1	1	22.87	22.92	22.77	24.0	0.0
20	QPSK	1	53	22.70	22.88	22.80		
20	QPSK	1	104	22.82	22.84	22.81		
20	QPSK	50	0	21.81	21.85	21.74	23.0	1.0
20	QPSK	50	28	22.69	22.81	22.76	24.0	0.0
20	QPSK	50	56	21.82	21.77	21.64	23.0	1.0
20	QPSK	100	0	21.73	21.81	21.69		
20	16QAM	1	1	22.14	22.22	22.21	23.0	1.0
20	64QAM	1	1	20.01	20.09	19.94	21.5	2.5
20	256QAM	1	1	18.52	18.55	18.38	19.5	4.5
Channel								
Frequency (MHz)								
				166300	167300	168300		
15	QPSK	1	1	22.85	22.75	22.68	24.0	0.0
Channel								
Frequency (MHz)								
				829	836.5	844		
10	QPSK	1	1	22.75	22.75	22.69	24.0	0.0
Channel								
Frequency (MHz)								
				165300	167300	169300		
5	QPSK	1	1	22.76	22.84	22.61	24.0	0.0

n12 Ant 0 DSI3 sig path: 172

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				141300	141500	141700		
15	PI2 BPSK	1	1	22.97	23.08	22.95	24.0	0.0
15	PI2 BPSK	1	40	22.85	22.99	22.87		
15	PI2 BPSK	1	77	22.88	23.02	22.91		
15	PI2 BPSK	36	0	22.53	22.63	22.57	23.5	0.5
15	PI2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI2 BPSK	36	43	22.46	22.56	22.48	23.5	0.5
15	PI2 BPSK	75	0	22.46	22.57	22.51		
15	QPSK	1	1	22.99	23.13	23.03	24.0	0.0
15	QPSK	1	40	23.03	23.09	22.98		
15	QPSK	1	77	22.93	23.05	22.93		
15	QPSK	36	0	21.97	22.03	21.96	23.0	1.0
15	QPSK	36	22	22.97	23.04	22.93	24.0	0.0
15	QPSK	36	43	21.86	21.93	21.87	23.0	1.0
15	QPSK	75	0	21.91	21.98	21.86		
15	16QAM	1	1	21.89	22.02	21.95	23.0	1.0
15	64QAM	1	1	20.54	20.65	20.51	21.5	2.5
15	256QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel								
Frequency (MHz)								
				140800	141500	142200		
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel								
Frequency (MHz)								
				140300	141500	142700		
5	QPSK	1	1	22.89	23.02	22.96	24.0	0.0

n12 Ant 0 DSI3 sig path: 417

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				704.5	707.5	709.5		
15	PI2 BPSK	1	1	22.81	22.85	22.82	24.0	0.0
15	PI2 BPSK	1	40	22.86	22.78	22.86		
15	PI2 BPSK	1	77	22.70	22.80	22.83		
15	PI2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI2 BPSK	36	22	22.76	22.79	22.74	24.0	0.0
15	PI2 BPSK	36	43	22.26	22.37	22.29	23.5	0.5
15	PI2 BPSK	75	0	22.31	22.48	22.32		
15	QPSK	1	1	22.92	22.93	22.88	24.0	0.0
15	QPSK	1	40	22.82	22.78	22.73		
15	QPSK	1	77	22.74	22.82	22.84		
15	QPSK	36	0	21.88	21.94	21.89	23.0	1.0
15	QPSK	36	22	22.80	22.89	22.88	24.0	0.0
15	QPSK	36	43	21.76	21.88	21.81	23.0	1.0
15	QPSK	75	0	21.80	21.96	21.86		
15	16QAM	1	1	22.20	22.24	22.13	23.0	1.0
15	64QAM	1	1	20.08	20.11	20.08	21.5	2.5
15	256QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel								
Frequency (MHz)								
				140800	141500	142200		
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel								
Frequency (MHz)								
				140300	141500	142700		
5	QPSK	1	1	22.90	22.76	22.79	24.0	0.0



n14 Ant 0 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				750	158100	159100		
Frequency (MHz)				750	158100	159100		
10	PI/2 BPSK	1	1	22.91			24.0	0.0
10	PI/2 BPSK	1	26	22.95				
10	PI/2 BPSK	1	50	22.92				
10	PI/2 BPSK	25	0	22.47			23.5	0.5
10	PI/2 BPSK	25	14	23.01			24.0	0.0
10	PI/2 BPSK	25	27	22.39			23.5	0.5
10	PI/2 BPSK	50	0	22.33				
10	QPSK	1	1	23.08				
10	QPSK	1	26	22.55			24.0	0.0
10	QPSK	1	50	22.98				
10	QPSK	25	0	22.02			23.0	1.0
10	QPSK	25	14	23.98			24.0	0.0
10	QPSK	25	27	22.09			23.0	1.0
10	QPSK	50	0	22.13				
10	16QAM	1	1	22.11			23.0	1.0
10	64QAM	1	1	20.22			21.5	2.5
10	256QAM	1	1	18.63			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	24.0	0.0

n25 Ant 0 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376500	379000		
Frequency (MHz)				1870	1882.5	1895		
40	PI/2 BPSK	1	1	16.92	17.00	16.98		
40	PI/2 BPSK	1	108	16.78	16.87	16.77	17.5	0.0
40	PI/2 BPSK	1	214	16.68	16.90	16.71		
40	PI/2 BPSK	108	0	16.79	16.94	16.81	17.5	0.0
40	PI/2 BPSK	108	54	16.79	16.97	16.82	17.5	0.0
40	PI/2 BPSK	108	108	16.81	16.88	16.75	17.5	0.0
40	PI/2 BPSK	216	0	16.88	16.93	16.80		
40	QPSK	1	1	16.89	17.08	16.89		
40	QPSK	1	108	16.79	16.87	16.95	17.5	0.0
40	QPSK	1	214	16.89	17.03	16.77		
40	QPSK	108	0	16.86	16.87	16.87	17.5	0.0
40	QPSK	108	54	16.68	16.84	16.82	17.5	0.0
40	QPSK	108	108	16.86	16.81	16.90	17.5	0.0
40	QPSK	216	0	16.81	16.88	16.80		
40	16QAM	1	1	16.76	16.83	16.62	17.5	0.0
40	64QAM	1	1	16.65	16.84	16.84	17.5	0.0
40	256QAM	1	1	16.87	16.67	16.83	17.5	0.0
Channel				373000	376500	380000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1885	1892.5	1900	17.5	0.0
30	QPSK	1	1	16.79	17.02	16.77	17.5	0.0
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5	17.5	0.0
25	QPSK	1	1	16.74	16.91	16.84	17.5	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905	17.5	0.0
20	QPSK	1	1	16.78	16.99	16.73	17.5	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	17.5	0.0
15	QPSK	1	1	16.87	16.97	16.80	17.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910	17.5	0.0
10	QPSK	1	1	16.83	16.91	16.74	17.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5	17.5	0.0
5	QPSK	1	1	16.81	17.02	16.79	17.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164500	165300	167000		
Frequency (MHz)				82.4	831.5	839		
20	PI/2 BPSK	1	1	22.98	23.13	23.07		
20	PI/2 BPSK	1	53	22.97	23.11	22.99	24.0	0.0
20	PI/2 BPSK	1	104	22.98	23.08	22.93		
20	PI/2 BPSK	50	0	22.87	22.77	22.83	23.5	0.5
20	PI/2 BPSK	50	28	23.06	23.11	23.03	24.0	0.0
20	PI/2 BPSK	50	56	22.83	22.75	22.67	23.5	0.5
20	PI/2 BPSK	100	0	22.69	22.78	22.67		
20	QPSK	1	1	23.12	23.17	23.09		
20	QPSK	1	53	23.08	23.14	23.08	24.0	0.0
20	QPSK	1	104	22.97	23.11	23.04		
20	QPSK	50	0	22.10	22.24	22.12	23.0	1.0
20	QPSK	50	28	23.06	23.15	23.07	24.0	0.0
20	QPSK	50	56	22.00	22.13	22.06	23.0	1.0
20	QPSK	100	0	22.19	22.28	22.19		
20	16QAM	1	1	22.29	22.42	22.28	23.0	1.0
20	64QAM	1	1	20.44	20.57	20.48	21.5	2.5
20	256QAM	1	1	18.72	18.86	18.81	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.98	23.11	22.96	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	23.05	23.08	23.00	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.98	23.05	22.98	24.0	0.0



n66 Ant 0 DSI3 sig path: 174

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	PI/2 BPSK	1	1	18.22	18.31	18.33		
40	PI/2 BPSK	1	108	18.10	18.30	18.04	19.5	0.0
40	PI/2 BPSK	1	214	18.03	18.26	18.05		
40	PI/2 BPSK	108	0	18.13	18.21	18.20	19.5	0.0
40	PI/2 BPSK	108	54	18.14	18.25	18.07	19.5	0.0
40	PI/2 BPSK	108	108	18.06	18.32	18.16	19.5	0.0
40	PI/2 BPSK	216	0	18.25	18.31	18.19		
40	QPSK	1	1	18.25	18.42	18.15		
40	QPSK	1	108	18.19	18.34	18.26	19.5	0.0
40	QPSK	1	214	18.11	18.33	18.16		
40	QPSK	108	0	18.26	18.22	18.29	19.5	0.0
40	QPSK	108	54	18.07	18.39	18.07	19.5	0.0
40	QPSK	108	108	18.15	18.18	18.23	19.5	0.0
40	QPSK	216	0	18.19	18.33	18.27		
40	16QAM	1	1	18.00	18.07	18.04	19.5	0.0
40	64QAM	1	1	18.04	18.15	18.02	19.5	0.0
40	256QAM	1	1	18.21	17.93	18.18	19.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.17	18.22	18.09	19.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.09	18.34	17.99	19.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.16	18.28	18.08	19.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.09	18.39	17.99	19.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.16	18.26	18.11	19.5	0.0

n66 Ant 0 DSI3 sig path: 432

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	18.30	18.22	18.22		
40	PI/2 BPSK	1	108	18.21	18.33	18.13	19.5	0.0
40	PI/2 BPSK	1	214	18.01	18.24	18.16		
40	PI/2 BPSK	108	0	18.09	18.32	18.19	19.5	0.0
40	PI/2 BPSK	108	54	18.12	18.22	18.20	19.5	0.0
40	PI/2 BPSK	108	108	18.01	18.22	18.15	19.5	0.0
40	PI/2 BPSK	216	0	18.14	18.26	18.16		
40	QPSK	1	1	18.21	18.34	18.20		
40	QPSK	1	108	18.06	18.23	18.21	19.5	0.0
40	QPSK	1	214	18.10	18.31	18.13		
40	QPSK	108	0	18.24	18.20	18.20	19.5	0.0
40	QPSK	108	54	18.03	18.31	18.07	19.5	0.0
40	QPSK	108	108	18.16	18.20	18.27	19.5	0.0
40	QPSK	216	0	18.08	18.25	18.21		
40	16QAM	1	1	17.97	18.05	18.05	19.5	0.0
40	64QAM	1	1	18.12	18.21	17.99	19.5	0.0
40	256QAM	1	1	18.24	18.00	18.15	19.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.09	18.31	18.09	19.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.16	18.27	18.13	19.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.12	18.20	18.10	19.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.06	18.19	18.00	19.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.14	18.21	18.03	19.5	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				340000	345000	345000			
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		18.49				
15	PI/2 BPSK	1	40		18.47		20.0	0.0	
15	PI/2 BPSK	1	77		18.32				
15	PI/2 BPSK	36	0		18.39		20.0	0.0	
15	PI/2 BPSK	36	22		18.52		20.0	0.0	
15	PI/2 BPSK	36	43		18.44		20.0	0.0	
15	PI/2 BPSK	75	0		18.57				
15	QPSK	1	1		18.50				
15	QPSK	1	40		18.53		20.0	0.0	
15	QPSK	1	77		18.54				
15	QPSK	36	0		18.38		20.0	0.0	
15	QPSK	36	22		18.57		20.0	0.0	
15	QPSK	36	43		18.35		20.0	0.0	
15	QPSK	75	0		18.43		20.0	0.0	
15	16QAM	1	1		18.29		20.0	0.0	
15	64QAM	1	1		18.36		20.0	0.0	
15	256QAM	1	1		18.16		19.5	0.5	
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1		18.23	18.52	18.39	20.0	0.0
Channel				339500	345000	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1		18.27	18.43	18.41	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				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	23.07	23.21	23.12		
20	PI2 BPSK	1	53	23.03	23.15	23.01	24.0	0.0
20	PI2 BPSK	1	104	23.02	23.10	22.95		
20	PI2 BPSK	50	0	22.67	22.73	22.84	23.5	0.5
20	PI2 BPSK	50	28	23.01	23.11	23.04	24.0	0.0
20	PI2 BPSK	50	56	22.52	22.62	22.57		
20	PI2 BPSK	100	0	22.70	22.77	22.82	23.5	0.5
20	QPSK	1	1	23.13	23.24	23.18		
20	QPSK	1	53	23.10	23.21	23.15	24.0	0.0
20	QPSK	1	104	23.00	23.13	23.06		
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0
20	QPSK	50	28	23.08	23.18	23.06	24.0	0.0
20	QPSK	50	56	21.97	22.11	21.97		
20	QPSK	100	0	22.10	22.23	22.17	23.0	1.0
20	16QAM	1	1	22.37	22.47	22.39	23.0	1.0
20	16QAM	1	1	20.46	20.60	20.54	21.5	2.5
20	256QAM	1	1	18.87	18.99	18.94	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.89	23.10	23.04	24.0	0.0
Channel				133600	135100	136600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.99	23.11	23.05	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				503000	507000	510000			
Frequency (MHz)				2530	2535	2550			
40	PI/2 BPSK	1	1	18.74	18.82	18.78			
40	PI/2 BPSK	1	108	18.68	18.80	18.49	19.5	0.0	
40	PI/2 BPSK	1	214	18.80	18.67	18.66			
40	PI/2 BPSK	108	0	18.82	18.80	18.68	19.5	0.0	
40	PI/2 BPSK	108	54	18.68	18.78	18.66	19.5	0.0	
40	PI/2 BPSK	108	108	18.68	18.70	18.69	19.5	0.0	
40	PI/2 BPSK	216	0	18.66	18.88	18.70			
40	QPSK	1	1	18.70	18.83	18.69			
40	QPSK	1	108	18.58	18.77	18.75	19.5	0.0	
40	QPSK	1	214	18.63	18.84	18.70			
40	QPSK	108	0	18.71	18.78	18.72	19.5	0.0	
40	QPSK	108	54	18.55	18.62	18.66	19.5	0.0	
40	QPSK	108	108	18.75	18.67	18.79	19.5	0.0	
40	QPSK	216	0	18.58	18.80	18.75			
40	16QAM	1	1	18.58	18.67	18.54	19.5	0.0	
40	16QAM	1	1	18.58	18.78	18.55	19.5	0.0	
40	256QAM	1	1	18.79	18.42	18.57	19.5	0.0	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.64	18.88	18.61	19.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2527.5			
25	QPSK	1	1	18.52	18.85	18.63	19.5	0.0	
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	18.88	18.89	18.62	19.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2542.5			
15	QPSK	1	1	18.68	18.75	18.65	19.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.57	18.79	18.52	19.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2587.5			
5	QPSK	1	1	18.68	18.78	18.59	19.5	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				481500	482500	483500			
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		20.31				
10	PI/2 BPSK	1	26		20.20		21.0	0.0	
10	PI/2 BPSK	1	50		20.19				
10	PI/2 BPSK	25	0		20.28		21.0	0.0	
10	PI/2 BPSK	25	14		20.33		21.0	0.0	
10	PI/2 BPSK	25	27		20.27				
10	PI/2 BPSK	50	0		20.33				
10	QPSK	1	1		20.41				
10	QPSK	1	26		20.29		21.0	0.0	
10	QPSK	1	50		20.29				
10	QPSK	25	0		20.19		21.0	0.0	
10	QPSK	25	14		20.38		21.0	0.0	
10	QPSK	25	27		20.22				
10	QPSK	50	0		20.27		21.0	0.0	
10	16QAM	1	1		20.14		21.0	0.0	
10	16QAM	1	1		20.19		21.0	0.0	
10	256QAM	1	1		18.74		19.5	1.5	
Channel				481500	482500	483500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	20.15	20.31	20.07	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	17.80	17.84	17.87		
100	PI2 BPSK	1	137	17.74	17.81	17.73		0.0
100	PI2 BPSK	1	271	17.68	17.76	17.76		19.0
100	PI2 BPSK	135	0	17.89	17.86	17.81		19.0
100	PI2 BPSK	135	69	17.76	17.82	17.82		19.0
100	PI2 BPSK	135	138	17.73	17.77	17.80		19.0
100	PI2 BPSK	270	0	17.77	17.87	17.82		19.0
100	QPSK	1	1	17.85	17.89	17.84		19.0
100	QPSK	1	137	17.76	17.81	17.86		19.0
100	QPSK	1	271	17.74	17.86	17.74		19.0
100	QPSK	135	0	17.79	17.77	17.79		19.0
100	QPSK	135	69	17.87	17.86	17.89		19.0
100	QPSK	135	138	17.81	17.81	17.78		19.0
100	QPSK	270	0	17.75	17.85	17.82		19.0
100	16QAM	1	1	17.67	17.75	17.65		19.0
100	64QAM	1	1	17.82	17.85	17.61		19.0
100	256QAM	1	1	17.73	17.89	17.68		19.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.69	17.80	17.71		19.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	2536.02	2592.99	2649.99		19.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	2531.01	2592.99	2655		19.0
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	17.76	17.81	17.76		19.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	2521.02	2592.99	2664.99		19.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.82	17.84	17.73		19.0
Channel								
Frequency (MHz)				502200	518598	534996		
30	QPSK	1	1	2511	2592.99	2674.98		19.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	17.79	17.77	17.72		19.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.86	20.93	21.00		
100	PI2 BPSK	1	137	20.89	20.96	20.75	22.0	0.0
100	PI2 BPSK	1	271	20.76	20.84	20.85		19.0
100	PI2 BPSK	135	0	20.82	21.01	20.92		22.0
100	PI2 BPSK	135	69	20.79	20.96	20.86		22.0
100	PI2 BPSK	135	138	20.77	20.81	20.89		22.0
100	PI2 BPSK	270	0	20.80	21.01	20.90		22.0
100	QPSK	1	1	21.02	21.03	20.96		22.0
100	QPSK	1	137	20.93	20.83	21.02		22.0
100	QPSK	1	271	20.86	21.00	20.79		22.0
100	QPSK	135	0	20.87	20.86	20.82		22.0
100	QPSK	135	69	20.73	20.92	20.75		22.0
100	QPSK	135	138	20.76	20.84	20.80		22.0
100	QPSK	270	0	20.82	20.86	20.82		22.0
100	16QAM	1	1	20.71	20.89	20.82		22.0
100	64QAM	1	1	20.80	20.98	20.64		22.0
100	256QAM	1	1	20.76	20.81	20.95		22.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.95	20.91	20.80		22.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	2536.02	2592.99	2649.99		22.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	2531.01	2592.99	2655		22.0
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	20.89	20.94	20.88		22.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	20.97	20.89	20.82		22.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.86	20.95	20.92		22.0
Channel								
Frequency (MHz)				502200	518598	534996		
30	QPSK	1	1	20.97	20.85	20.70		22.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	20.86	20.99	20.90		22.0

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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	14.36	14.46	14.38		
100	PI2 BPSK	1	137	14.22	14.35	14.22		16.0
100	PI2 BPSK	1	271	14.17	14.21	14.21		16.0
100	PI2 BPSK	135	0	14.15	14.36	14.37		16.0
100	PI2 BPSK	135	69	14.30	14.34	14.26		16.0
100	PI2 BPSK	135	138	14.15	14.37	14.21		16.0
100	PI2 BPSK	270	0	14.28	14.37	14.33		16.0
100	QPSK	1	1	14.31	14.53	14.27		16.0
100	QPSK	1	137	14.30	14.43	14.32		16.0
100	QPSK	1	271	14.28	14.43	14.38		16.0
100	QPSK	135	0	14.36	14.36	14.28		16.0
100	QPSK	135	69	14.19	14.45	14.24		16.0
100	QPSK	135	138	14.23	14.30	14.17		16.0
100	QPSK	270	0	14.24	14.34	14.30		16.0
100	16QAM	1	1	14.08	14.14	14.06		16.0
100	64QAM	1	1	14.13	14.32	14.15		16.0
100	256QAM	1	1	14.40	14.08	14.30		16.0
Channel								
Frequency (MHz)				649334	656000	662334		
90	QPSK	1	1	14.15	14.38	14.10		16.0
Channel								
Frequency (MHz)				649334	656000	662998		
80	QPSK	1	1	3740.01	3840	3940.02		16.0
Channel								
Frequency (MHz)				649334	656000	663000		
70	QPSK	1	1	14.28	14.43	14.25		16.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	14.23	14.48	14.29		16.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		16.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.22	14.43	14.17		16.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	3712.02	3840	3925.01		16.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	14.24	14.51	14.24		16.0



Part270 n77 PC2 Ant 1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	17.30	17.46	17.31		
100	Pi/2 BPSK	1	137	17.15	17.29	17.22	19.0	0.0
100	Pi/2 BPSK	1	271	17.15	17.15	17.17		
100	Pi/2 BPSK	135	0	17.18	17.34	17.40	19.0	0.0
100	Pi/2 BPSK	135	69	17.36	17.38	17.31	19.0	0.0
100	Pi/2 BPSK	135	138	17.20	17.34	17.13	19.0	0.0
100	Pi/2 BPSK	270	0	17.24	17.35	17.40		
100	QPSK	1	1	17.31	17.54	17.25		
100	QPSK	1	137	17.25	17.34	17.28	19.0	0.0
100	QPSK	1	271	17.20	17.37	17.37		
100	QPSK	135	0	17.32	17.37	17.32	19.0	0.0
100	QPSK	135	69	17.16	17.41	17.18	19.0	0.0
100	QPSK	135	138	17.24	17.28	17.21	19.0	0.0
100	QPSK	270	0	17.28	17.35	17.28		
100	16QAM	1	1	17.02	17.14	17.15	19.0	0.0
100	16QAM	1	1	17.10	17.29	17.20	19.0	0.0
100	256QAM	1	1	17.37	17.16	17.26	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.27	17.51	17.19	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.23	17.52	17.19	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.29	17.46	17.17	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.14	17.50	17.08	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.33	17.42	17.14	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.33	17.51	17.13	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.23	17.52	17.28	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.29	17.50	17.22	19.0	0.0

Part27Q n77 Ant 1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	15.22	15.32	15.22		
100	Pi/2 BPSK	1	137	15.38	15.38	15.38	16.0	0.0
100	Pi/2 BPSK	1	271	15.33	15.33	15.33		
100	Pi/2 BPSK	135	0	15.41	15.41	15.41	16.0	0.0
100	Pi/2 BPSK	135	69	15.42	15.42	15.42	16.0	0.0
100	Pi/2 BPSK	135	138	15.34	15.34	15.34	16.0	0.0
100	Pi/2 BPSK	270	0	15.39	15.39	15.39		
100	QPSK	1	1	15.57	15.57	15.57		
100	QPSK	1	137	15.37	15.37	15.37	16.0	0.0
100	QPSK	1	271	15.44	15.44	15.44		
100	QPSK	135	0	15.37	15.37	15.37	16.0	0.0
100	QPSK	135	69	15.54	15.54	15.54	16.0	0.0
100	QPSK	135	138	15.40	15.40	15.40	16.0	0.0
100	QPSK	270	0	15.45	15.45	15.45		
100	16QAM	1	1	15.20	15.20	15.20	16.0	0.0
100	16QAM	1	1	15.27	15.27	15.27	16.0	0.0
100	256QAM	1	1	15.14	15.14	15.14	16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.20	15.43	15.28	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.19	15.47	15.24	16.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.20	15.50	15.38	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.10	15.51	15.28	16.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.22	15.49	15.37	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.12	15.44	15.35	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.23	15.49	15.35	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.20	15.50	15.35	16.0	0.0

Part27Q n77 PC2 Ant 1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	18.46	18.46	18.46		
100	Pi/2 BPSK	1	137	18.34	18.34	18.34	19.0	0.0
100	Pi/2 BPSK	1	271	18.26	18.26	18.26		
100	Pi/2 BPSK	135	0	18.44	18.44	18.44	19.0	0.0
100	Pi/2 BPSK	135	69	18.37	18.37	18.37	19.0	0.0
100	Pi/2 BPSK	135	138	18.30	18.30	18.30	19.0	0.0
100	Pi/2 BPSK	270	0	18.43	18.43	18.43		
100	QPSK	1	1	18.50	18.50	18.50		
100	QPSK	1	137	18.34	18.34	18.34	19.0	0.0
100	QPSK	1	271	18.39	18.39	18.39		
100	QPSK	135	0	18.38	18.38	18.38	19.0	0.0
100	QPSK	135	69	18.47	18.47	18.47	19.0	0.0
100	QPSK	135	138	18.36	18.36	18.36	19.0	0.0
100	QPSK	270	0	18.42	18.42	18.42		
100	16QAM	1	1	18.25	18.25	18.25	19.0	0.0
100	16QAM	1	1	18.28	18.28	18.28	19.0	0.0
100	256QAM	1	1	18.12	18.12	18.12	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.26	18.46	18.23	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.13	18.39	18.25	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.18	18.44	18.29	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.22	18.38	18.21	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.19	18.44	18.23	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.15	18.36	18.21	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.25	18.45	18.22	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.27	18.40	18.33	19.0	0.0



Part27O n78 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	14.39	14.39	14.39	16.0	0.0
100	PI2 BPSK	1	137	14.43	14.43	14.43	16.0	0.0
100	PI2 BPSK	1	271	14.30	14.30	14.30	16.0	0.0
100	PI2 BPSK	135	0	14.42	14.42	14.42	16.0	0.0
100	PI2 BPSK	135	69	14.36	14.36	14.36	16.0	0.0
100	PI2 BPSK	135	138	14.43	14.43	14.43	16.0	0.0
100	PI2 BPSK	270	0	14.49	14.49	14.49	16.0	0.0
100	QPSK	1	1	14.55	14.55	14.55	16.0	0.0
100	QPSK	1	137	14.42	14.42	14.42	16.0	0.0
100	QPSK	1	271	14.50	14.50	14.50	16.0	0.0
100	QPSK	135	0	14.41	14.41	14.41	16.0	0.0
100	QPSK	135	69	14.45	14.45	14.45	16.0	0.0
100	QPSK	135	138	14.31	14.31	14.31	16.0	0.0
100	QPSK	270	0	14.34	14.34	14.34	16.0	0.0
100	16QAM	1	1	14.34	14.34	14.34	16.0	0.0
100	64QAM	1	1	14.33	14.33	14.33	16.0	0.0
100	256QAM	1	1	14.14	14.14	14.14	16.0	0.0
Channel				648668	650000	650334	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.35	14.38	14.30	16.0	0.0
Channel				649334	650000	650668	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.25	14.42	14.10	16.0	0.0
Channel				649000	650000	651000	Tune-up limit (dB)	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.28	14.51	14.31	16.0	0.0
Channel				648668	650000	651334	Tune-up limit (dB)	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.25	14.45	14.20	16.0	0.0
Channel				648334	650000	651668	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.31	14.52	14.34	16.0	0.0
Channel				648000	650000	652000	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.35	14.51	14.32	16.0	0.0
Channel				647668	650000	652334	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.28	14.43	14.23	16.0	0.0
Channel				647334	650000	652668	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.40	14.47	14.25	16.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	17.43	17.43	17.43	19.0	0.0
100	PI2 BPSK	1	137	17.44	17.44	17.44	19.0	0.0
100	PI2 BPSK	1	271	17.29	17.29	17.29	19.0	0.0
100	PI2 BPSK	135	0	17.37	17.37	17.37	19.0	0.0
100	PI2 BPSK	135	69	17.36	17.36	17.36	19.0	0.0
100	PI2 BPSK	135	138	17.37	17.37	17.37	19.0	0.0
100	PI2 BPSK	270	0	17.47	17.47	17.47	19.0	0.0
100	QPSK	1	1	17.55	17.55	17.55	19.0	0.0
100	QPSK	1	137	17.35	17.35	17.35	19.0	0.0
100	QPSK	1	271	17.44	17.44	17.44	19.0	0.0
100	QPSK	135	0	17.44	17.44	17.44	19.0	0.0
100	QPSK	135	69	17.52	17.52	17.52	19.0	0.0
100	QPSK	135	138	17.36	17.36	17.36	19.0	0.0
100	QPSK	270	0	17.40	17.40	17.40	19.0	0.0
100	16QAM	1	1	17.32	17.32	17.32	19.0	0.0
100	64QAM	1	1	17.33	17.33	17.33	19.0	0.0
100	256QAM	1	1	17.11	17.11	17.11	19.0	0.0
Channel				648668	650000	650334	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.42	17.36	17.32	19.0	0.0
Channel				649334	650000	650668	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.24	17.31	17.26	19.0	0.0
Channel				649000	650000	651000	Tune-up limit (dB)	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.34	17.43	17.35	19.0	0.0
Channel				648668	650000	651334	Tune-up limit (dB)	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.35	17.32	17.32	19.0	0.0
Channel				648334	650000	651668	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.35	17.33	17.23	19.0	0.0
Channel				648000	650000	652000	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.29	17.30	17.34	19.0	0.0
Channel				647668	650000	652334	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.25	17.22	17.25	19.0	0.0
Channel				647334	650000	652668	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.38	17.36	17.24	19.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI2 BPSK	1	1	15.38	15.38	15.38	16.0	0.0
100	PI2 BPSK	1	137	15.44	15.44	15.44	16.0	0.0
100	PI2 BPSK	1	271	15.38	15.38	15.38	16.0	0.0
100	PI2 BPSK	135	0	15.44	15.44	15.44	16.0	0.0
100	PI2 BPSK	135	69	15.32	15.32	15.32	16.0	0.0
100	PI2 BPSK	135	138	15.37	15.37	15.37	16.0	0.0
100	PI2 BPSK	270	0	15.37	15.37	15.37	16.0	0.0
100	QPSK	1	1	15.54	15.54	15.54	16.0	0.0
100	QPSK	1	137	15.39	15.39	15.39	16.0	0.0
100	QPSK	1	271	15.42	15.42	15.42	16.0	0.0
100	QPSK	135	0	15.31	15.31	15.31	16.0	0.0
100	QPSK	135	69	15.41	15.41	15.41	16.0	0.0
100	QPSK	135	138	15.36	15.36	15.36	16.0	0.0
100	QPSK	270	0	15.38	15.38	15.38	16.0	0.0
100	16QAM	1	1	15.27	15.27	15.27	16.0	0.0
100	64QAM	1	1	15.28	15.28	15.28	16.0	0.0
100	256QAM	1	1	15.03	15.03	15.03	16.0	0.0
Channel				633000	633334	633668	Tune-up limit (dB)	MPR
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.19	15.49	15.16	16.0	0.0
Channel				632668	633334	634000	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.22	15.52	15.20	16.0	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.24	15.44	15.16	16.0	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.24	15.43	15.22	16.0	0.0
Channel				631668	633334	635000	Tune-up limit (dB)	MPR
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.30	15.44	15.15	16.0	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.27	15.44	15.11	16.0	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.30	15.45	15.12	16.0	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.28	15.49	15.14	16.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel			633334				
	Frequency (MHz)			3500.01				
100	PI/2 BPSK	1	1		18.63			
100	PI/2 BPSK	1	137		18.63		19.0	0.0
100	PI/2 BPSK	1	271		18.62		19.0	0.0
100	PI/2 BPSK	135	0		18.84		19.0	0.0
100	PI/2 BPSK	135	69		18.46		19.0	0.0
100	PI/2 BPSK	135	138		18.59		19.0	0.0
100	PI/2 BPSK	270	0		18.64			
100	QPSK	1	1		18.74			
100	QPSK	1	137		18.80		19.0	0.0
100	QPSK	1	271		18.63			
100	QPSK	135	0		18.44		19.0	0.0
100	QPSK	135	69		18.63		19.0	0.0
100	QPSK	135	138		18.61		19.0	0.0
100	QPSK	270	0		18.57		19.0	0.0
100	16QAM	1	1		18.48		19.0	0.0
100	16QAM	1	1		18.43		19.0	0.0
100	256QAM	1	1		18.18		19.0	0.0
	Channel			633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3485	3500.01	3505.02		
90	QPSK	1	1	18.19	18.51	18.23	19.0	0.0
	Channel			632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3490.02	3500.01	3510		
80	QPSK	1	1	18.24	18.57	18.19	19.0	0.0
	Channel			632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3485.01	3500.01	3515.01		
70	QPSK	1	1	18.25	18.57	18.16	19.0	0.0
	Channel			632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3480	3500.01	3520.02		
60	QPSK	1	1	18.31	18.50	18.25	19.0	0.0
	Channel			631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3475.02	3500.01	3525		
50	QPSK	1	1	18.29	18.57	18.25	19.0	0.0
	Channel			631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3470.01	3500.01	3530.01		
40	QPSK	1	1	18.30	18.50	18.25	19.0	0.0
	Channel			631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3465	3500.01	3535.02		
30	QPSK	1	1	18.29	18.49	18.23	19.0	0.0
	Channel			630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
	Frequency (MHz)			3460.02	3500.01	3540		
20	QPSK	1	1	18.29	18.53	18.18	19.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
520200								
Frequency (MHz)								
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	137	18.64	18.79	18.54	19.5	0.0
100	PI2 BPSK	1	271	18.49	18.61	18.55	19.5	0.0
100	PI2 BPSK	135	69	18.66	18.69	18.70	19.5	0.0
100	PI2 BPSK	135	69	18.74	18.82	18.58	19.5	0.0
100	PI2 BPSK	135	138	18.64	18.82	18.65	19.5	0.0
100	PI2 BPSK	270	0	18.59	18.83	18.72	19.5	0.0
100	QPSK	1	1	18.66	18.91	18.71	19.5	0.0
100	QPSK	1	137	18.63	18.82	18.70	19.5	0.0
100	QPSK	1	271	18.69	18.81	18.71	19.5	0.0
100	QPSK	135	0	18.79	18.65	18.70	19.5	0.0
100	QPSK	135	69	18.60	18.86	18.67	19.5	0.0
100	QPSK	135	138	18.52	18.67	18.59	19.5	0.0
100	QPSK	270	0	18.57	18.71	18.64	19.5	0.0
100	16QAM	1	1	18.59	18.56	18.42	19.5	0.0
100	64QAM	1	1	18.61	18.75	18.47	19.5	0.0
100	256QAM	1	1	18.43	18.49	18.32	19.5	0.0
Channel								
520200								
Frequency (MHz)								
90	QPSK	1	1	2541	2592.99	2644.98		
Channel								
507204								
Frequency (MHz)								
80	QPSK	1	1	18.61	18.79	18.57	19.5	0.0
Channel								
505202								
Frequency (MHz)								
70	QPSK	1	1	18.52	18.84	18.67	19.5	0.0
Channel								
505200								
Frequency (MHz)								
60	QPSK	1	1	18.92	18.80	18.59	19.5	0.0
Channel								
504204								
Frequency (MHz)								
50	QPSK	1	1	2521.02	2592.99	2664.99		
Channel								
502200								
Frequency (MHz)								
40	QPSK	1	1	18.55	18.84	18.54	19.5	0.0
Channel								
502200								
Frequency (MHz)								
30	QPSK	1	1	2511	2592.99	2674.98		
Channel								
501204								
Frequency (MHz)								
20	QPSK	1	1	18.64	18.87	18.68	19.5	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								
520200								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.75	21.93	21.88		
100	PI2 BPSK	1	137	21.68	21.75	21.53	22.5	0.0
100	PI2 BPSK	1	271	21.53	21.54	21.52	22.5	0.0
100	PI2 BPSK	135	0	21.63	21.68	21.70	22.5	0.0
100	PI2 BPSK	135	69	21.73	21.88	21.59	22.5	0.0
100	PI2 BPSK	135	138	21.67	21.86	21.71	22.5	0.0
100	PI2 BPSK	270	0	21.55	21.86	21.85	22.5	0.0
100	QPSK	1	1	21.69	21.97	21.74	22.5	0.0
100	QPSK	1	137	21.57	21.76	21.59	22.5	0.0
100	QPSK	1	271	21.66	21.81	21.70	22.5	0.0
100	QPSK	135	0	21.78	21.84	21.69	22.5	0.0
100	QPSK	135	69	21.65	21.85	21.69	22.5	0.0
100	QPSK	135	138	21.53	21.83	21.57	22.5	0.0
100	QPSK	270	0	21.60	21.86	21.62	22.5	0.0
100	16QAM	1	1	21.62	21.61	21.48	22.5	0.0
100	64QAM	1	1	21.53	21.76	21.48	22.5	0.0
100	256QAM	1	1	21.39	21.45	21.25	22.5	0.0
Channel								
520200								
Frequency (MHz)								
90	QPSK	1	1	21.64	21.92	21.63	22.5	0.0
Channel								
507204								
Frequency (MHz)								
80	QPSK	1	1	21.62	21.85	21.57	22.5	0.0
Channel								
505202								
Frequency (MHz)								
70	QPSK	1	1	21.55	21.83	21.57	22.5	0.0
Channel								
505200								
Frequency (MHz)								
60	QPSK	1	1	21.64	21.89	21.56	22.5	0.0
Channel								
504204								
Frequency (MHz)								
50	QPSK	1	1	21.52	21.86	21.57	22.5	0.0
Channel								
502202								
Frequency (MHz)								
40	QPSK	1	1	21.52	21.85	21.68	22.5	0.0
Channel								
502200								
Frequency (MHz)								
30	QPSK	1	1	2511	2592.99	2674.98		
Channel								
501204								
Frequency (MHz)								
20	QPSK	1	1	21.57	21.85	21.80	22.5	0.0

Part270 n77 Ant 2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
650000								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.05	14.23	14.16		
100	PI2 BPSK	1	137	13.96	14.10	13.87	14.5	0.0
100	PI2 BPSK	1	271	13.81	13.91	13.97	14.5	0.0
100	PI2 BPSK	135	0	14.02	14.04	14.05	14.5	0.0
100	PI2 BPSK	135	69	14.05	14.14	13.93	14.5	0.0
100	PI2 BPSK	135	138	14.01	14.23	14.01	14.5	0.0
100	PI2 BPSK	270	0	13.99	14.21	14.03	14.5	0.0
100	QPSK	1	1	14.23	14.32	14.15	14.5	0.0
100	QPSK	1	137	14.01	14.16	14.02	14.5	0.0
100	QPSK	1	271	14.03	14.22	14.02	14.5	0.0
100	QPSK	135	0	14.08	14.08	14.02	14.5	0.0
100	QPSK	135	69	13.94	14.20	13.99	14.5	0.0
100	QPSK	135	138	14.00	14.06	14.02	14.5	0.0
100	QPSK	270	0	13.97	14.10	13.94	14.5	0.0
100	16QAM	1	1	13.96	13.95	13.75	14.5	0.0
100	64QAM	1	1	14.01	14.05	13.79	14.5	0.0
100	256QAM	1	1	13.72	13.88	13.62	14.5	0.0
Channel								
650000								
Frequency (MHz)								
90	QPSK	1	1	14.13	14.16	14.03	14.5	0.0
Channel								
649334								
Frequency (MHz)								
80	QPSK	1	1	14.20	14.23	14.10	14.5	0.0
Channel								
649000								
Frequency (MHz)								
70	QPSK	1	1	14.20	14.18	14.05	14.5	0.0
Channel								
648668								
Frequency (MHz)								
60	QPSK	1	1	14.07	14.20	14.06	14.5	0.0
Channel								
648334								
Frequency (MHz)								
50	QPSK	1	1	14.18	14.29	14.09	14.5	0.0
Channel								
647002								
Frequency (MHz)								
40	QPSK	1	1	14.14	14.28	14.04	14.5	0.0
Channel								
647668								
Frequency (MHz)								
30	QPSK	1	1	14.20	14.15	14.00	14.5	0.0
Channel								
647334								
Frequency (MHz)								
20	QPSK	1	1	14.12	14.15	14.03	14.5	0.0



Part270 n77 PC2 Ant 2 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	16.92	17.19	17.13		
100	Pi/2 BPSK	1	137	16.98	17.09	16.74	17.5	0.0
100	Pi/2 BPSK	1	271	16.98	16.85	16.93		
100	Pi/2 BPSK	135	0	17.04	16.99	17.07	17.5	0.0
100	Pi/2 BPSK	135	69	17.04	17.04	16.83	17.5	0.0
100	Pi/2 BPSK	135	138	17.00	17.21	17.01	17.5	0.0
100	Pi/2 BPSK	270	0	16.93	17.23	16.91		
100	QPSK	1	1	17.21	17.24	17.11		
100	QPSK	1	137	16.97	17.12	16.98	17.5	0.0
100	QPSK	1	271	16.98	17.10	16.90		
100	QPSK	135	0	17.09	17.08	17.03	17.5	0.0
100	QPSK	135	69	16.88	17.12	16.92	17.5	0.0
100	QPSK	135	138	16.94	17.00	16.91	17.5	0.0
100	QPSK	270	0	16.94	17.04	16.94		
100	16QAM	1	1	16.98	16.88	16.76	17.5	0.0
100	64QAM	1	1	16.88	17.04	16.74	17.5	0.0
100	256QAM	1	1	16.71	16.85	16.62	17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.16	17.12	17.02	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.12	17.11	17.04	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.02	17.04	17.06	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.11	17.10	16.93	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.14	17.12	16.98	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.01	17.08	16.99	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.13	17.09	17.03	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.03	17.10	17.00	17.5	0.0

Part27Q n77 Ant 2 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1		14.42			
100	Pi/2 BPSK	1	137		14.26		14.5	0.0
100	Pi/2 BPSK	1	271		14.16			
100	Pi/2 BPSK	135	0		14.22		14.5	0.0
100	Pi/2 BPSK	135	69		14.38		14.5	0.0
100	Pi/2 BPSK	135	138		14.38		14.5	0.0
100	Pi/2 BPSK	270	0		14.40			
100	QPSK	1	1		14.46			
100	QPSK	1	137		14.38		14.5	0.0
100	QPSK	1	271		14.34			
100	QPSK	135	0		14.22		14.5	0.0
100	QPSK	135	69		14.32		14.5	0.0
100	QPSK	135	138		14.20		14.5	0.0
100	QPSK	270	0		14.28			
100	16QAM	1	1		14.01		14.5	0.0
100	64QAM	1	1		14.22		14.5	0.0
100	256QAM	1	1		13.95		14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.02	14.26	13.98	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.03	14.27	14.03	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.03	14.28	13.98	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.98	14.31	14.02	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.01	14.23	14.02	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.98	14.34	14.06	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.08	14.30	14.08	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.02	14.30	13.98	14.5	0.0

Part27Q n77 PC2 Ant 2 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1		17.31			
100	Pi/2 BPSK	1	137		17.27		17.5	0.0
100	Pi/2 BPSK	1	271		17.15			
100	Pi/2 BPSK	135	0		17.14		17.5	0.0
100	Pi/2 BPSK	135	69		17.30		17.5	0.0
100	Pi/2 BPSK	135	138		17.27		17.5	0.0
100	Pi/2 BPSK	270	0		17.33			
100	QPSK	1	1		17.36			
100	QPSK	1	137		17.28		17.5	0.0
100	QPSK	1	271		17.34			
100	QPSK	135	0		17.16		17.5	0.0
100	QPSK	135	69		17.27		17.5	0.0
100	QPSK	135	138		17.16		17.5	0.0
100	QPSK	270	0		17.23			
100	16QAM	1	1		16.99		17.5	0.0
100	64QAM	1	1		17.25		17.5	0.0
100	256QAM	1	1		16.97		17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.95	17.22	16.88	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.92	17.29	16.95	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.03	17.14	16.95	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.03	17.15	16.99	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.96	17.20	16.92	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.02	17.27	16.95	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.90	17.29	16.98	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.90	17.21	16.97	17.5	0.0



Part270 n78 Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	14.70	14.70	14.70			
100	PI2 BPSK	1	137	14.59	14.59	14.59	15.5	0.0	
100	PI2 BPSK	1	271	14.35	14.35	14.35			
100	PI2 BPSK	135	0	14.54	14.54	14.54	15.5	0.0	
100	PI2 BPSK	135	69	14.81	14.81	14.81	15.5	0.0	
100	PI2 BPSK	135	138	14.63	14.63	14.63	15.5	0.0	
100	PI2 BPSK	270	0	14.54	14.54	14.54			
100	QPSK	1	1	14.77	14.77	14.77			
100	QPSK	1	137	14.69	14.69	14.69	15.5	0.0	
100	QPSK	1	271	14.58	14.58	14.58			
100	QPSK	135	0	14.41	14.41	14.41	15.5	0.0	
100	QPSK	135	69	14.60	14.60	14.60	15.5	0.0	
100	QPSK	135	138	14.52	14.52	14.52			
100	QPSK	270	0	14.57	14.57	14.57	15.5	0.0	
100	16QAM	1	1	14.33	14.33	14.33	15.5	0.0	
100	64QAM	1	1	14.56	14.56	14.56	15.5	0.0	
100	256QAM	1	1	14.35	14.35	14.35	15.5	0.0	
Channel				649668	650300	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	14.37	14.52	14.40	15.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3750	3760.02			
80	QPSK	1	1	14.23	14.60	14.40	15.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	14.47	14.57	14.31	15.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	14.34	14.95	14.44	15.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	14.27	14.96	14.33	15.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.41	14.64	14.45	15.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	14.29	14.53	14.43	15.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	14.42	14.57	14.32	15.5	0.0	

Part270 n78 PC2 Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	17.70	17.70	17.70			
100	PI2 BPSK	1	137	17.62	17.62	17.62	18.5	0.0	
100	PI2 BPSK	1	271	17.38	17.38	17.38			
100	PI2 BPSK	135	0	17.53	17.53	17.53	18.5	0.0	
100	PI2 BPSK	135	69	17.58	17.58	17.58	18.5	0.0	
100	PI2 BPSK	135	138	17.59	17.59	17.59	18.5	0.0	
100	PI2 BPSK	270	0	17.51	17.51	17.51			
100	QPSK	1	1	17.76	17.76	17.76			
100	QPSK	1	137	17.56	17.56	17.56	18.5	0.0	
100	QPSK	1	271	17.57	17.57	17.57			
100	QPSK	135	0	17.38	17.38	17.38	18.5	0.0	
100	QPSK	135	69	17.64	17.64	17.64	18.5	0.0	
100	QPSK	135	138	17.50	17.50	17.50			
100	QPSK	270	0	17.59	17.59	17.59	18.5	0.0	
100	16QAM	1	1	17.27	17.27	17.27	18.5	0.0	
100	64QAM	1	1	17.59	17.59	17.59	18.5	0.0	
100	256QAM	1	1	17.35	17.35	17.35	18.5	0.0	
Channel				649668	650300	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.37	17.50	17.40	18.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3750	3760.02			
80	QPSK	1	1	17.26	17.54	17.49	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.34	17.58	17.43	18.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.38	17.60	17.41	18.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	17.24	17.60	17.47	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.40	17.59	17.38	18.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.41	17.59	17.44	18.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.45	17.49	17.35	18.5	0.0	

Part27Q n78 Ant 2 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01	3500.01	3500.01			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	14.51	14.51	14.51			
100	PI2 BPSK	1	137	14.55	14.55	14.55	15.5	0.0	
100	PI2 BPSK	1	271	14.23	14.23	14.23			
100	PI2 BPSK	135	0	14.32	14.32	14.32	15.5	0.0	
100	PI2 BPSK	135	69	14.45	14.45	14.45	15.5	0.0	
100	PI2 BPSK	135	138	14.54	14.54	14.54	15.5	0.0	
100	PI2 BPSK	270	0	14.57	14.57	14.57			
100	QPSK	1	1	14.46	14.46	14.46			
100	QPSK	1	137	14.59	14.59	14.59	15.5	0.0	
100	QPSK	1	271	14.57	14.57	14.57			
100	QPSK	135	0	14.28	14.28	14.28	15.5	0.0	
100	QPSK	135	69	14.63	14.63	14.63	15.5	0.0	
100	QPSK	135	138	14.32	14.32	14.32			
100	QPSK	270	0	14.58	14.58	14.58	15.5	0.0	
100	16QAM	1	1	14.21	14.21	14.21	15.5	0.0	
100	64QAM	1	1	14.48	14.48	14.48	15.5	0.0	
100	256QAM	1	1	14.22	14.22	14.22	15.5	0.0	
Channel				633090	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	14.23	14.57	14.33	15.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	14.21	14.54	14.32	15.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	14.20	14.48	14.30	15.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	14.28	14.49	14.24	15.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	14.25	14.49	14.34	15.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	14.23	14.51	14.37	15.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	14.29	14.49	14.32	15.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	14.26	14.63	14.29	15.5	0.0	



Part27Q n78 PC2 Ant 2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				633334						
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1		17.67					
100	PI2 BPSK	1	137		17.72		18.5	0.0		
100	PI2 BPSK	1	271		17.37					
100	PI2 BPSK	135	0		17.38		18.5	0.0		
100	PI2 BPSK	135	89		17.61		18.5	0.0		
100	PI2 BPSK	135	138		17.68		18.5	0.0		
100	PI2 BPSK	270	0		17.74					
100	QPSK	1	1		17.75					
100	QPSK	1	137		17.64		18.5	0.0		
100	QPSK	1	271		17.73					
100	QPSK	135	0		17.32		18.5	0.0		
100	QPSK	135	89		17.71		18.5	0.0		
100	QPSK	135	138		17.36					
100	QPSK	270	0		17.42		18.5	0.0		
100	16QAM	1	1		17.32		18.5	0.0		
100	64QAM	1	1		17.56		18.5	0.0		
100	256QAM	1	1		17.29		18.5	0.0		
Channel				633000			633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495			3500.01	3505.02		
90	QPSK	1	1	17.30	17.73	17.53	18.5	0.0		
Channel				632668			633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02			3500.01	3510		
80	QPSK	1	1	17.33	17.68	17.39	18.5	0.0		
Channel				632334			633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01			3500.01	3515.01		
70	QPSK	1	1	17.35	17.68	17.52	18.5	0.0		
Channel				632000			633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480			3500.01	3520.02		
60	QPSK	1	1	17.33	17.69	17.39	18.5	0.0		
Channel				631668			633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02			3500.01	3525		
50	QPSK	1	1	17.35	17.74	17.41	18.5	0.0		
Channel				631334			633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01			3500.01	3530.01		
40	QPSK	1	1	17.32	17.68	17.49	18.5	0.0		
Channel				631000			633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465			3500.01	3535.02		
30	QPSK	1	1	17.30	17.62	17.52	18.5	0.0		
Channel				630668			633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02			3500.01	3540		
20	QPSK	1	1	17.40	17.69	17.50	18.5	0.0		



n2 Ant 4 DSI3 sig path: 164

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	Pi/2 BPSK	1	1	15.56	15.57	15.59		
20	Pi/2 BPSK	1	53	15.40	15.50	15.44	17.0	0.0
20	Pi/2 BPSK	1	104	15.28	15.54	15.33		
20	Pi/2 BPSK	50	0	15.48	15.64	15.32	17.0	0.0
20	Pi/2 BPSK	50	28	15.45	15.60	15.45	17.0	0.0
20	Pi/2 BPSK	50	56	15.33	15.47	15.47	17.0	0.0
20	Pi/2 BPSK	100	0	15.39	15.62	15.48		
20	QPSK	1	1	15.43	15.69	15.61		
20	QPSK	1	53	15.35	15.49	15.59	17.0	0.0
20	QPSK	1	104	15.49	15.57	15.49		
20	QPSK	50	0	15.59	15.60	15.51	17.0	0.0
20	QPSK	50	28	15.37	15.61	15.45	17.0	0.0
20	QPSK	50	56	15.48	15.53	15.43		
20	QPSK	100	0	15.35	15.54	15.42	17.0	0.0
20	16QAM	1	1	15.28	15.34	15.28	17.0	0.0
20	16QAM	1	1	15.31	15.56	15.24	17.0	0.0
20	256QAM	1	1	15.50	15.25	15.43	17.0	0.0
Channel								
Frequency (MHz)				37050	37600	38050		
15	QPSK	1	1	15.39	15.54	15.56	17.0	0.0
Channel								
Frequency (MHz)				37100	37600	38100		
10	QPSK	1	1	15.27	15.60	15.59	17.0	0.0
Channel								
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	15.36	15.63	15.58	17.0	0.0

n2 Ant 4 DSI3 sig path: 429

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	Pi/2 BPSK	1	1	15.38	15.38	15.34		
20	Pi/2 BPSK	1	53	15.23	15.35	15.24	17.0	0.0
20	Pi/2 BPSK	1	104	15.11	15.30	15.20		
20	Pi/2 BPSK	50	0	15.28	15.41	15.34	17.0	0.0
20	Pi/2 BPSK	50	28	15.26	15.45	15.28	17.0	0.0
20	Pi/2 BPSK	50	56	15.12	15.25	15.29	17.0	0.0
20	Pi/2 BPSK	100	0	15.15	15.37	15.19		
20	QPSK	1	1	15.22	15.32	15.49		
20	QPSK	1	53	15.20	15.23	15.32	17.0	0.0
20	QPSK	1	104	15.28	15.35	15.35		
20	QPSK	50	0	15.40	15.34	15.24	17.0	0.0
20	QPSK	50	28	15.25	15.41	15.22	17.0	0.0
20	QPSK	50	56	15.22	15.38	15.24		
20	QPSK	100	0	15.28	15.40	15.19	17.0	0.0
20	16QAM	1	1	15.23	15.37	15.15	17.0	0.0
20	16QAM	1	1	15.33	15.38	15.34	17.0	0.0
20	256QAM	1	1	15.27	15.12	15.30	17.0	0.0
Channel								
Frequency (MHz)				37150	37600	38350		
15	QPSK	1	1	15.16	15.43	15.33	17.0	0.0
Channel								
Frequency (MHz)				37100	37600	38100		
10	QPSK	1	1	15.30	15.25	15.39	17.0	0.0
Channel								
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	15.17	15.43	15.42	17.0	0.0

n5 Ant 4 DSI3 sig path: 168

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16890	16790	16790		
20	Pi/2 BPSK	1	1	22.90	23.02	22.92		
20	Pi/2 BPSK	1	53	22.85	22.96	22.86	24.0	0.0
20	Pi/2 BPSK	1	104	22.76	22.88	22.73		
20	Pi/2 BPSK	50	0	22.44	22.52	22.39	23.5	0.5
20	Pi/2 BPSK	50	28	22.82	22.97	22.80	24.0	0.0
20	Pi/2 BPSK	50	56	22.45	22.55	22.42	23.5	0.5
20	Pi/2 BPSK	100	0	22.47	22.57	22.44		
20	QPSK	1	1	23.01	23.06	22.99		
20	QPSK	1	53	22.92	23.03	22.93	24.0	0.0
20	QPSK	1	104	22.75	22.86	22.77		
20	QPSK	50	0	21.91	22.05	21.99	23.0	1.0
20	QPSK	50	28	22.83	22.98	22.87	24.0	0.0
20	QPSK	50	56	21.87	22.01	21.89	23.0	1.0
20	QPSK	100	0	21.92	22.05	21.98		
20	16QAM	1	1	21.09	21.13	21.06	23.0	1.0
20	16QAM	1	1	20.51	20.56	20.51	21.5	2.5
20	256QAM	1	1	18.92	18.63	18.48	19.5	4.5
Channel								
Frequency (MHz)				16330	16790	16330		
15	QPSK	1	1	22.93	23.00	22.85	24.0	0.0
Channel								
Frequency (MHz)				16580	16790	16880		
10	QPSK	1	1	22.92	22.97	22.91	24.0	0.0
Channel								
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.88	22.91	22.82	24.0	0.0



n5 Ant 4 DSI3 sig path: 414

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.98	23.02	22.86		
20	PI2 BPSK	1	53	22.82	22.99	22.84	24.0	0.0
20	PI2 BPSK	1	104	22.92	23.04	22.87		
20	PI2 BPSK	50	0	22.55	22.61	22.56	23.5	0.5
20	PI2 BPSK	50	26	22.79	22.91	22.82	24.0	0.0
20	PI2 BPSK	50	56	22.56	22.56	22.38	23.5	0.5
20	PI2 BPSK	100	0	22.40	22.50	22.32		
20	QPSK	1	1	23.05	23.08	22.92		
20	QPSK	1	53	22.81	22.98	22.80	24.0	0.0
20	QPSK	1	104	23.00	23.01	22.88		
20	QPSK	50	0	22.10	22.12	22.04	23.0	1.0
20	QPSK	50	28	22.78	22.84	22.79	24.0	0.0
20	QPSK	50	56	21.86	21.97	21.82	23.0	1.0
20	QPSK	100	0	21.89	22.01	21.89		
20	16QAM	1	1	22.20	22.27	22.08	23.0	1.0
20	64QAM	1	1	20.32	20.46	20.45	21.5	2.5
20	256QAM	1	1	18.99	19.04	18.94	19.5	4.5
Channel								
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.01	22.89	22.80	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.89	23.00	22.87	24.0	0.0
Channel								
Frequency (MHz)				836.5	836.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.01	22.91	22.91	24.0	0.0

n12 Ant 4 DSI3 sig path: 172

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.16	23.22	23.11		
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0
15	PI2 BPSK	1	77	23.01	23.13	22.99		
15	PI2 BPSK	38	0	22.64	22.75	22.66	23.5	0.5
15	PI2 BPSK	38	22	23.11	23.17	23.07	24.0	0.0
15	PI2 BPSK	38	43	22.56	22.69	22.61	23.5	0.5
15	PI2 BPSK	75	0	22.85	22.77	22.67		
15	QPSK	1	1	23.19	23.23	23.15		
15	QPSK	1	40	23.07	23.16	23.09	24.0	0.0
15	QPSK	1	77	22.98	23.08	23.00		
15	QPSK	38	0	22.23	22.29	22.17	23.0	1.0
15	QPSK	38	22	23.07	23.15	23.00	24.0	0.0
15	QPSK	38	43	22.98	22.16	22.09	23.0	1.0
15	QPSK	75	0	22.15	22.23	22.11		
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0
15	64QAM	1	1	20.45	20.53	20.39	21.5	2.5
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0
Channel								
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0

n12 Ant 4 DSI3 sig path: 417

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.93	23.02	22.93		
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0
15	PI2 BPSK	1	77	22.91	22.95	22.89		
15	PI2 BPSK	38	0	22.49	22.83	22.44	23.5	0.5
15	PI2 BPSK	38	22	22.99	22.95	22.89	24.0	0.0
15	PI2 BPSK	38	43	22.42	22.55	22.42	23.5	0.5
15	PI2 BPSK	75	0	22.51	22.58	22.57		
15	QPSK	1	1	23.00	23.06	22.99		
15	QPSK	1	40	22.97	22.98	22.81	24.0	0.0
15	QPSK	1	77	22.86	23.02	22.88		
15	QPSK	38	0	22.05	22.11	22.05	23.0	1.0
15	QPSK	38	22	22.75	22.89	22.78	24.0	0.0
15	QPSK	38	43	21.84	22.01	21.80	23.0	1.0
15	QPSK	75	0	21.87	22.05	21.82		
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0
15	64QAM	1	1	20.32	20.48	20.32	21.5	2.5
15	256QAM	1	1	18.94	19.09	19.07	19.5	4.5
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0
Channel								
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.84	22.99	22.84	24.0	0.0



n14 Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				18950				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	22.60				
10	PI2 BPSK	1	26	22.56			24.0	0.0
10	PI2 BPSK	1	50	22.51				
10	PI2 BPSK	25	0	22.19			23.5	0.5
10	PI2 BPSK	25	14	22.61			24.0	0.0
10	PI2 BPSK	25	27	22.17			23.5	0.5
10	PI2 BPSK	50	0	22.22				
10	QPSK	1	1	22.63			24.0	0.0
10	QPSK	1	26	22.58				
10	QPSK	1	50	22.49				
10	QPSK	25	0	21.76			23.0	1.0
10	QPSK	25	14	22.45			24.0	0.0
10	QPSK	25	27	21.66			23.0	1.0
10	QPSK	50	0	21.71				
10	16QAM	1	1	21.80			23.0	1.0
10	16QAM	1	1	19.91			21.5	2.5
10	256QAM	1	1	18.23			19.5	4.5
Channel				159100	159100			
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.48	22.52	22.41	24.0	0.0

n25 Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				374500	376500	379500		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	16.10	16.20	16.24		
40	PI2 BPSK	1	108	16.13	16.22	16.11	17.0	0.0
40	PI2 BPSK	1	214	16.10	16.14	16.04		
40	PI2 BPSK	108	0	16.06	16.11	16.11	17.0	0.0
40	PI2 BPSK	108	54	16.06	16.22	16.06	17.0	0.0
40	PI2 BPSK	108	108	16.02	16.08	16.02	17.0	0.0
40	PI2 BPSK	216	0	16.05	16.25	16.06		
40	QPSK	1	1	16.26	16.31	16.12		
40	QPSK	1	108	16.10	16.20	16.09	17.0	0.0
40	QPSK	1	214	16.10	16.16	16.10		
40	QPSK	108	0	16.20	16.08	16.12	17.0	0.0
40	QPSK	108	54	16.10	16.26	16.05	17.0	0.0
40	QPSK	108	108	16.06	16.10	16.06	17.0	0.0
40	QPSK	216	0	16.01	16.14	16.11		
40	16QAM	1	1	16.11	16.05	16.11	17.0	0.0
40	16QAM	1	1	16.01	16.05	16.13	17.0	0.0
40	256QAM	1	1	16.16	16.05	16.03	17.0	0.0
Channel				372000	376500	380500		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	16.17	16.16	16.02	17.0	0.0
Channel				372500	376500	380500		
Frequency (MHz)				1892.5	1892.5	1902.5		
25	QPSK	1	1	16.23	16.15	16.11	17.0	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	16.21	16.19	16.10	17.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1827.5	1882.5	1917.5		
15	QPSK	1	1	16.15	16.13	16.01	17.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	16.23	16.25	16.03	17.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	16.15	16.24	16.02	17.0	0.0

n26 Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				163500	163300	163700		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.91	23.01	22.93		
20	PI2 BPSK	1	53	22.87	22.97	22.86	24.0	0.0
20	PI2 BPSK	1	104	22.81	22.98	22.74		
20	PI2 BPSK	50	0	22.48	22.82	22.50	23.5	0.5
20	PI2 BPSK	50	26	22.96	23.04	22.99	24.0	0.0
20	PI2 BPSK	50	56	22.47	22.54	22.42	23.5	0.5
20	PI2 BPSK	100	0	22.48	22.62	22.57		
20	QPSK	1	1	22.98	23.08	23.01		
20	QPSK	1	53	22.96	23.03	22.89	24.0	0.0
20	QPSK	1	104	22.77	22.89	22.83		
20	QPSK	50	0	21.94	22.07	21.98	23.0	1.0
20	QPSK	50	26	22.89	23.03	22.94	24.0	0.0
20	QPSK	50	56	21.95	22.05	21.94	23.0	1.0
20	QPSK	100	0	22.04	22.14	22.05		
20	16QAM	1	1	22.11	22.19	22.13	23.0	1.0
20	16QAM	1	1	20.05	20.19	20.13	21.5	2.5
20	256QAM	1	1	18.81	18.96	18.82	19.5	4.5
Channel				163300	163300	163300		
Frequency (MHz)				831.5	831.5	841.5		
15	QPSK	1	1	22.84	22.97	22.91	24.0	0.0
Channel				163800	163300	168800		
Frequency (MHz)				819	831.5	841		
10	QPSK	1	1	22.86	23.01	22.85	24.0	0.0
Channel				163300	163300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.90	22.95	22.88	24.0	0.0



n66 Ant 4 DSI3 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	17.34	17.43	17.38			
40	PI2 BPSK	1	108	17.32	17.34	17.10	18.5	0.0	
40	PI2 BPSK	1	214	17.09	17.35	17.13			
40	PI2 BPSK	108	0	17.15	17.28	17.30	18.5	0.0	
40	PI2 BPSK	108	54	17.28	17.40	17.21	18.5	0.0	
40	PI2 BPSK	108	108	17.25	17.37	17.25	18.5	0.0	
40	PI2 BPSK	216	0	17.23	17.40	17.19			
40	QPSK	1	1	17.24	17.46	17.35			
40	QPSK	1	108	17.27	17.30	17.42	18.5	0.0	
40	QPSK	1	214	17.28	17.45	17.37			
40	QPSK	108	0	17.26	17.36	17.38	18.5	0.0	
40	QPSK	108	54	17.08	17.46	17.16	18.5	0.0	
40	QPSK	108	108	17.26	17.28	17.35	18.5	0.0	
40	QPSK	216	0	17.19	17.30	17.26			
40	16QAM	1	1	17.11	17.17	17.04	18.5	0.0	
40	16QAM	1	1	17.08	17.26	17.10	18.5	0.0	
40	256QAM	1	1	17.41	17.07	17.23	18.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.17	17.33	17.27	18.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.10	17.25	17.22	18.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.20	17.41	17.20	18.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.10	17.44	17.27	18.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.15	17.37	17.28	18.5	0.0	

n66 Ant 4 DSI3 sig path: 432									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	17.25	17.28	17.26			
40	PI2 BPSK	1	108	17.20	17.14	16.97	18.5	0.0	
40	PI2 BPSK	1	214	16.99	17.17	16.94			
40	PI2 BPSK	108	0	17.06	17.13	17.21	18.5	0.0	
40	PI2 BPSK	108	54	17.18	17.25	17.05	18.5	0.0	
40	PI2 BPSK	108	108	17.14	17.24	17.07	18.5	0.0	
40	PI2 BPSK	216	0	17.13	17.28	17.10			
40	QPSK	1	1	17.11	17.40	17.22			
40	QPSK	1	108	17.08	17.09	17.31	18.5	0.0	
40	QPSK	1	214	17.12	17.26	17.25			
40	QPSK	108	0	17.06	17.17	17.25	18.5	0.0	
40	QPSK	108	54	17.01	17.34	17.11	18.5	0.0	
40	QPSK	108	108	17.15	17.09	17.17	18.5	0.0	
40	QPSK	216	0	17.12	17.23	17.16			
40	16QAM	1	1	17.00	17.06	16.85	18.5	0.0	
40	16QAM	1	1	16.97	17.18	16.92	18.5	0.0	
40	256QAM	1	1	17.35	16.95	17.07	18.5	0.0	
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.99	17.27	17.10	18.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.99	17.26	17.11	18.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.08	17.24	17.09	18.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.03	17.32	17.12	18.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.08	17.29	17.16	18.5	0.0	

n70 Ant 4 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	349500			
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1			16.58			
15	PI2 BPSK	1	40			16.40	19.5	0.0	
15	PI2 BPSK	1	77			16.35			
15	PI2 BPSK	36	0			16.44	19.5	0.0	
15	PI2 BPSK	36	22			16.49	19.5	0.0	
15	PI2 BPSK	36	43			16.44	19.5	0.0	
15	PI2 BPSK	75	0			16.47			
15	QPSK	1	1			16.61			
15	QPSK	1	40			16.54	19.5	0.0	
15	QPSK	1	77			16.44			
15	QPSK	36	0			16.48	19.5	0.0	
15	QPSK	36	22			16.51	19.5	0.0	
15	QPSK	36	43			16.47	19.5	0.0	
15	QPSK	75	0			16.45			
15	16QAM	1	1			16.34	19.5	0.0	
15	16QAM	1	1			16.42	19.5	0.0	
15	16QAM	1	1			16.19	18.5	1.0	
Channel				345000	349500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	16.33	16.46	16.29	19.5	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	16.29	16.55	16.37	19.5	0.0	



n71 Ant 4 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				13600	13600	13600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.87	22.88	22.92		
20	PI/2 BPSK	1	53	22.78	22.91	22.83	24.0	0.0
20	PI/2 BPSK	1	104	22.68	22.76	22.83		
20	PI/2 BPSK	50	0	22.48	22.57	22.46	23.5	0.5
20	PI/2 BPSK	50	28	22.86	22.95	22.89	24.0	0.0
20	PI/2 BPSK	50	56	22.34	22.45	22.39	23.5	0.5
20	PI/2 BPSK	100	0	22.42	22.57	22.47		
20	QPSK	1	1	22.91	23.05	22.97		
20	QPSK	1	53	22.80	22.92	22.86	24.0	0.0
20	QPSK	1	104	22.68	22.76	22.70		
20	QPSK	50	0	21.86	21.98	21.81	23.0	1.0
20	QPSK	50	28	22.92	22.67	22.90	24.0	0.0
20	QPSK	50	56	21.85	21.85	21.86	23.0	1.0
20	QPSK	100	0	22.00	22.07	22.01		
20	16QAM	1	1	22.31	22.37	22.23	23.0	1.0
20	16QAM	1	1	20.18	20.30	20.25	21.5	2.5
20	256QAM	1	1	18.66	18.73	18.65	19.5	4.5
Channel				13410	13410	13410		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.83	22.84	22.92	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				665	680.5	693		
10	QPSK	1	1	22.80	22.88	22.86	24.0	0.0
Channel				133100	135100	137100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.78	22.91	22.86	24.0	0.0



n41 Ant 4 DSIS									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.57	18.55	18.66			
100	PI2 BPSK	1	137	18.51	18.54	18.36	17.5	0.0	
100	PI2 BPSK	1	271	18.40	18.48	18.36			
100	PI2 BPSK	135	0	18.41	18.58	18.46	17.5	0.0	
100	PI2 BPSK	135	69	18.40	18.56	18.44	17.5	0.0	
100	PI2 BPSK	135	138	18.36	18.60	18.51	17.5	0.0	
100	PI2 BPSK	270	0	18.40	18.56	18.54			
100	QPSK	1	1	18.58	18.68	18.55			
100	QPSK	1	137	18.41	18.50	18.62	17.5	0.0	
100	QPSK	1	271	18.52	18.64	18.57			
100	QPSK	135	0	18.56	18.57	18.48	17.5	0.0	
100	QPSK	135	69	18.36	18.65	18.42	17.5	0.0	
100	QPSK	135	138	18.56	18.46	18.53	17.5	0.0	
100	QPSK	270	0	18.40	18.57	18.44			
100	16QAM	1	1	18.28	18.46	18.38	17.5	0.0	
100	16QAM	1	1	18.42	18.48	18.31	17.5	0.0	
100	256QAM	1	1	18.39	18.49	18.37	18.5	1.0	
Channel				50200	51898	52999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.49	18.56	18.53	17.5	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.50	18.53	18.48	17.5	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2855			
70	QPSK	1	1	18.47	18.53	18.46	17.5	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	18.48	18.51	18.43	17.5	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.42	18.60	18.44	17.5	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2870			
40	QPSK	1	1	18.47	18.57	18.42	17.5	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2874.99			
30	QPSK	1	1	18.51	18.60	18.42	17.5	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2879.99			
20	QPSK	1	1	18.56	18.54	18.45	17.5	0.0	

n41 PC2 Ant 4 DSIS									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.44	18.42	19.50			
100	PI2 BPSK	1	137	19.35	19.34	19.17	20.5	0.0	
100	PI2 BPSK	1	271	19.16	19.29	19.21			
100	PI2 BPSK	135	0	19.19	19.30	19.28	20.5	0.0	
100	PI2 BPSK	135	69	19.26	19.37	19.25	20.5	0.0	
100	PI2 BPSK	135	138	19.15	19.35	19.32	20.5	0.0	
100	PI2 BPSK	270	0	19.21	19.29	19.31			
100	QPSK	1	1	19.36	19.33	19.37			
100	QPSK	1	137	19.19	19.28	19.43	20.5	0.0	
100	QPSK	1	271	19.32	19.43	19.35			
100	QPSK	135	0	19.31	19.43	19.25	20.5	0.0	
100	QPSK	135	69	19.09	19.52	19.16	20.5	0.0	
100	QPSK	135	138	19.40	19.28	19.34	20.5	0.0	
100	QPSK	270	0	19.27	19.41	19.19			
100	16QAM	1	1	19.01	19.20	19.11	20.5	0.0	
100	16QAM	1	1	19.16	19.28	19.06	20.5	0.0	
100	256QAM	1	1	19.01	19.09	19.04	19.5	1.0	
Channel				50200	51898	52999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.17	19.33	19.35	20.5	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.20	19.30	19.20	20.5	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2855			
70	QPSK	1	1	19.30	19.41	19.19	20.5	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.31	19.44	19.19	20.5	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.26	19.38	19.16	20.5	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2870			
40	QPSK	1	1	19.14	19.52	19.34	20.5	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2874.99			
30	QPSK	1	1	19.27	19.42	19.39	20.5	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2879.99			
20	QPSK	1	1	19.25	19.46	19.27	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)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	15.79	15.79	15.87		
40	PI2 BPSK	1	53	15.75	15.83	15.50	17.0	0.0
40	PI2 BPSK	1	104	15.56	15.72	15.87		
40	PI2 BPSK	50	0	15.82	15.75	15.72	17.0	0.0
40	PI2 BPSK	50	28	15.83	15.83	15.60	17.0	0.0
40	PI2 BPSK	50	56	15.54	15.83	15.72	17.0	0.0
40	PI2 BPSK	100	0	15.72	15.86	15.73		
40	QPSK	1	1	15.83	15.98	15.78		
40	QPSK	1	53	15.59	15.84	15.68	17.0	0.0
40	QPSK	1	104	15.75	15.81	15.77		
40	QPSK	50	0	15.77	15.66	15.75	17.0	0.0
40	QPSK	50	28	15.57	15.86	15.60	17.0	0.0
40	QPSK	50	56	15.77	15.82	15.69	17.0	0.0
40	QPSK	100	0	15.56	15.72	15.69		
40	16QAM	1	1	15.56	15.62	15.51	17.0	0.0
40	64QAM	1	1	15.62	15.62	15.56	17.0	0.0
40	256QAM	1	1	15.68	15.39	15.65	17.0	0.0
Channel				637868	641666	645500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555.02	3624.99	3684.99		
30	QPSK	1	1	15.47	15.87	15.70	17.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3590.01	3624.99	3670		
20	QPSK	1	1	15.47	15.85	15.68	17.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3684.98		
10	QPSK	1	1	15.59	15.74	15.62	17.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	15.56	15.56	15.61		
100	PI2 BPSK	1	137	15.54	15.62	15.43	16.0	0.0
100	PI2 BPSK	1	271	15.27	15.44	15.35		
100	PI2 BPSK	135	0	15.47	15.58	15.54	16.0	0.0
100	PI2 BPSK	135	69	15.55	15.61	15.48	16.0	0.0
100	PI2 BPSK	135	138	15.35	15.50	15.48	16.0	0.0
100	PI2 BPSK	270	0	15.49	15.61	15.47		
100	QPSK	1	1	15.43	15.63	15.49		
100	QPSK	1	137	15.47	15.50	15.53	16.0	0.0
100	QPSK	1	271	15.43	15.62	15.53		
100	QPSK	135	0	15.54	15.44	15.52	16.0	0.0
100	QPSK	135	69	15.36	15.59	15.38	16.0	0.0
100	QPSK	135	138	15.53	15.49	15.44	16.0	0.0
100	QPSK	270	0	15.38	15.45	15.43		
100	16QAM	1	1	15.38	15.34	15.29	16.0	0.0
100	64QAM	1	1	15.40	15.45	15.24	16.0	0.0
100	256QAM	1	1	15.62	15.16	15.43	16.0	0.0
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.33	15.53	15.32	16.0	0.0
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.29	15.51	15.43	16.0	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.41	15.57	15.44	16.0	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.40	15.54	15.31	16.0	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.37	15.59	15.47	16.0	0.0
Channel				648000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.29	15.51	15.37	16.0	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	15.30	15.54	15.33	16.0	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.34	15.60	15.35	16.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.48	18.46	18.56		
100	PI2 BPSK	1	137	18.50	18.48	18.32	19.0	0.0
100	PI2 BPSK	1	271	18.11	18.28	18.31		
100	PI2 BPSK	135	0	18.40	18.44	18.40	19.0	0.0
100	PI2 BPSK	135	69	18.39	18.54	18.41	19.0	0.0
100	PI2 BPSK	135	138	18.26	18.42	18.37	19.0	0.0
100	PI2 BPSK	270	0	18.38	18.44	18.31		
100	QPSK	1	1	18.37	18.59	18.42		
100	QPSK	1	137	18.32	18.37	18.50	19.0	0.0
100	QPSK	1	271	18.39	18.58	18.42		
100	QPSK	135	0	18.38	18.29	18.48	19.0	0.0
100	QPSK	135	69	18.23	18.54	18.29	19.0	0.0
100	QPSK	135	138	18.23	18.35	18.38	19.0	0.0
100	QPSK	270	0	18.32	18.35	18.31		
100	16QAM	1	1	18.24	18.28	18.17	19.0	0.0
100	64QAM	1	1	18.38	18.33	18.15	19.0	0.0
100	256QAM	1	1	18.45	18.11	18.41	19.0	0.0
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.32	18.54	18.27	19.0	0.0
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.31	18.43	18.30	19.0	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.25	18.42	18.28	19.0	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.27	18.51	18.36	19.0	0.0
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.22	18.49	18.35	19.0	0.0
Channel				648000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.25	18.51	18.39	19.0	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	18.26	18.51	18.40	19.0	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.27	18.51	18.36	19.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	63332	63400		
100	PI2 BPSK	1	137	14.96	14.94	14.94	16.0	0.0
100	PI2 BPSK	1	271	14.96	14.96	14.96	16.0	0.0
100	PI2 BPSK	135	0	15.00	15.00	15.00	16.0	0.0
100	PI2 BPSK	135	69	15.02	15.02	15.02	16.0	0.0
100	PI2 BPSK	135	138	14.98	14.98	14.98	16.0	0.0
100	PI2 BPSK	270	0	14.93	14.93	14.93	16.0	0.0
100	QPSK	1	1	15.10	15.10	15.10	16.0	0.0
100	QPSK	1	137	14.89	14.89	14.89	16.0	0.0
100	QPSK	1	271	14.98	14.98	14.98	16.0	0.0
100	QPSK	135	0	14.94	14.94	14.94	16.0	0.0
100	QPSK	135	69	15.06	15.06	15.06	16.0	0.0
100	QPSK	135	138	14.87	14.87	14.87	16.0	0.0
100	QPSK	270	0	14.85	14.85	14.85	16.0	0.0
100	16QAM	1	1	14.88	14.88	14.88	16.0	0.0
100	64QAM	1	1	14.87	14.87	14.87	16.0	0.0
100	256QAM	1	1	14.67	14.67	14.67	16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63332	63366		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3499.98	3504.99	16.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.89	15.01	14.89	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	63200	63332	63466		
Channel								
Frequency (MHz)								
50	QPSK	1	1	3475.02	3499.98	3525	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.87	14.93	14.84	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	63100	63332	63566		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3462	3499.98	3534.99	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.87	15.05	14.83	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	63068	63332	63600		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3499.98	3540	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.78	14.98	14.83	16.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	63332	63400		
100	PI2 BPSK	1	137	17.91	17.91	17.91	19.0	0.0
100	PI2 BPSK	1	271	17.96	17.96	17.96	19.0	0.0
100	PI2 BPSK	135	0	18.02	18.02	18.02	19.0	0.0
100	PI2 BPSK	135	69	17.97	17.97	17.97	19.0	0.0
100	PI2 BPSK	135	138	17.89	17.89	17.89	19.0	0.0
100	PI2 BPSK	270	0	17.93	17.93	17.93	19.0	0.0
100	QPSK	1	1	18.10	18.10	18.10	19.0	0.0
100	QPSK	1	137	17.90	17.90	17.90	19.0	0.0
100	QPSK	1	271	18.00	18.00	18.00	19.0	0.0
100	QPSK	135	0	18.01	18.01	18.01	19.0	0.0
100	QPSK	135	69	18.07	18.07	18.07	19.0	0.0
100	QPSK	135	138	17.96	17.96	17.96	19.0	0.0
100	QPSK	270	0	18.01	18.01	18.01	19.0	0.0
100	16QAM	1	1	17.92	17.92	17.92	19.0	0.0
100	64QAM	1	1	17.94	17.94	17.94	19.0	0.0
100	256QAM	1	1	17.65	17.65	17.65	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63332	63366		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3499.98	3504.99	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.88	18.00	17.73	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	63200	63332	63466		
Channel								
Frequency (MHz)								
50	QPSK	1	1	3475.02	3499.98	3525	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.92	18.02	17.79	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	63100	63332	63566		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3462	3499.98	3534.99	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.90	18.05	17.67	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	63068	63332	63600		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3499.98	3540	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.81	17.96	17.77	19.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	65000	65050		
100	PI2 BPSK	1	137	15.61	15.61	15.61	16.0	0.0
100	PI2 BPSK	1	271	15.47	15.47	15.47	16.0	0.0
100	PI2 BPSK	135	0	15.56	15.56	15.56	16.0	0.0
100	PI2 BPSK	135	69	15.59	15.59	15.59	16.0	0.0
100	PI2 BPSK	135	138	15.58	15.58	15.58	16.0	0.0
100	PI2 BPSK	270	0	15.61	15.61	15.61	16.0	0.0
100	QPSK	1	1	15.68	15.68	15.68	16.0	0.0
100	QPSK	1	137	15.60	15.60	15.60	16.0	0.0
100	QPSK	1	271	15.62	15.62	15.62	16.0	0.0
100	QPSK	135	0	15.50	15.50	15.50	16.0	0.0
100	QPSK	135	69	15.56	15.56	15.56	16.0	0.0
100	QPSK	135	138	15.45	15.45	15.45	16.0	0.0
100	QPSK	270	0	15.52	15.52	15.52	16.0	0.0
100	16QAM	1	1	15.34	15.34	15.34	16.0	0.0
100	64QAM	1	1	15.54	15.54	15.54	16.0	0.0
100	256QAM	1	1	15.21	15.21	15.21	16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	65034		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3750	3755.01	16.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.50	15.64	15.54	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64934	65000	65066		
Channel								
Frequency (MHz)								
50	QPSK	1	1	3740.01	3750	3760.02	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.50	15.52	15.55	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64900	65000	65100		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3735	3750	3765	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.41	15.65	15.53	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64868	65000	65134		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3720.02	3750	3750.01	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.43	15.57	15.47	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64834	65000	65168		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3725.01	3750	3755.02	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.47	15.57	15.47	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64800	65000	65200		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3720	3750	3780	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.48	15.57	15.51	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64768	65000	65234		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3715.02	3750	3755.01	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.51	15.50	15.53	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64734	65000	65268		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3710.01	3750	3760.02	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.43	15.51	15.48	16.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	18.43	18.40			
100	PI2 BPSK	1	137	18.40			19.0	0.0
100	PI2 BPSK	1	271	18.40			19.0	0.0
100	PI2 BPSK	135	0	18.53			19.0	0.0
100	PI2 BPSK	135	69	18.49			19.0	0.0
100	PI2 BPSK	135	138	18.53			19.0	0.0
100	PI2 BPSK	270	0	18.45			19.0	0.0
100	QPSK	1	1	18.62			19.0	0.0
100	QPSK	1	137	18.51			19.0	0.0
100	QPSK	1	271	18.45			19.0	0.0
100	QPSK	135	0	18.45			19.0	0.0
100	QPSK	135	69	18.55			19.0	0.0
100	QPSK	135	138	18.34			19.0	0.0
100	QPSK	270	0	18.35			19.0	0.0
100	16QAM	1	1	18.22			19.0	0.0
100	16QAM	1	1	18.47			19.0	0.0
100	256QAM	1	1	18.09			19.0	0.0
Channel								
Frequency (MHz)				64968	65000	65034		
90	QPSK	1	1	18.40	18.56	18.39	19.0	0.0
Channel								
Frequency (MHz)				64934	65000	65068		
80	QPSK	1	1	18.39	18.40	18.40	19.0	0.0
Channel								
Frequency (MHz)				64900	65000	65100		
70	QPSK	1	1	18.32	18.48	18.41	19.0	0.0
Channel								
Frequency (MHz)				64868	65000	65134		
60	QPSK	1	1	18.35	18.63	18.43	19.0	0.0
Channel								
Frequency (MHz)				64834	65000	65168		
50	QPSK	1	1	18.45	18.80	18.46	19.0	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.42	18.51	18.37	19.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234		
30	QPSK	1	1	18.42	18.53	18.49	19.0	0.0
Channel								
Frequency (MHz)				64734	65000	65268		
20	QPSK	1	1	18.34	18.55	18.37	19.0	0.0

Part27Q n78 Ant 5 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	15.54				
100	PI2 BPSK	1	137	15.52			16.0	0.0
100	PI2 BPSK	1	271	15.45			16.0	0.0
100	PI2 BPSK	135	0	15.53			16.0	0.0
100	PI2 BPSK	135	69	15.57			16.0	0.0
100	PI2 BPSK	135	138	15.52			16.0	0.0
100	PI2 BPSK	270	0	15.59			16.0	0.0
100	QPSK	1	1	15.87			16.0	0.0
100	QPSK	1	137	15.56			16.0	0.0
100	QPSK	1	271	15.56			16.0	0.0
100	QPSK	135	0	15.49			16.0	0.0
100	QPSK	135	69	15.62			16.0	0.0
100	QPSK	135	138	15.44			16.0	0.0
100	QPSK	270	0	15.50			16.0	0.0
100	16QAM	1	1	15.30			16.0	0.0
100	16QAM	1	1	15.39			16.0	0.0
100	256QAM	1	1	15.19			16.0	0.0
Channel								
Frequency (MHz)				63300	63334	63368		
90	QPSK	1	1	15.28	15.62	15.36	16.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400		
80	QPSK	1	1	15.33	15.61	15.40	16.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434		
70	QPSK	1	1	15.20	15.56	15.34	16.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468		
60	QPSK	1	1	15.21	15.60	15.45	16.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500		
50	QPSK	1	1	15.29	15.63	15.47	16.0	0.0
Channel								
Frequency (MHz)				3470.01	3500.01	3530.02		
40	QPSK	1	1	15.28	15.53	15.47	16.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568		
30	QPSK	1	1	15.20	15.54	15.34	16.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600		
20	QPSK	1	1	15.19	15.62	15.49	16.0	0.0

Part27Q n78 PC2 Ant 5 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	18.48				
100	PI2 BPSK	1	137	18.53			19.0	0.0
100	PI2 BPSK	1	271	18.49			19.0	0.0
100	PI2 BPSK	135	0	18.43			19.0	0.0
100	PI2 BPSK	135	69	18.50			19.0	0.0
100	PI2 BPSK	135	138	18.42			19.0	0.0
100	PI2 BPSK	270	0	18.56			19.0	0.0
100	QPSK	1	1	18.80			19.0	0.0
100	QPSK	1	137	18.51			19.0	0.0
100	QPSK	1	271	18.45			19.0	0.0
100	QPSK	135	0	18.42			19.0	0.0
100	QPSK	135	69	18.56			19.0	0.0
100	QPSK	135	138	18.40			19.0	0.0
100	QPSK	270	0	18.46			19.0	0.0
100	16QAM	1	1	18.19			19.0	0.0
100	16QAM	1	1	18.34			19.0	0.0
100	256QAM	1	1	18.15			19.0	0.0
Channel								
Frequency (MHz)				63300	63334	63368		
90	QPSK	1	1	18.21	18.58	18.34	19.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400		
80	QPSK	1	1	18.25	18.55	18.30	19.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434		
70	QPSK	1	1	18.31	18.59	18.27	19.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468		
60	QPSK	1	1	18.17	18.56	18.39	19.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500		
50	QPSK	1	1	18.31	18.53	18.38	19.0	0.0
Channel								
Frequency (MHz)				3470.01	3500.01	3530.02		
40	QPSK	1	1	18.25	18.55	18.32	19.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568		
30	QPSK	1	1	18.33	18.53	18.25	19.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600		
20	QPSK	1	1	18.29	18.59	18.32	19.0	0.0



n41 Ant 7 DS13								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	51898	52900		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	14.50	14.51	14.55		
100	PI2 BPSK	1	137	14.43	14.40	14.23	15.5	0.0
100	PI2 BPSK	1	271	14.18	14.37	14.29		
100	PI2 BPSK	135	0	14.35	14.50	14.45	15.5	0.0
100	PI2 BPSK	135	69	14.43	14.55	14.33	15.5	0.0
100	PI2 BPSK	135	138	14.29	14.46	14.37	15.5	0.0
100	PI2 BPSK	270	0	14.35	14.48	14.35		
100	QPSK	1	1	14.44	14.58	14.51		
100	QPSK	1	137	14.38	14.50	14.37	15.5	0.0
100	QPSK	1	271	14.30	14.56	14.36		
100	QPSK	135	0	14.41	14.36	14.39	15.5	0.0
100	QPSK	135	69	14.32	14.49	14.35	15.5	0.0
100	QPSK	135	138	14.46	14.41	14.40	15.5	0.0
100	QPSK	270	0	14.38	14.43	14.41		
100	16QAM	1	1	14.28	14.27	14.14	15.5	0.0
100	16QAM	1	1	14.32	14.43	14.14	15.5	0.0
100	256QAM	1	1	14.52	14.17	14.41	15.5	0.0
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.30	14.46	14.48	15.5	0.0
Channel				507204	518998	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	14.30	14.44	14.39	15.5	0.0
Channel				503002	518998	531000	Tune-up limit	MPR
Frequency (MHz)				2631.01	2692.99	2665	(dBm)	(dB)
70	QPSK	1	1	14.32	14.46	14.35	15.5	0.0
Channel				505200	518998	531998	Tune-up limit	MPR
Frequency (MHz)				2524	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	14.42	14.43	14.37	15.5	0.0
Channel				504204	518998	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	14.30	14.58	14.36	15.5	0.0
Channel				503202	518998	533000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	14.34	14.41	14.38	15.5	0.0
Channel				502200	518998	534998	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.99	(dBm)	(dB)
30	QPSK	1	1	14.32	14.42	14.38	15.5	0.0
Channel				501204	518998	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	14.28	14.48	14.47	15.5	0.0

n41 PC2 Ant 7 DS13								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50200	51898	52900		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	17.38	17.48	17.57		
100	PI2 BPSK	1	137	17.31	17.29	17.20	18.5	0.0
100	PI2 BPSK	1	271	17.16	17.40	17.30		
100	PI2 BPSK	135	0	17.34	17.39	17.39	18.5	0.0
100	PI2 BPSK	135	69	17.35	17.50	17.29	18.5	0.0
100	PI2 BPSK	135	138	17.26	17.37	17.27	18.5	0.0
100	PI2 BPSK	270	0	17.33	17.42	17.30		
100	QPSK	1	1	17.39	17.59	17.38		
100	QPSK	1	137	17.29	17.45	17.35	18.5	0.0
100	QPSK	1	271	17.23	17.51	17.27		
100	QPSK	135	0	17.41	17.29	17.41	18.5	0.0
100	QPSK	135	69	17.29	17.51	17.32	18.5	0.0
100	QPSK	135	138	17.25	17.33	17.28	18.5	0.0
100	QPSK	270	0	17.33	17.39	17.28		
100	16QAM	1	1	17.22	17.16	17.03	18.5	0.0
100	16QAM	1	1	17.27	17.42	17.07	18.5	0.0
100	256QAM	1	1	17.48	17.12	17.35	18.5	0.0
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.23	17.56	17.22	18.5	0.0
Channel				507204	518998	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	17.21	17.43	17.21	18.5	0.0
Channel				503002	518998	531000	Tune-up limit	MPR
Frequency (MHz)				2631.01	2692.99	2665	(dBm)	(dB)
70	QPSK	1	1	17.32	17.48	17.35	18.5	0.0
Channel				505200	518998	531998	Tune-up limit	MPR
Frequency (MHz)				2524	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	17.32	17.54	17.30	18.5	0.0
Channel				504204	518998	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	17.30	17.55	17.22	18.5	0.0
Channel				503202	518998	533000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	17.36	17.52	17.23	18.5	0.0
Channel				502200	518998	534998	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.99	(dBm)	(dB)
30	QPSK	1	1	17.31	17.43	17.20	18.5	0.0
Channel				501204	518998	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	17.35	17.44	17.25	18.5	0.0



Part270 n77 Ant 8 DSI3

BW (MHz)	Modulation	RB 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	Pl2 BPSK	1	1	13.71	13.67	13.76		
100	Pl2 BPSK	1	137	13.56	13.60	13.43	15.0	0.0
100	Pl2 BPSK	1	271	13.48	13.54	13.45		
100	Pl2 BPSK	135	0	13.55	13.58	13.56	15.0	0.0
100	Pl2 BPSK	135	69	13.55	13.64	13.55	15.0	0.0
100	Pl2 BPSK	135	138	13.45	13.62	13.63	15.0	0.0
100	Pl2 BPSK	270	0	13.55	13.76	13.59		
100	QPSK	1	1	13.62	13.61	13.69		
100	QPSK	1	137	13.48	13.73	13.61	15.0	0.0
100	QPSK	1	271	13.56	13.64	13.63		
100	QPSK	135	0	13.66	13.68	13.68	15.0	0.0
100	QPSK	135	69	13.40	13.71	13.47	15.0	0.0
100	QPSK	135	138	13.46	13.65	13.52	15.0	0.0
100	QPSK	270	0	13.54	13.61	13.56		
100	16QAM	1	1	13.38	13.45	13.38	15.0	0.0
100	16QAM	1	1	13.40	13.65	13.38	15.0	0.0
100	256QAM	1	1	13.68	13.28	13.59	15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.58	13.77	13.60	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.50	13.71	13.52	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.50	13.74	13.55	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.55	13.64	13.51	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.58	13.71	13.60	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.48	13.73	13.59	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.55	13.65	13.67	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.49	13.75	13.65	15.0	0.0

Part270 n77 PC2 Ant 8 DSI3

BW (MHz)	Modulation	RB 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	Pl2 BPSK	1	1	16.66	16.72	16.76		
100	Pl2 BPSK	1	137	16.51	16.59	16.38	18.0	0.0
100	Pl2 BPSK	1	271	16.40	16.61	16.44		
100	Pl2 BPSK	135	0	16.53	16.71	16.49	18.0	0.0
100	Pl2 BPSK	135	69	16.61	16.65	16.60	18.0	0.0
100	Pl2 BPSK	135	138	16.48	16.69	16.70	18.0	0.0
100	Pl2 BPSK	270	0	16.57	16.76	16.55		
100	QPSK	1	1	16.62	16.83	16.76		
100	QPSK	1	137	16.45	16.73	16.63	18.0	0.0
100	QPSK	1	271	16.55	16.70	16.63		
100	QPSK	135	0	16.61	16.75	16.64	18.0	0.0
100	QPSK	135	69	16.45	16.77	16.39	18.0	0.0
100	QPSK	135	138	16.49	16.52	16.45	18.0	0.0
100	QPSK	270	0	16.53	16.57	16.50		
100	16QAM	1	1	16.39	16.46	16.33	18.0	0.0
100	16QAM	1	1	16.43	16.63	16.38	18.0	0.0
100	256QAM	1	1	16.83	16.23	16.57	18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.44	16.75	16.67	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.58	16.70	16.59	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.44	16.75	16.61	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.57	16.79	16.72	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.49	16.65	16.69	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.59	16.77	16.64	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.51	16.70	16.65	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.51	16.74	16.61	18.0	0.0

Part27Q n77 Ant 8 DSI3

BW (MHz)	Modulation	RB 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	Pl2 BPSK	1	1		3499.98			
100	Pl2 BPSK	1	137		13.32		15.0	0.0
100	Pl2 BPSK	1	271		13.31			
100	Pl2 BPSK	135	0		13.41		15.0	0.0
100	Pl2 BPSK	135	69		13.38		15.0	0.0
100	Pl2 BPSK	135	138		13.31		15.0	0.0
100	Pl2 BPSK	270	0		13.42			
100	QPSK	1	1		13.48			
100	QPSK	1	137		13.35		15.0	0.0
100	QPSK	1	271		13.48			
100	QPSK	135	0		13.33		15.0	0.0
100	QPSK	135	69		13.42		15.0	0.0
100	QPSK	135	138		13.28		15.0	0.0
100	QPSK	270	0		13.35			
100	16QAM	1	1		13.28		15.0	0.0
100	16QAM	1	1		13.33		15.0	0.0
100	256QAM	1	1		13.25		15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.28	13.43	13.23	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.22	13.45	13.27	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.21	13.39	13.32	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.25	13.45	13.27	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.27	13.42	13.30	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.26	13.35	13.28	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.27	13.34	13.25	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.27	13.42	13.30	15.0	0.0



Part27Q n77 PC2 Ant 8 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	PI2 BPSK	1	1	18.39				
100	PI2 BPSK	1	137	18.25			18.0	0.0
100	PI2 BPSK	1	271	18.27				
100	PI2 BPSK	135	0	18.45			18.0	0.0
100	PI2 BPSK	135	69	18.44			18.0	0.0
100	PI2 BPSK	135	138	18.31			18.0	0.0
100	PI2 BPSK	270	0	18.44				
100	QPSK	1	1	18.35			18.0	0.0
100	QPSK	1	137	18.31				
100	QPSK	1	271	18.48				
100	QPSK	135	0	18.33			18.0	0.0
100	QPSK	135	69	18.44			18.0	0.0
100	QPSK	135	138	18.25			18.0	0.0
100	QPSK	270	0	18.38				
100	16QAM	1	1	18.35			18.0	0.0
100	16QAM	1	1	18.41			18.0	0.0
100	256QAM	1	1	18.25			18.0	0.0
Channel				633000	633352	633688		
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	18.29	18.50	18.25	18.0	0.0
Channel				632868	633332	634000		
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	18.21	18.43	18.22	18.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	18.27	18.43	18.35	18.0	0.0
Channel				632000	633332	634668		
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	18.26	18.41	18.30	18.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	18.27	18.35	18.21	18.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	18.28	18.41	18.25	18.0	0.0
Channel				631000	633332	635668		
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	18.24	18.43	18.23	18.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	18.25	18.41	18.27	18.0	0.0

Part27O n78 Ant 8 DSI3

BW (MHz)	Modulation	RB 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	14.22				
100	PI2 BPSK	1	137	14.09			15.0	0.0
100	PI2 BPSK	1	271	14.01				
100	PI2 BPSK	135	0	14.19			15.0	0.0
100	PI2 BPSK	135	69	14.19			15.0	0.0
100	PI2 BPSK	135	138	14.21			15.0	0.0
100	PI2 BPSK	270	0	14.20				
100	QPSK	1	1	14.26			15.0	0.0
100	QPSK	1	137	14.21				
100	QPSK	1	271	14.14				
100	QPSK	135	0	14.09			15.0	0.0
100	QPSK	135	69	14.23			15.0	0.0
100	QPSK	135	138	14.10			15.0	0.0
100	QPSK	270	0	14.15				
100	16QAM	1	1	13.96			15.0	0.0
100	16QAM	1	1	14.13			15.0	0.0
100	256QAM	1	1	13.85			15.0	0.0
Channel				648668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	13.91	14.09	13.91	15.0	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	13.91	14.10	13.97	15.0	0.0
Channel				648000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	13.88	14.08	13.97	15.0	0.0
Channel				647668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	13.93	14.09	14.00	15.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	13.97	14.20	13.99	15.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	13.88	14.11	13.95	15.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3783.01		
30	QPSK	1	1	13.91	14.07	13.92	15.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	13.97	14.18	14.02	15.0	0.0

Part27O n78 PC2 Ant 8 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	17.08				
100	PI2 BPSK	1	137	17.00			18.0	0.0
100	PI2 BPSK	1	271	18.85				
100	PI2 BPSK	135	0	17.11			18.0	0.0
100	PI2 BPSK	135	69	17.01			18.0	0.0
100	PI2 BPSK	135	138	17.11			18.0	0.0
100	PI2 BPSK	270	0	17.08				
100	QPSK	1	1	17.16			18.0	0.0
100	QPSK	1	137	17.05				
100	QPSK	1	271	17.02				
100	QPSK	135	0	16.99			18.0	0.0
100	QPSK	135	69	17.10			18.0	0.0
100	QPSK	135	138	17.02			18.0	0.0
100	QPSK	270	0	17.08				
100	16QAM	1	1	16.89			18.0	0.0
100	16QAM	1	1	16.97			18.0	0.0
100	256QAM	1	1	16.81			18.0	0.0
Channel				648668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.77	17.02	16.75	18.0	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.72	16.99	16.57	18.0	0.0
Channel				648000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.84	16.91	16.79	18.0	0.0
Channel				647668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.87	17.01	16.84	18.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.84	16.97	16.72	18.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.82	17.04	16.82	18.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3783.01		
30	QPSK	1	1	16.74	17.05	16.76	18.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.76	16.97	16.87	18.0	0.0



Part27Q n78 Ant 8 DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3500.01						
100	PI/2 BPSK	1	1	13.84	13.84	16.68				
100	PI/2 BPSK	1	137	13.78	13.78	16.74	15.0	0.0		
100	PI/2 BPSK	1	271	13.71	13.71	16.84				
100	PI/2 BPSK	135	0	13.70	13.70	16.62	15.0	0.0		
100	PI/2 BPSK	135	69	13.70	13.70	16.57	15.0	0.0		
100	PI/2 BPSK	135	138	13.80	13.80	16.71	15.0	0.0		
100	PI/2 BPSK	270	0	13.78	13.78	16.73				
100	QPSK	1	1	13.91	13.91	16.81				
100	QPSK	1	137	13.80	13.80	16.78	15.0	0.0		
100	QPSK	1	271	13.87	13.87	16.78				
100	QPSK	135	0	13.88	13.88	16.50	15.0	0.0		
100	QPSK	135	69	13.89	13.89	16.80	15.0	0.0		
100	QPSK	135	138	13.89	13.89	16.88	15.0	0.0		
100	QPSK	270	0	13.75	13.75	16.65	15.0	0.0		
100	16QAM	1	1	13.60	13.60	16.47	15.0	0.0		
100	64QAM	1	1	13.70	13.70	16.57	15.0	0.0		
100	256QAM	1	1	13.44	13.44	16.27	15.0	0.0		
Channel				633090	633334	633668				
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	1	13.49	13.68	13.66	15.0	0.0		
Channel				632668	633334	634000				
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	13.51	13.79	13.69	15.0	0.0		
Channel				632334	633334	634334				
Frequency (MHz)				3485.01	3500.01	3515.01				
70	QPSK	1	1	13.57	13.79	13.68	15.0	0.0		
Channel				632000	633334	634668				
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	13.50	13.85	13.70	15.0	0.0		
Channel				631668	633334	635000				
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	13.55	13.78	13.62	15.0	0.0		
Channel				631334	633334	635334				
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	13.63	13.89	13.67	15.0	0.0		
Channel				631000	633334	635668				
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	13.61	13.79	13.63	15.0	0.0		
Channel				630668	633334	636000				
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	13.53	13.71	13.62	15.0	0.0		

Part27Q n78 PC2 Ant 8 DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				3500.01						
100	PI/2 BPSK	1	1	16.68	16.68	18.0				
100	PI/2 BPSK	1	137	16.74	16.74	18.0	18.0	0.0		
100	PI/2 BPSK	1	271	16.84	16.84	18.0				
100	PI/2 BPSK	135	0	16.62	16.62	18.0	18.0	0.0		
100	PI/2 BPSK	135	69	16.57	16.57	18.0	18.0	0.0		
100	PI/2 BPSK	135	138	16.71	16.71	18.0	18.0	0.0		
100	PI/2 BPSK	270	0	16.73	16.73	18.0				
100	QPSK	1	1	16.81	16.81	18.0				
100	QPSK	1	137	16.78	16.78	18.0	18.0	0.0		
100	QPSK	1	271	16.78	16.78	18.0				
100	QPSK	135	0	16.50	16.50	18.0	18.0	0.0		
100	QPSK	135	69	16.80	16.80	18.0	18.0	0.0		
100	QPSK	135	138	16.88	16.88	18.0	18.0	0.0		
100	QPSK	270	0	16.65	16.65	18.0	18.0	0.0		
100	16QAM	1	1	16.47	16.47	18.0	18.0	0.0		
100	64QAM	1	1	16.57	16.57	18.0	18.0	0.0		
100	256QAM	1	1	16.27	16.27	18.0	18.0	0.0		
Channel				633090	633334	633668				
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	1	16.35	16.63	16.61	18.0	0.0		
Channel				632668	633334	634000				
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	16.42	16.53	16.52	18.0	0.0		
Channel				632334	633334	634334				
Frequency (MHz)				3485.01	3500.01	3515.01				
70	QPSK	1	1	16.40	16.65	16.49	18.0	0.0		
Channel				632000	633334	634668				
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	16.34	16.60	16.58	18.0	0.0		
Channel				631668	633334	635000				
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	16.46	16.58	16.50	18.0	0.0		
Channel				631334	633334	635334				
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	16.32	16.63	16.59	18.0	0.0		
Channel				631000	633334	635668				
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	16.35	16.63	16.55	18.0	0.0		
Channel				630668	633334	636000				
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	16.40	16.57	16.63	18.0	0.0		



Reduced Power Mode for Main PA DS13 ENDC

n2 Ant 0 DS13 sig path : 164

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				1600	1600	1600		
Frequency (MHz)								
20	PI2 BPSK	1	1	16.72	16.72	16.70		
20	PI2 BPSK	1	53	16.51	16.66	16.39	17.5	0.0
20	PI2 BPSK	1	104	16.51	16.54	16.47		
20	PI2 BPSK	50	0	16.50	16.71	16.59	17.5	0.0
20	PI2 BPSK	50	28	16.54	16.67	16.49	17.5	0.0
20	PI2 BPSK	50	56	16.44	16.63	16.57	17.5	0.0
20	PI2 BPSK	100	0	16.50	16.71	16.62		
20	QPSK	1	1	16.65	16.79	16.61		
20	QPSK	1	53	16.59	16.69	16.66	17.5	0.0
20	QPSK	1	104	16.56	16.67	16.55		
20	QPSK	50	0	16.64	16.63	16.66	17.5	0.0
20	QPSK	50	28	16.47	16.76	16.47	17.5	0.0
20	QPSK	50	56	16.66	16.56	16.66	17.5	0.0
20	QPSK	100	0	16.51	16.72	16.59		
20	16QAM	1	1	16.35	16.46	16.32	17.5	0.0
20	64QAM	1	1	16.41	16.61	16.36	17.5	0.0
20	256QAM	1	1	16.69	16.40	16.51	17.5	0.0
Channel				371500	376000	380500		
Frequency (MHz)				187.5	1880	1902.5		
15	QPSK	1	1	16.50	16.72	16.52	17.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1865	1880	1906		
10	QPSK	1	1	16.55	16.65	16.43	17.5	0.0
Channel				376500	376000	381500		
Frequency (MHz)				1892.5	1880	1907.5		
5	QPSK	1	1	16.61	16.70	16.45	17.5	0.0

n2 Ant 0 DS13 sig path : 429

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				1600	1600	1600		
Frequency (MHz)								
20	PI2 BPSK	1	1	16.68	16.85	16.74		
20	PI2 BPSK	1	53	16.61	16.76	16.57	17.5	0.0
20	PI2 BPSK	1	104	16.55	16.69	16.68		
20	PI2 BPSK	50	0	16.62	16.80	16.79	17.5	0.0
20	PI2 BPSK	50	28	16.71	16.61	16.59	17.5	0.0
20	PI2 BPSK	50	56	16.59	16.77	16.65	17.5	0.0
20	PI2 BPSK	100	0	16.67	16.77	16.61		
20	QPSK	1	1	16.74	16.89	16.78		
20	QPSK	1	53	16.61	16.82	16.68	17.5	0.0
20	QPSK	1	104	16.64	16.68	16.76		
20	QPSK	50	0	16.72	16.72	16.76	17.5	0.0
20	QPSK	50	28	16.56	16.83	16.69	17.5	0.0
20	QPSK	50	56	16.76	16.69	16.74	17.5	0.0
20	QPSK	100	0	16.68	16.79	16.71		
20	16QAM	1	1	16.54	16.68	16.54	17.5	0.0
20	64QAM	1	1	16.54	16.72	16.58	17.5	0.0
20	256QAM	1	1	16.78	16.51	16.64	17.5	0.0
Channel				371500	376000	380500		
Frequency (MHz)				187.5	1880	1902.5		
15	QPSK	1	1	16.70	16.81	16.72	17.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1865	1880	1906		
10	QPSK	1	1	16.71	16.87	16.69	17.5	0.0
Channel				376500	376000	381500		
Frequency (MHz)				1892.5	1880	1907.5		
5	QPSK	1	1	16.68	16.76	16.67	17.5	0.0

n5 Ant 0 DS13 sig path : 168

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	20.96	20.94	20.92		
20	PI2 BPSK	1	53	20.88	20.86	20.95	21.0	0.0
20	PI2 BPSK	1	104	20.95	20.84	20.84		
20	PI2 BPSK	50	0	20.90	20.84	20.87	21.0	0.0
20	PI2 BPSK	50	28	20.87	20.90	20.83	21.0	0.0
20	PI2 BPSK	50	56	20.93	20.91	20.85	21.0	0.0
20	PI2 BPSK	100	0	20.87	20.98	20.94		
20	QPSK	1	1	20.92	20.85	20.85		
20	QPSK	1	53	20.92	20.91	20.92	21.0	0.0
20	QPSK	1	104	20.92	20.86	20.95		
20	QPSK	50	0	20.92	20.86	20.85	21.0	0.0
20	QPSK	50	28	20.91	20.95	20.91	21.0	0.0
20	QPSK	50	56	20.79	20.88	20.85	21.0	0.0
20	QPSK	100	0	20.84	20.91	20.90		
20	16QAM	1	1	20.89	20.91	20.86	21.0	0.0
20	64QAM	1	1	20.90	20.86	20.85	21.0	0.0
20	256QAM	1	1	18.34	18.56	18.51	19.5	1.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.90	20.01	19.87	21.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	19.95	20.03	19.88	21.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.96	19.97	19.82	21.0	0.0



n5 Ant 0 DSI3 sig path: 414

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	19.63	19.69	19.64	21.0	0.0
20	PI/2 BPSK	1	63	19.70	19.59	19.67		
20	PI/2 BPSK	1	104	19.70	19.58	19.65		
20	PI/2 BPSK	50	0	19.72	19.65	19.63	21.0	0.0
20	PI/2 BPSK	50	28	19.64	19.57	19.62	21.0	0.0
20	PI/2 BPSK	50	66	19.64	19.66	19.66	21.0	0.0
20	PI/2 BPSK	100	0	19.62	19.73	19.67		
20	QPSK	1	1	19.65	19.74	19.71		
20	QPSK	1	53	19.65	19.68	19.69	21.0	0.0
20	QPSK	1	104	19.62	19.64	19.66	21.0	0.0
20	QPSK	50	0	19.70	19.64	19.66		
20	QPSK	50	28	19.64	19.72	19.67		
20	QPSK	50	56	19.56	19.63	19.60	21.0	0.0
20	QPSK	100	0	19.66	19.70	19.63	21.0	0.0
20	16QAM	1	1	19.66	19.70	19.56		
20	16QAM	1	1	19.72	19.67	19.56		
20	256QAM	1	1	18.52	18.55	18.38	19.5	1.5
Channel				166300	167300	168300	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.43	19.60	19.55	21.0	0.0
Channel				165900	167300	166800	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	19.63	19.57	19.57	21.0	0.0
Channel				165300	167300	166300	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				826.5	836.5	841.5		
5	QPSK	1	1	19.53	19.67	19.66	21.0	0.0

n12 Ant 0 DSI3 sig path: 172

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				705.5	707.5	709.5		
15	PI/2 BPSK	1	1	22.97	23.09	22.95	24.0	0.0
15	PI/2 BPSK	1	40	22.85	22.90	22.87		
15	PI/2 BPSK	1	77	22.88	23.02	22.91		
15	PI/2 BPSK	36	0	22.53	22.63	22.57	23.5	0.5
15	PI/2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI/2 BPSK	36	43	22.46	22.56	22.46	23.5	0.5
15	PI/2 BPSK	75	0	22.46	22.57	22.51		
15	QPSK	1	1	22.99	23.13	23.03		
15	QPSK	1	40	23.03	23.09	22.98	24.0	0.0
15	QPSK	1	77	22.99	23.05	22.93	23.0	1.0
15	QPSK	36	0	21.97	22.03	21.96		
15	QPSK	36	22	22.97	23.04	22.93		
15	QPSK	36	43	21.88	21.93	21.87	23.0	1.0
15	QPSK	75	0	21.91	21.98	21.88	23.0	1.0
15	16QAM	1	1	21.99	22.02	21.95		
15	16QAM	1	1	20.54	20.65	20.51		
15	256QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel				140300	141500	142000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.89	23.02	22.96	24.0	0.0

n12 Ant 0 DSI3 sig path: 417

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				705.5	707.5	709.5		
15	PI/2 BPSK	1	1	22.81	22.85	22.82	24.0	0.0
15	PI/2 BPSK	1	40	22.66	22.78	22.66		
15	PI/2 BPSK	1	77	22.70	22.80	22.63		
15	PI/2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI/2 BPSK	36	22	22.76	22.78	22.74	24.0	0.0
15	PI/2 BPSK	36	43	22.26	22.37	22.29	23.5	0.5
15	PI/2 BPSK	75	0	22.31	22.46	22.32		
15	QPSK	1	1	22.92	22.93	22.88		
15	QPSK	1	40	22.62	22.78	22.73	24.0	0.0
15	QPSK	1	77	22.74	22.62	22.64	23.0	1.0
15	QPSK	36	0	21.88	21.94	21.86		
15	QPSK	36	22	22.80	22.85	22.88		
15	QPSK	36	43	21.76	21.88	21.81	23.0	1.0
15	QPSK	75	0	21.80	21.95	21.86	23.0	1.0
15	16QAM	1	1	22.20	22.24	22.13		
15	16QAM	1	1	20.08	20.11	20.08		
15	256QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel				140300	141500	142000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.90	22.76	22.79	24.0	0.0



n25 Ant 0 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				374000	376500	379000		
Frequency (MHz)				1820	1822.5	1825		
40	PI2 BPSK	1	1	16.92	17.00	16.98		
40	PI2 BPSK	1	108	16.78	16.87	16.77	17.5	0.0
40	PI2 BPSK	1	214	16.68	16.90	16.71		
40	PI2 BPSK	108	0	16.79	16.84	16.81	17.5	0.0
40	PI2 BPSK	108	54	16.79	16.97	16.82	17.5	0.0
40	PI2 BPSK	108	108	16.81	16.88	16.75		
40	PI2 BPSK	216	0	16.88	16.93	16.80	17.5	0.0
40	QPSK	1	1	16.89	17.08	16.89		
40	QPSK	1	108	16.79	16.87	16.85	17.5	0.0
40	QPSK	1	214	16.89	17.03	16.77		
40	QPSK	108	0	16.86	16.87	16.87	17.5	0.0
40	QPSK	108	54	16.68	16.94	16.82	17.5	0.0
40	QPSK	108	108	16.86	16.91	16.90		
40	QPSK	216	0	16.81	16.88	16.80	17.5	0.0
40	16QAM	1	1	16.75	16.83	16.82	17.5	0.0
40	64QAM	1	1	16.65	16.84	16.64	17.5	0.0
40	256QAM	1	1	16.87	16.87	16.83	17.5	0.0
Channel				373000	376500	380000		
Frequency (MHz)				1865	1892.5	1900		
30	QPSK	1	1	16.79	17.02	16.77	17.5	0.0
Channel				372500	376500	380500		
Frequency (MHz)				1862.5	1892.5	1902.5		
25	QPSK	1	1	16.74	16.91	16.84	17.5	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1860	1892.5	1905		
20	QPSK	1	1	16.78	16.99	16.73	17.5	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1857.5	1892.5	1907.5		
15	QPSK	1	1	16.87	16.97	16.80	17.5	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1892.5	1910		
10	QPSK	1	1	16.83	16.91	16.74	17.5	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1892.5	1912.5		
5	QPSK	1	1	16.81	17.02	16.79	17.5	0.0

n66 Ant 0 DSI3 sig path: 174

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				349000	349000	352000		
Frequency (MHz)				1720	1745	1765		
40	PI2 BPSK	1	1	18.22	18.31	18.33		
40	PI2 BPSK	1	108	18.10	18.30	18.04	19.5	0.0
40	PI2 BPSK	1	214	18.03	18.26	18.05		
40	PI2 BPSK	108	0	18.13	18.21	18.20	19.5	0.0
40	PI2 BPSK	108	54	18.14	18.25	18.07	19.5	0.0
40	PI2 BPSK	108	108	18.06	18.32	18.16		
40	PI2 BPSK	216	0	18.25	18.31	18.19	19.5	0.0
40	QPSK	1	1	18.25	18.42	18.15		
40	QPSK	1	108	18.19	18.34	18.28	19.5	0.0
40	QPSK	1	214	18.11	18.33	18.18		
40	QPSK	108	0	18.26	18.22	18.29	19.5	0.0
40	QPSK	108	54	18.07	18.39	18.27	19.5	0.0
40	QPSK	108	108	18.15	18.18	18.23		
40	QPSK	216	0	18.19	18.33	18.27	19.5	0.0
40	16QAM	1	1	18.00	18.07	18.04	19.5	0.0
40	64QAM	1	1	18.04	18.19	18.02	19.5	0.0
40	256QAM	1	1	18.21	17.93	18.18	19.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.17	18.32	18.06	19.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.09	18.34	17.99	19.5	0.0
Channel				343000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.16	18.28	18.08	19.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.09	18.38	17.95	19.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.16	18.26	18.11	19.5	0.0

n66 Ant 0 DSI3 sig path: 432

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				349000	349000	352000		
Frequency (MHz)				1720	1745	1765		
40	PI2 BPSK	1	1	18.30	18.22	18.22		
40	PI2 BPSK	1	108	18.21	18.33	18.13	19.5	0.0
40	PI2 BPSK	1	214	18.01	18.24	18.16		
40	PI2 BPSK	108	0	18.09	18.32	18.19	19.5	0.0
40	PI2 BPSK	108	54	18.12	18.22	18.20	19.5	0.0
40	PI2 BPSK	108	108	18.01	18.22	18.15		
40	PI2 BPSK	216	0	18.14	18.26	18.16	19.5	0.0
40	QPSK	1	1	18.21	18.34	18.20		
40	QPSK	1	108	18.08	18.23	18.21	19.5	0.0
40	QPSK	1	214	18.10	18.31	18.13		
40	QPSK	108	0	18.24	18.20	18.20	19.5	0.0
40	QPSK	108	54	18.03	18.31	18.07	19.5	0.0
40	QPSK	108	108	18.16	18.20	18.27		
40	QPSK	216	0	18.08	18.25	18.21	19.5	0.0
40	16QAM	1	1	17.97	18.05	18.05	19.5	0.0
40	64QAM	1	1	18.12	18.21	17.99	19.5	0.0
40	256QAM	1	1	18.24	18.00	18.15	19.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.09	18.31	18.00	19.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.16	18.27	18.13	19.5	0.0
Channel				343000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.12	18.20	18.10	19.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.06	18.19	18.03	19.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.14	18.21	18.03	19.5	0.0



n71 Ant 0 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 134600	Power Middle Ch. / Freq. 136100	Power High Ch. / Freq. 137600	Tune-up limit (dBm)	MPR (dB)
Channel				876	880.5	885		
Frequency (MHz)								
20	PI/2 BPSK	1	1	23.07	23.21	23.12	24.0	0.0
20	PI/2 BPSK	1	53	23.03	23.15	23.01		
20	PI/2 BPSK	1	104	23.02	23.10	22.95		
20	PI/2 BPSK	50	0	22.67	22.73	22.64	23.5	0.5
20	PI/2 BPSK	50	26	23.01	23.11	23.04	24.0	0.0
20	PI/2 BPSK	50	56	22.52	22.62	22.57	23.5	0.5
20	PI/2 BPSK	100	0	22.70	22.77	22.62		
20	QPSK	1	1	23.13	23.24	23.18	24.0	0.0
20	QPSK	1	53	23.10	23.21	23.15		
20	QPSK	1	104	23.08	23.13	23.06		
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0
20	QPSK	50	26	23.06	23.18	23.06	24.0	0.0
20	QPSK	50	56	21.97	22.11	21.97	23.0	1.0
20	QPSK	100	0	22.10	22.23	22.17		
20	16QAM	1	1	22.37	22.47	22.39	23.0	1.0
20	64QAM	1	1	20.46	20.60	20.54	21.5	2.5
20	256QAM	1	1	18.87	18.99	18.94	19.5	4.5
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				870.5	880.5	890.5	(dBm)	(dB)
15	QPSK	1	1	23.88	23.10	23.04	24.0	0.0
Channel				133600	136100	138600	Tune-up limit	MPR
Frequency (MHz)				868	880.5	893	(dBm)	(dB)
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0
Channel				133100	136100	139100	Tune-up limit	MPR
Frequency (MHz)				865.5	880.5	895.5	(dBm)	(dB)
5	QPSK	1	1	22.99	23.11	23.05	24.0	0.0



n7 Ant 1 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				503000	507000	510000	
Frequency (MHz)				2530	2535	2550	
40	PI/2 BPSK	1	1	18.74	18.82	18.78	
40	PI/2 BPSK	1	108	18.68	18.80	18.49	17.5
40	PI/2 BPSK	1	214	18.80	18.87	18.86	
40	PI/2 BPSK	108	0	18.82	18.80	18.88	17.5
40	PI/2 BPSK	108	54	18.68	18.78	18.68	17.5
40	PI/2 BPSK	108	108	18.68	18.70	18.89	17.5
40	PI/2 BPSK	216	0	18.66	18.88	18.70	
40	QPSK	1	1	18.70	18.89	18.69	
40	QPSK	1	108	18.58	18.77	18.75	17.5
40	QPSK	1	214	18.63	18.84	18.70	
40	QPSK	108	0	18.71	18.78	18.72	17.5
40	QPSK	108	54	18.55	18.85	18.88	17.5
40	QPSK	108	108	18.75	18.87	18.79	17.5
40	QPSK	216	0	18.58	18.80	18.75	
40	16QAM	1	1	18.58	18.67	18.54	17.5
40	16QAM	1	1	18.58	18.78	18.55	17.5
40	256QAM	1	1	18.78	18.42	18.57	17.5
Channel				503000	507000	510000	
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	18.64	18.88	18.61	17.5
Channel				502500	507000	511500	
Frequency (MHz)				2512.5	2535	2527.5	
25	QPSK	1	1	18.52	18.85	18.83	17.5
Channel				502000	507000	510000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.88	18.89	18.82	17.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2542.5	
15	QPSK	1	1	18.68	18.75	18.85	17.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	18.87	18.79	18.52	17.5
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2587.5	
5	QPSK	1	1	18.68	18.78	18.59	17.5

n30 Ant 1 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				480500	482500	482500	
Frequency (MHz)				2310			
10	PI/2 BPSK	1	1		17.37		
10	PI/2 BPSK	1	26		17.24		18.0
10	PI/2 BPSK	1	50		17.24		18.0
10	PI/2 BPSK	25	0		17.28		18.0
10	PI/2 BPSK	25	14		17.35		18.0
10	PI/2 BPSK	25	27		17.28		18.0
10	PI/2 BPSK	50	0		17.41		18.0
10	QPSK	1	1		17.44		
10	QPSK	1	26		17.34		18.0
10	QPSK	1	50		17.29		
10	QPSK	25	0		17.18		18.0
10	QPSK	25	14		17.24		18.0
10	QPSK	25	27		17.10		18.0
10	QPSK	50	0		17.18		18.0
10	16QAM	1	1		17.04		18.0
10	16QAM	1	1		17.25		18.0
10	256QAM	1	1		17.34		18.0
Channel				481500	482500	482500	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	17.23	17.35	17.12	18.0



n41 Ant 1 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50202	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.80	14.84	14.87			
100	PI2 BPSK	1	137	14.74	14.81	14.73	16.0	0.0	
100	PI2 BPSK	1	271	14.68	14.76	14.76			
100	PI2 BPSK	135	0	14.69	14.88	14.81	16.0	0.0	
100	PI2 BPSK	135	69	14.76	14.82	14.82	16.0	0.0	
100	PI2 BPSK	135	138	14.73	14.77	14.80	16.0	0.0	
100	PI2 BPSK	270	0	14.77	14.87	14.82			
100	QPSK	1	1	14.85	14.89	14.84			
100	QPSK	1	137	14.76	14.81	14.86	16.0	0.0	
100	QPSK	1	271	14.74	14.86	14.74			
100	QPSK	135	0	14.79	14.77	14.79	16.0	0.0	
100	QPSK	135	69	14.67	14.88	14.69	16.0	0.0	
100	QPSK	135	138	14.81	14.81	14.76	16.0	0.0	
100	QPSK	270	0	14.75	14.85	14.82			
100	16QAM	1	1	14.67	14.75	14.65	16.0	0.0	
100	16QAM	1	1	14.62	14.85	14.61	16.0	0.0	
100	256QAM	1	1	14.73	14.69	14.58	16.0	0.0	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.69	14.80	14.71	16.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	14.76	14.83	14.67	16.0	0.0	
Channel				50202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	14.72	14.85	14.73	16.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	14.76	14.81	14.76	16.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.75	14.69	14.77	16.0	0.0	
Channel				50202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.82	14.84	14.73	16.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.70	14.73	14.71	16.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.79	14.77	14.72	16.0	0.0	

n41 PC2 Ant 1 DS13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50202	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.86	17.93	18.00			
100	PI2 BPSK	1	137	17.89	17.86	17.75	19.0	0.0	
100	PI2 BPSK	1	271	17.76	17.84	17.85			
100	PI2 BPSK	135	0	17.82	18.01	17.92	19.0	0.0	
100	PI2 BPSK	135	69	17.79	17.96	17.86	19.0	0.0	
100	PI2 BPSK	135	138	17.77	17.81	17.89	19.0	0.0	
100	PI2 BPSK	270	0	17.80	18.01	17.90			
100	QPSK	1	1	18.02	18.03	17.99			
100	QPSK	1	137	17.93	17.83	18.02	19.0	0.0	
100	QPSK	1	271	17.86	18.00	17.79			
100	QPSK	135	0	17.87	17.86	17.82	19.0	0.0	
100	QPSK	135	69	17.73	17.94	17.91	19.0	0.0	
100	QPSK	135	138	17.76	17.81	17.76	19.0	0.0	
100	QPSK	270	0	17.82	17.86	17.82			
100	16QAM	1	1	17.71	17.89	17.82	19.0	0.0	
100	16QAM	1	1	17.80	17.98	17.84	19.0	0.0	
100	256QAM	1	1	17.76	17.81	17.85	19.0	0.0	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.95	17.91	17.80	19.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	17.84	17.80	17.85	19.0	0.0	
Channel				50202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	17.86	17.86	17.90	19.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	17.89	17.94	17.88	19.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.97	17.89	17.82	19.0	0.0	
Channel				50202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.86	17.95	17.92	19.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.87	17.85	17.79	19.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.96	17.99	17.90	19.0	0.0	



n2 Ant 4 DSI3 sig path: 164

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.56	15.57	15.59		
20	PI2 BPSK	1	53	15.40	15.50	15.44	17.0	0.0
20	PI2 BPSK	1	104	15.28	15.54	15.33		
20	PI2 BPSK	50	0	15.48	15.64	15.52	17.0	0.0
20	PI2 BPSK	50	28	15.45	15.60	15.45	17.0	0.0
20	PI2 BPSK	50	56	15.33	15.47	15.47	17.0	0.0
20	PI2 BPSK	100	0	15.39	15.62	15.46		
20	QPSK	1	1	15.43	15.68	15.61		
20	QPSK	1	53	15.35	15.49	15.59	17.0	0.0
20	QPSK	1	104	15.49	15.57	15.49		
20	QPSK	50	0	15.59	15.60	15.51	17.0	0.0
20	QPSK	50	28	15.37	15.61	15.45	17.0	0.0
20	QPSK	50	56	15.48	15.50	15.43		
20	QPSK	100	0	15.35	15.54	15.42	17.0	0.0
20	16QAM	1	1	15.28	15.34	15.28	17.0	0.0
20	16QAM	1	1	15.31	15.56	15.24	17.0	0.0
20	256QAM	1	1	15.50	15.25	15.43	17.0	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.39	15.54	15.56	17.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.27	15.60	15.59	17.0	0.0
Channel								
Frequency (MHz)				375500	379000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.52	18.80	19.07.5		

n2 Ant 4 DSI3 sig path: 429

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.38	15.38	15.34		
20	PI2 BPSK	1	53	15.23	15.35	15.24	17.0	0.0
20	PI2 BPSK	1	104	15.11	15.30	15.20		
20	PI2 BPSK	50	0	15.28	15.41	15.34	17.0	0.0
20	PI2 BPSK	50	28	15.26	15.45	15.28	17.0	0.0
20	PI2 BPSK	50	56	15.12	15.25	15.29	17.0	0.0
20	PI2 BPSK	100	0	15.15	15.37	15.19		
20	QPSK	1	1	15.22	15.52	15.48		
20	QPSK	1	53	15.20	15.23	15.32	17.0	0.0
20	QPSK	1	104	15.28	15.35	15.35		
20	QPSK	50	0	15.40	15.34	15.24	17.0	0.0
20	QPSK	50	28	15.25	15.41	15.22	17.0	0.0
20	QPSK	50	56	15.22	15.36	15.24		
20	QPSK	100	0	15.28	15.40	15.19	17.0	0.0
20	16QAM	1	1	15.23	15.37	15.15	17.0	0.0
20	16QAM	1	1	15.33	15.38	15.34	17.0	0.0
20	256QAM	1	1	15.27	15.12	15.30	17.0	0.0
Channel								
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.16	15.43	15.33	17.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.55	18.80	19.05		
Channel								
Frequency (MHz)				370500	379000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.17	15.43	15.42	17.0	0.0

n5 Ant 4 DSI3 sig path: 168

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	838.5	839		
20	PI2 BPSK	1	1	21.05	20.95	21.00		
20	PI2 BPSK	1	53	20.93	20.95	21.06	21.5	0.0
20	PI2 BPSK	1	104	20.97	20.98	21.02		
20	PI2 BPSK	50	0	21.02	20.94	20.97	21.5	0.0
20	PI2 BPSK	50	28	20.95	20.99	21.04	21.5	0.0
20	PI2 BPSK	50	56	21.03	20.98	20.96	21.5	0.0
20	PI2 BPSK	100	0	21.07	21.03	21.03		
20	QPSK	1	1	21.09	20.99	21.02		
20	QPSK	1	53	20.95	21.10	20.96	21.5	0.0
20	QPSK	1	104	20.94	20.89	21.03		
20	QPSK	50	0	21.08	20.97	21.06	21.5	0.0
20	QPSK	50	28	21.04	21.08	21.02	21.5	0.0
20	QPSK	50	56	21.04	20.94	20.97		
20	QPSK	100	0	20.98	21.03	20.96	21.5	0.0
20	16QAM	1	1	21.02	21.01	21.04	21.5	0.0
20	16QAM	1	1	20.51	20.96	20.51	21.5	0.0
20	256QAM	1	1	18.52	18.63	18.48	19.5	2.0
Channel								
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.95	21.04	20.93	21.5	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.99	20.95	20.97	21.5	0.0
Channel								
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.97	21.09	20.88	21.5	0.0



n5 Ant 4 DSI3 sig path: 414									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				165800	167300	168800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	20.93	21.01	20.98			
20	PI2 BPSK	1	53	20.88	20.94	20.96	21.5	0.0	
20	PI2 BPSK	1	104	20.94	20.88	20.97			
20	PI2 BPSK	50	0	20.92	20.98	20.86	21.5	0.0	
20	PI2 BPSK	50	28	20.99	20.85	20.92	21.5	0.0	
20	PI2 BPSK	50	58	21.04	20.99	20.91	21.5	0.0	
20	PI2 BPSK	100	0	20.99	20.95	20.98			
20	QPSK	1	1	20.92	21.07	20.88			
20	QPSK	1	53	21.00	20.98	20.92	21.5	0.0	
20	QPSK	1	104	20.99	20.84	20.93			
20	QPSK	50	0	20.98	20.99	20.96	21.5	0.0	
20	QPSK	50	28	20.93	21.03	21.00	21.5	0.0	
20	QPSK	50	58	20.84	20.98	20.93			
20	QPSK	100	0	20.96	21.01	20.98	21.5	0.0	
20	16QAM	1	1	20.90	21.02	20.92	21.5	0.0	
20	16QAM	1	1	20.32	20.46	20.45	21.5	0.0	
20	256QAM	1	1	18.98	19.04	19.04	19.5	2.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	20.82	20.97	20.73	21.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	833.5	847			
10	QPSK	1	1	20.78	20.90	20.70	21.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	20.84	20.94	20.77	21.5	0.0	

n12 Ant 4 DSI3 sig path: 172									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	23.16	23.22	23.11			
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0	
15	PI2 BPSK	1	77	23.01	23.13	22.99			
15	PI2 BPSK	36	0	22.84	22.75	22.88	23.5	0.5	
15	PI2 BPSK	36	22	23.11	23.17	23.07	24.0	0.0	
15	PI2 BPSK	36	43	22.56	22.89	22.61	23.5	0.5	
15	PI2 BPSK	75	0	22.65	22.77	22.67			
15	QPSK	1	1	23.19	23.23	23.15			
15	QPSK	1	40	23.07	23.18	23.09	24.0	0.0	
15	QPSK	1	77	22.98	23.08	23.00			
15	QPSK	36	0	22.23	22.29	22.17	23.0	1.0	
15	QPSK	36	22	23.07	23.15	23.00	24.0	0.0	
15	QPSK	36	43	22.08	22.16	22.09	23.0	1.0	
15	QPSK	75	0	22.15	22.23	22.11			
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0	
15	16QAM	1	1	20.45	20.53	20.39	21.5	2.5	
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5	
Channel				140300	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0	

n12 Ant 4 DSI3 sig path: 417									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	22.93	23.02	22.93			
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0	
15	PI2 BPSK	1	77	22.91	22.95	22.89			
15	PI2 BPSK	36	0	22.49	22.83	22.44	23.5	0.5	
15	PI2 BPSK	36	22	22.99	22.95	22.89	24.0	0.0	
15	PI2 BPSK	36	43	22.42	22.55	22.42	23.5	0.5	
15	PI2 BPSK	75	0	22.51	22.58	22.57			
15	QPSK	1	1	23.00	23.06	22.99			
15	QPSK	1	40	22.97	22.98	22.81	24.0	0.0	
15	QPSK	1	77	22.86	23.02	22.88			
15	QPSK	36	0	22.05	22.11	22.05	23.0	1.0	
15	QPSK	36	22	22.75	22.89	22.78	24.0	0.0	
15	QPSK	36	43	21.85	22.01	21.94	23.0	1.0	
15	QPSK	75	0	21.87	22.05	21.92			
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0	
15	16QAM	1	1	20.32	20.48	20.32	21.5	2.5	
15	256QAM	1	1	18.94	19.08	19.07	19.5	4.5	
Channel				140300	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.84	22.98	22.84	24.0	0.0	



n25 Ant 4 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374900	376500	378100		
Frequency (MHz)				1870	1882.5	1895		
40	PI/2 BPSK	1	1	18.10	18.20	18.24		
40	PI/2 BPSK	1	108	18.13	18.22	18.11	17.0	0.0
40	PI/2 BPSK	1	214	18.10	18.14	18.04		
40	PI/2 BPSK	108	0	18.06	18.11	18.11	17.0	0.0
40	PI/2 BPSK	108	54	18.06	18.22	18.06	17.0	0.0
40	PI/2 BPSK	108	108	18.02	18.08	18.02	17.0	0.0
40	PI/2 BPSK	216	0	18.05	18.25	18.06		
40	QPSK	1	1	18.28	18.31	18.12		
40	QPSK	1	108	18.10	18.20	18.09	17.0	0.0
40	QPSK	1	214	18.10	18.16	18.10		
40	QPSK	108	0	18.20	18.08	18.12	17.0	0.0
40	QPSK	108	54	18.10	18.28	18.05	17.0	0.0
40	QPSK	108	108	18.00	18.10	18.08	17.0	0.0
40	QPSK	216	0	18.01	18.14	18.11		
40	16QAM	1	1	18.11	18.05	18.11	17.0	0.0
40	16QAM	1	1	18.01	18.05	18.13	17.0	0.0
40	256QAM	1	1	18.18	18.05	18.03	17.0	0.0
Channel				383000	376500	389500		
Frequency (MHz)				1895	1882.5	1900		
30	QPSK	1	1	18.17	18.16	18.02	17.0	0.0
Channel				372500	376500	389500		
Frequency (MHz)				1892.5	1882.5	1902.5		
25	QPSK	1	1	18.22	18.15	18.11	17.0	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1895		
20	QPSK	1	1	18.21	18.19	18.10	17.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1827.5	1882.5	1892.5		
15	QPSK	1	1	18.15	18.13	18.01	17.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1882.5	1810		
10	QPSK	1	1	18.22	18.28	18.03	17.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	18.15	18.24	18.02	17.0	0.0

n66 Ant 4 DSI3 sig path: 174								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	355000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	14.84	14.93	14.88		
40	PI/2 BPSK	1	108	14.82	14.84	14.80	15.5	0.0
40	PI/2 BPSK	1	214	14.98	14.85	14.83		
40	PI/2 BPSK	108	0	14.85	14.78	14.80	15.5	0.0
40	PI/2 BPSK	108	54	14.76	14.90	14.71	15.5	0.0
40	PI/2 BPSK	108	108	14.75	14.87	14.75	15.5	0.0
40	PI/2 BPSK	216	0	14.73	14.90	14.89		
40	QPSK	1	1	14.74	14.89	14.85		
40	QPSK	1	108	14.77	14.80	14.82	15.5	0.0
40	QPSK	1	214	14.78	14.95	14.87		
40	QPSK	108	0	14.76	14.86	14.88	15.5	0.0
40	QPSK	108	54	14.58	14.98	14.86	15.5	0.0
40	QPSK	108	108	14.76	14.78	14.85		
40	QPSK	216	0	14.69	14.80	14.78	15.5	0.0
40	16QAM	1	1	14.81	14.67	14.54	15.5	0.0
40	16QAM	1	1	14.58	14.76	14.60	15.5	0.0
40	256QAM	1	1	14.91	14.67	14.73	15.5	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	14.87	14.83	14.77	15.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	14.80	14.85	14.72	15.5	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	14.70	14.91	14.70	15.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1795		
10	QPSK	1	1	14.60	14.94	14.77	15.5	0.0
Channel				342500	349000	356000		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	14.85	14.87	14.78	15.5	0.0



n66 Ant 4 DSI3 sig path: 432							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				349000	349000	350000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	14.76	14.78	14.76	
40	PI/2 BPSK	1	108	14.70	14.64	14.47	15.5
40	PI/2 BPSK	1	214	14.49	14.67	14.44	
40	PI/2 BPSK	108	0	14.58	14.83	14.71	15.5
40	PI/2 BPSK	108	54	14.68	14.75	14.55	15.5
40	PI/2 BPSK	108	108	14.64	14.74	14.57	15.5
40	PI/2 BPSK	216	0	14.63	14.78	14.80	
40	QPSK	1	1	14.61	14.80	14.72	
40	QPSK	1	108	14.58	14.59	14.81	15.5
40	QPSK	1	214	14.62	14.76	14.75	
40	QPSK	108	0	14.58	14.67	14.75	15.5
40	QPSK	108	54	14.51	14.84	14.61	15.5
40	QPSK	108	108	14.85	14.59	14.67	15.5
40	QPSK	216	0	14.62	14.73	14.68	
40	16QAM	1	1	14.50	14.56	14.35	15.5
40	16QAM	1	1	14.47	14.68	14.42	15.5
40	256QAM	1	1	14.85	14.45	14.57	15.5
Channel				349000	349000	350000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	14.49	14.77	14.60	15.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	14.43	14.89	14.51	15.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	14.58	14.74	14.59	15.5
Channel				343000	349000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	14.53	14.82	14.62	15.5
Channel				342500	349000	350500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	14.58	14.79	14.68	15.5

n71 Ant 4 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				136600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.87	22.98	22.92	
20	PI/2 BPSK	1	53	22.78	22.91	22.83	23.5
20	PI/2 BPSK	1	104	22.68	22.78	22.83	
20	PI/2 BPSK	50	0	22.46	22.57	22.48	23.0
20	PI/2 BPSK	50	28	22.86	22.95	22.89	23.5
20	PI/2 BPSK	50	56	22.34	22.45	22.39	23.0
20	PI/2 BPSK	100	0	22.42	22.57	22.47	
20	QPSK	1	1	22.91	23.05	22.97	
20	QPSK	1	53	22.80	22.92	22.86	23.5
20	QPSK	1	104	22.88	22.76	22.70	
20	QPSK	50	0	21.86	21.96	21.81	22.5
20	QPSK	50	28	22.92	22.97	22.80	23.5
20	QPSK	50	56	21.85	21.85	21.88	22.5
20	QPSK	100	0	22.00	22.07	22.01	
20	16QAM	1	1	22.31	22.37	22.23	22.5
20	16QAM	1	1	20.18	20.30	20.25	21.0
20	256QAM	1	1	18.85	18.73	18.65	19.0
Channel				134100	134100	134100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.83	22.94	22.92	23.5
Channel				133600	136100	138600	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	1	22.85	22.89	22.86	23.5
Channel				133100	136100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.78	22.91	22.86	23.5



Part270 n77 Ant 5 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3840	3930		
100	PI2 BPSK	1	1	12.56	12.56	12.61		
100	PI2 BPSK	1	137	12.54	12.62	12.43	13.0	0.0
100	PI2 BPSK	1	271	12.27	12.44	12.35		
100	PI2 BPSK	135	0	12.47	12.58	12.54	13.0	0.0
100	PI2 BPSK	135	69	12.55	12.61	12.48	13.0	0.0
100	PI2 BPSK	135	138	12.35	12.50	12.48	13.0	0.0
100	PI2 BPSK	270	0	12.49	12.61	12.47		
100	QPSK	1	1	12.43	12.63	12.49		
100	QPSK	1	137	12.47	12.50	12.53	13.0	0.0
100	QPSK	1	271	12.43	12.62	12.53		
100	QPSK	135	0	12.54	12.44	12.52	13.0	0.0
100	QPSK	135	69	12.36	12.59	12.38	13.0	0.0
100	QPSK	135	138	12.35	12.44	12.41	13.0	0.0
100	QPSK	270	0	12.38	12.45	12.43		
100	16QAM	1	1	12.38	12.34	12.29	13.0	0.0
100	64QAM	1	1	12.40	12.45	12.24	13.0	0.0
100	256QAM	1	1	12.62	12.16	12.43	13.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	652668		
90	QPSK	1	1	12.33	12.53	12.32	13.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	652668		
80	QPSK	1	1	12.29	12.51	12.43	13.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	653000		
70	QPSK	1	1	12.41	12.57	12.44	13.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	653334		
60	QPSK	1	1	12.40	12.54	12.31	13.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	653668		
50	QPSK	1	1	12.37	12.55	12.47	13.0	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	12.29	12.51	12.37	13.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	654334		
30	QPSK	1	1	12.30	12.54	12.33	13.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	654668		
20	QPSK	1	1	12.34	12.80	12.35	13.0	0.0

Part270 n77 PC2 Ant 5 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3840	3930		
100	PI2 BPSK	1	1	15.48	15.46	15.58		
100	PI2 BPSK	1	137	15.50	15.48	15.32	16.0	0.0
100	PI2 BPSK	1	271	15.11	15.28	15.31		
100	PI2 BPSK	135	0	15.40	15.44	15.40	16.0	0.0
100	PI2 BPSK	135	69	15.39	15.54	15.41	16.0	0.0
100	PI2 BPSK	135	138	15.26	15.42	15.37	16.0	0.0
100	PI2 BPSK	270	0	15.36	15.44	15.31		
100	QPSK	1	1	15.37	15.59	15.42		
100	QPSK	1	137	15.32	15.37	15.50	16.0	0.0
100	QPSK	1	271	15.39	15.58	15.42		
100	QPSK	135	0	15.38	15.29	15.48	16.0	0.0
100	QPSK	135	69	15.23	15.54	15.29	16.0	0.0
100	QPSK	135	138	15.39	15.45	15.30	16.0	0.0
100	QPSK	270	0	15.32	15.35	15.31		
100	16QAM	1	1	15.24	15.28	15.17	16.0	0.0
100	64QAM	1	1	15.36	15.33	15.15	16.0	0.0
100	256QAM	1	1	15.45	15.11	15.41	16.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	653334		
90	QPSK	1	1	15.32	15.54	15.27	16.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	652668		
80	QPSK	1	1	15.31	15.43	15.39	16.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	653000		
70	QPSK	1	1	15.25	15.42	15.28	16.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	653334		
60	QPSK	1	1	15.27	15.51	15.36	16.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	653668		
50	QPSK	1	1	15.22	15.49	15.35	16.0	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	15.25	15.51	15.39	16.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	654334		
30	QPSK	1	1	15.26	15.51	15.40	16.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	654668		
20	QPSK	1	1	15.27	15.51	15.36	16.0	0.0

Part27Q n77 Ant 5 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63000	Power Middle Ch. / Freq. 63332	Power High Ch. / Freq. 63668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3499.98				
100	PI2 BPSK	1	1	11.96				
100	PI2 BPSK	1	137	11.94			13.0	0.0
100	PI2 BPSK	1	271	11.95				
100	PI2 BPSK	135	0	12.00			13.0	0.0
100	PI2 BPSK	135	69	12.02			13.0	0.0
100	PI2 BPSK	135	138	11.96			13.0	0.0
100	PI2 BPSK	270	0	11.93				
100	QPSK	1	1	12.10				
100	QPSK	1	137	11.89			13.0	0.0
100	QPSK	1	271	11.98				
100	QPSK	135	0	11.94			13.0	0.0
100	QPSK	135	69	12.08			13.0	0.0
100	QPSK	135	138	11.90			13.0	0.0
100	QPSK	270	0	11.95				
100	16QAM	1	1	11.88			13.0	0.0
100	64QAM	1	1	11.87			13.0	0.0
100	256QAM	1	1	11.67			13.0	0.0
Channel								
Frequency (MHz)								
				633000	63332	63368		
90	QPSK	1	1	11.88	12.03	11.74	13.0	0.0
Channel								
Frequency (MHz)								
				632668	63332	634000		
80	QPSK	1	1	11.77	12.01	11.80	13.0	0.0
Channel								
Frequency (MHz)								
				632334	63332	63432		
70	QPSK	1	1	11.89	12.01	11.89	13.0	0.0
Channel								
Frequency (MHz)								
				632000	63332	634668		
60	QPSK	1	1	11.89	12.02	11.75	13.0	0.0
Channel								
Frequency (MHz)								
				631668	63332	635000		
50	QPSK	1	1	11.89	12.08	11.74	13.0	0.0
Channel								
Frequency (MHz)								
				631334	63332	63532		
40	QPSK	1	1	11.87	11.93	11.84	13.0	0.0
Channel								
Frequency (MHz)								
				631000	63332	635668		
30	QPSK	1	1	11.87	12.05	11.83	13.0	0.0
Channel								
Frequency (MHz)								
				630668	63332	636000		
20	QPSK	1	1	11.78	11.98	11.83	13.0	0.0



Part27Q n77 PC2 Ant 5 DS13

BW [MHz]	Modulation	RB 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	14.91	14.91			
100	PI2 BPSK	1	137	14.98	14.98			0.0
100	PI2 BPSK	1	271	14.95	14.95		16.0	0.0
100	PI2 BPSK	135	69	15.02	15.02		16.0	0.0
100	PI2 BPSK	135	69	14.97	14.97		16.0	0.0
100	PI2 BPSK	135	138	14.89	14.89		16.0	0.0
100	PI2 BPSK	270	0	14.93	14.93		16.0	0.0
100	QPSK	1	1	15.10	15.10		16.0	0.0
100	QPSK	1	137	14.90	14.90		16.0	0.0
100	QPSK	1	271	15.00	15.00		16.0	0.0
100	QPSK	135	0	15.01	15.01		16.0	0.0
100	QPSK	135	69	15.07	15.07		16.0	0.0
100	QPSK	135	138	14.96	14.96		16.0	0.0
100	QPSK	270	0	15.01	15.01		16.0	0.0
100	16QAM	1	1	14.92	14.92		16.0	0.0
100	64QAM	1	1	14.94	14.94		16.0	0.0
100	256QAM	1	1	14.85	14.85		16.0	0.0
Channel								
Frequency (MHz)								
63200				63300	63300			
3495	QPSK	1	1	14.81	14.96	14.75	16.0	0.0
Channel								
Frequency (MHz)								
632668				63332	63400			
3490.02	QPSK	1	1	14.89	15.00	14.79	16.0	0.0
Channel								
Frequency (MHz)								
632334				63332	63432			
3485.01	QPSK	1	1	14.93	14.98	14.71	16.0	0.0
Channel								
Frequency (MHz)								
632000				63332	63466			
3480	QPSK	1	1	14.88	14.97	14.67	16.0	0.0
Channel								
Frequency (MHz)								
631668				63332	63500			
3475.02	QPSK	1	1	14.90	15.08	14.70	16.0	0.0
Channel								
Frequency (MHz)								
631324				63332	63532			
3470.01	QPSK	1	1	14.92	15.02	14.79	16.0	0.0
Channel								
Frequency (MHz)								
631000				63332	63566			
3465	QPSK	1	1	14.90	15.05	14.67	16.0	0.0
Channel								
Frequency (MHz)								
630668				63332	63600			
3460.02	QPSK	1	1	14.81	14.98	14.77	16.0	0.0

Part27O n78 Ant 5 DS13

BW [MHz]	Modulation	RB 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	12.81	12.81			
100	PI2 BPSK	1	137	12.35	12.35		13.0	0.0
100	PI2 BPSK	1	271	12.47	12.47		13.0	0.0
100	PI2 BPSK	135	0	12.56	12.56		13.0	0.0
100	PI2 BPSK	135	69	12.59	12.59		13.0	0.0
100	PI2 BPSK	135	138	12.58	12.58		13.0	0.0
100	PI2 BPSK	270	0	12.81	12.81		13.0	0.0
100	QPSK	1	1	12.88	12.88		13.0	0.0
100	QPSK	1	137	12.80	12.80		13.0	0.0
100	QPSK	1	271	12.82	12.82		13.0	0.0
100	QPSK	135	0	12.51	12.51		13.0	0.0
100	QPSK	135	69	12.56	12.56		13.0	0.0
100	QPSK	135	138	12.47	12.47		13.0	0.0
100	QPSK	270	0	12.52	12.52		13.0	0.0
100	16QAM	1	1	12.34	12.34		13.0	0.0
100	64QAM	1	1	12.34	12.34		13.0	0.0
100	256QAM	1	1	12.21	12.21		13.0	0.0
Channel								
Frequency (MHz)								
649668				65000	65034			
12.50	QPSK	1	1	12.50	12.64	12.54	13.0	0.0
Channel								
Frequency (MHz)								
649334				65000	65066			
12.50	QPSK	1	1	12.50	12.52	12.55	13.0	0.0
Channel								
Frequency (MHz)								
649000				65000	65100			
3735	QPSK	1	1	12.41	12.65	12.53	13.0	0.0
Channel								
Frequency (MHz)								
648668				65000	65134			
3730.02	QPSK	1	1	12.43	12.57	12.47	13.0	0.0
Channel								
Frequency (MHz)								
648334				65000	65166			
3725.01	QPSK	1	1	12.47	12.57	12.47	13.0	0.0
Channel								
Frequency (MHz)								
648000				65000	65200			
3720	QPSK	1	1	12.48	12.57	12.51	13.0	0.0
Channel								
Frequency (MHz)								
647668				65000	65234			
3715.02	QPSK	1	1	12.51	12.50	12.53	13.0	0.0
Channel								
Frequency (MHz)								
647334				65000	65266			
3710.01	QPSK	1	1	12.43	12.51	12.48	13.0	0.0

Part27O n78 PC2 Ant 5 DS13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.43	15.43			
100	PI2 BPSK	1	137	15.40	15.40		16.0	0.0
100	PI2 BPSK	1	271	15.40	15.40		16.0	0.0
100	PI2 BPSK	135	0	15.53	15.53		16.0	0.0
100	PI2 BPSK	135	69	15.49	15.49		16.0	0.0
100	PI2 BPSK	135	138	15.53	15.53		16.0	0.0
100	PI2 BPSK	270	0	15.45	15.45		16.0	0.0
100	QPSK	1	1	15.02	15.02		16.0	0.0
100	QPSK	1	137	15.51	15.51		16.0	0.0
100	QPSK	1	271	15.45	15.45		16.0	0.0
100	QPSK	135	0	15.45	15.45		16.0	0.0
100	QPSK	135	69	15.55	15.55		16.0	0.0
100	QPSK	135	138	15.34	15.34		16.0	0.0
100	QPSK	270	0	15.38	15.38		16.0	0.0
100	16QAM	1	1	15.22	15.22		16.0	0.0
100	64QAM	1	1	15.47	15.47		16.0	0.0
100	256QAM	1	1	15.08	15.08		16.0	0.0
Channel								
Frequency (MHz)								
649668				65000	65034			
15.39	QPSK	1	1	15.40	15.56	15.39	16.0	0.0
Channel								
Frequency (MHz)								
649334				65000	65066			
15.39	QPSK	1	1	15.39	15.48	15.40	16.0	0.0
Channel								
Frequency (MHz)								
649000				65000	65100			
15.37	QPSK	1	1	15.32	15.48	15.41	16.0	0.0
Channel								
Frequency (MHz)								
648668				65000	65134			
15.37	QPSK	1	1	15.35	15.53	15.43	16.0	0.0
Channel								
Frequency (MHz)								
648334				65000	65166			
15.45	QPSK	1	1	15.45	15.60	15.46	16.0	0.0
Channel								
Frequency (MHz)								
648000				65000	65200			
15.42	QPSK	1	1	15.42	15.51	15.47	16.0	0.0
Channel								
Frequency (MHz)								
647668				65000	65234			
15.42	QPSK	1	1	15.42	15.53	15.45	16.0	0.0
Channel								
Frequency (MHz)								
647334				65000	65266			
15.37	QPSK	1	1	15.34	15.55	15.37	16.0	0.0



Part27Q n78 Ant 5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		12.54				
100	PI2 BPSK	1	137		12.52		13.0	0.0	
100	PI2 BPSK	1	271		12.46		13.0	0.0	
100	PI2 BPSK	135	0		12.53		13.0	0.0	
100	PI2 BPSK	135	69		12.57		13.0	0.0	
100	PI2 BPSK	135	138		12.52		13.0	0.0	
100	PI2 BPSK	270	0		12.59		13.0	0.0	
100	QPSK	1	1		12.67		13.0	0.0	
100	QPSK	1	137		12.56		13.0	0.0	
100	QPSK	1	271		12.49		13.0	0.0	
100	QPSK	135	0		12.49		13.0	0.0	
100	QPSK	135	69		12.62		13.0	0.0	
100	QPSK	135	138		12.44		13.0	0.0	
100	QPSK	270	0		12.50		13.0	0.0	
100	16QAM	1	1		12.30		13.0	0.0	
100	64QAM	1	1		12.39		13.0	0.0	
100	256QAM	1	1		12.19		13.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	13.0	0.0	
90	QPSK	1	1	12.28	12.62	12.36	13.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	13.0	0.0	
80	QPSK	1	1	12.33	12.61	12.49	13.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01	13.0	0.0	
70	QPSK	1	1	12.20	12.56	12.34	13.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	13.0	0.0	
60	QPSK	1	1	12.21	12.60	12.45	13.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505	13.0	0.0	
50	QPSK	1	1	12.29	12.63	12.47	13.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	13.0	0.0	
40	QPSK	1	1	12.28	12.53	12.47	13.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	13.0	0.0	
30	QPSK	1	1	12.20	12.54	12.34	13.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	13.0	0.0	
20	QPSK	1	1	12.19	12.62	12.49	13.0	0.0	

Part27Q n78 PC2 Ant 5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		15.46				
100	PI2 BPSK	1	137		15.53		16.0	0.0	
100	PI2 BPSK	1	271		15.49		16.0	0.0	
100	PI2 BPSK	135	0		15.43		16.0	0.0	
100	PI2 BPSK	135	69		15.50		16.0	0.0	
100	PI2 BPSK	135	138		15.42		16.0	0.0	
100	PI2 BPSK	270	0		15.56		16.0	0.0	
100	QPSK	1	1		15.60		16.0	0.0	
100	QPSK	1	137		15.51		16.0	0.0	
100	QPSK	1	271		15.45		16.0	0.0	
100	QPSK	135	0		15.42		16.0	0.0	
100	QPSK	135	69		15.56		16.0	0.0	
100	QPSK	135	138		15.40		16.0	0.0	
100	QPSK	270	0		15.45		16.0	0.0	
100	16QAM	1	1		15.19		16.0	0.0	
100	64QAM	1	1		15.34		16.0	0.0	
100	256QAM	1	1		15.15		16.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	16.0	0.0	
90	QPSK	1	1	15.21	15.58	15.34	16.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	16.0	0.0	
80	QPSK	1	1	15.25	15.55	15.30	16.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01	16.0	0.0	
70	QPSK	1	1	15.31	15.59	15.27	16.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	16.0	0.0	
60	QPSK	1	1	15.17	15.56	15.39	16.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505	16.0	0.0	
50	QPSK	1	1	15.31	15.53	15.38	16.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	16.0	0.0	
40	QPSK	1	1	15.25	15.55	15.32	16.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	16.0	0.0	
30	QPSK	1	1	15.33	15.53	15.29	16.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	16.0	0.0	
20	QPSK	1	1	15.29	15.59	15.32	16.0	0.0	



Reduced Power Mode for Main PA DS14

n2 Ant 0 DS14 sig path: 164

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1800	1800	1900		
20	PI2 BPSK	1	1	23.16	23.20	23.20		
20	PI2 BPSK	1	53	23.07	23.16	22.97	24.0	0.0
20	PI2 BPSK	1	104	22.95	23.09	23.09		
20	PI2 BPSK	50	0	22.60	22.76	22.73	23.5	0.5
20	PI2 BPSK	50	28	23.07	23.16	23.05	24.0	0.0
20	PI2 BPSK	50	56	22.98	22.76	22.67		
20	PI2 BPSK	100	0	22.67	22.61	22.66	23.5	0.5
20	QPSK	1	1	23.10	23.23	23.13		
20	QPSK	1	53	23.03	23.16	23.15	24.0	0.0
20	QPSK	1	104	23.07	23.21	23.10		
20	QPSK	50	0	22.23	22.32	22.25	23.0	1.0
20	QPSK	50	28	22.85	23.12	23.03	24.0	0.0
20	QPSK	50	56	22.23	22.24	22.22		
20	QPSK	100	0	22.13	22.32	22.21	23.0	1.0
20	16QAM	1	1	22.47	22.53	22.42	23.0	1.0
20	64QAM	1	1	20.55	20.69	20.50	21.5	2.5
20	256QAM	1	1	18.75	18.83	18.83	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.93	23.05	22.97	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.07	23.16	22.96	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.63	23.04	23.00	24.0	0.0

n2 Ant 0 DS14 sig path: 429

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1800	1800	1900		
20	PI2 BPSK	1	1	23.07	23.16	23.12		
20	PI2 BPSK	1	53	23.03	23.22	23.21	24.0	0.0
20	PI2 BPSK	1	104	22.94	23.09	22.96		
20	PI2 BPSK	50	0	22.53	22.72	22.66	23.5	0.5
20	PI2 BPSK	50	28	22.99	23.17	23.04	24.0	0.0
20	PI2 BPSK	50	56	22.70	22.80	22.68		
20	PI2 BPSK	100	0	22.68	22.80	22.77	23.5	0.5
20	QPSK	1	1	23.10	23.25	23.17		
20	QPSK	1	53	23.01	23.13	22.97	24.0	0.0
20	QPSK	1	104	23.12	23.16	23.08		
20	QPSK	50	0	22.27	22.35	22.15	23.0	1.0
20	QPSK	50	28	23.14	23.21	23.10	24.0	0.0
20	QPSK	50	56	21.98	22.15	22.04		
20	QPSK	100	0	22.27	22.40	22.33	23.0	1.0
20	16QAM	1	1	22.41	22.52	22.44	23.0	1.0
20	64QAM	1	1	20.80	20.64	20.58	21.5	2.5
20	256QAM	1	1	18.72	18.83	18.65	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.92	23.19	23.00	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.02	23.21	23.09	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.98	23.09	23.06	24.0	0.0

n5 Ant 0 DS14 sig path: 168

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	835.5	835		
20	PI2 BPSK	1	1	23.12	23.13	23.09		
20	PI2 BPSK	1	53	23.07	23.11	23.01	24.0	0.0
20	PI2 BPSK	1	104	23.05	23.05	22.85		
20	PI2 BPSK	50	0	22.60	22.61	22.50	23.5	0.5
20	PI2 BPSK	50	28	22.91	22.97	22.60	24.0	0.0
20	PI2 BPSK	50	56	22.44	22.83	22.65		
20	PI2 BPSK	100	0	22.42	22.56	22.37	23.5	0.5
20	QPSK	1	1	23.20	23.22	23.14		
20	QPSK	1	53	23.07	23.11	23.11	24.0	0.0
20	QPSK	1	104	23.00	23.08	22.98		
20	QPSK	50	0	21.95	21.98	21.84	23.0	1.0
20	QPSK	50	28	22.85	22.95	22.92	24.0	0.0
20	QPSK	50	56	21.98	22.02	22.00		
20	QPSK	100	0	22.03	22.08	22.01	23.0	1.0
20	16QAM	1	1	22.01	22.02	22.00	23.0	1.0
20	64QAM	1	1	20.50	20.55	20.41	21.5	2.5
20	256QAM	1	1	18.34	18.56	18.51	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	835	841.5		
15	QPSK	1	1	23.00	23.12	23.06	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	835.5	844		
10	QPSK	1	1	23.12	23.17	23.09	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	835.5	842.5		
5	QPSK	1	1	23.00	23.05	23.03	24.0	0.0



n5 Ant 0 DSI4 sig path: 414

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.82	22.91	22.89	24.0	0.0
20	PI/2 BPSK	1	53	22.86	22.79	22.71		
20	PI/2 BPSK	1	104	22.87	22.82	22.79		
20	PI/2 BPSK	50	0	22.40	22.42	22.32	23.5	0.5
20	PI/2 BPSK	50	28	22.69	22.85	22.72	24.0	0.0
20	PI/2 BPSK	50	56	22.17	22.27	22.17		
20	PI/2 BPSK	100	0	22.15	22.32	22.20	23.5	0.5
20	QPSK	1	1	22.87	22.92	22.77		
20	QPSK	1	53	22.70	22.86	22.80	24.0	0.0
20	QPSK	1	104	22.82	22.84	22.81		
20	QPSK	50	0	21.81	21.85	21.74	23.0	1.0
20	QPSK	50	28	22.69	22.81	22.76	24.0	0.0
20	QPSK	50	56	21.82	21.77	21.64	23.0	1.0
20	QPSK	100	0	21.73	21.81	21.69		
20	16QAM	1	1	22.14	22.22	22.21	23.0	1.0
20	8QAM	1	1	20.01	20.09	19.94	21.5	2.5
20	25QAM	1	1	18.52	18.55	18.38	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.85	22.75	22.68	24.0	0.0
Channel				165500	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.75	22.75	22.69	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.76	22.84	22.61	24.0	0.0

n12 Ant 0 DSI4 sig path: 172

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				708.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.97	23.06	22.95	24.0	0.0
15	PI/2 BPSK	1	40	22.85	22.99	22.87		
15	PI/2 BPSK	1	77	22.88	23.02	22.91		
15	PI/2 BPSK	36	0	22.53	22.63	22.57	23.5	0.5
15	PI/2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI/2 BPSK	36	43	22.46	22.56	22.48		
15	PI/2 BPSK	75	0	22.46	22.57	22.51	23.5	0.5
15	QPSK	1	1	22.99	23.13	23.03		
15	QPSK	1	40	23.03	23.09	22.98	24.0	0.0
15	QPSK	1	77	22.93	23.05	22.93		
15	QPSK	36	0	21.97	22.03	21.96	23.0	1.0
15	QPSK	36	22	22.97	23.04	22.93	24.0	0.0
15	QPSK	36	43	21.88	21.93	21.87	23.0	1.0
15	QPSK	75	0	21.91	21.98	21.86		
15	16QAM	1	1	21.89	22.02	21.95	23.0	1.0
15	8QAM	1	1	20.54	20.65	20.51	21.5	2.5
15	25QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel				140300	141500	142100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.89	23.02	22.96	24.0	0.0

n12 Ant 0 DSI4 sig path: 417

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.81	22.85	22.82	24.0	0.0
15	PI/2 BPSK	1	40	22.86	22.78	22.66		
15	PI/2 BPSK	1	77	22.70	22.80	22.63		
15	PI/2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI/2 BPSK	36	22	22.76	22.79	22.74	24.0	0.0
15	PI/2 BPSK	36	43	22.26	22.37	22.29		
15	PI/2 BPSK	75	0	22.31	22.46	22.32	23.5	0.5
15	QPSK	1	1	22.92	22.83	22.88		
15	QPSK	1	40	22.82	22.78	22.73	24.0	0.0
15	QPSK	1	77	22.74	22.82	22.64		
15	QPSK	36	0	21.88	21.94	21.89	23.0	1.0
15	QPSK	36	22	22.80	22.83	22.88	24.0	0.0
15	QPSK	36	43	21.76	21.88	21.81	23.0	1.0
15	QPSK	75	0	21.80	21.96	21.86		
15	16QAM	1	1	22.20	22.24	22.13	23.0	1.0
15	8QAM	1	1	20.08	20.11	20.08	21.5	2.5
15	25QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel				140300	141500	142100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.90	22.76	22.79	24.0	0.0



n14 Ant 0 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
10	PI2 BPSK	1	1	22.91			24.0	0.0
10	PI2 BPSK	1	26	22.95				
10	PI2 BPSK	1	50	22.92				
10	PI2 BPSK	25	0	22.47			23.5	0.5
10	PI2 BPSK	25	14	23.01			24.0	0.0
10	PI2 BPSK	25	27	22.39			23.5	0.5
10	PI2 BPSK	50	0	22.33				
10	QPSK	1	1	23.08			24.0	0.0
10	QPSK	1	26	22.95				
10	QPSK	1	50	22.98				
10	QPSK	25	0	22.02			23.0	1.0
10	QPSK	25	14	22.98			24.0	0.0
10	QPSK	25	27	22.09			23.0	1.0
10	QPSK	50	0	22.13				
10	16QAM	1	1	22.11			23.0	1.0
10	64QAM	1	1	20.62			21.5	2.5
10	256QAM	1	1	18.63			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.88	22.99	22.98	24.0	0.0

n25 Ant 0 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				374000	376500	379000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1870	1882.5	1905		
40	PI2 BPSK	1	1	23.29	23.37	23.28	24.0	0.0
40	PI2 BPSK	1	108	23.23	23.35	23.28		
40	PI2 BPSK	1	214	23.10	23.23	23.14		
40	PI2 BPSK	108	0	22.87	22.97	22.89	23.5	0.5
40	PI2 BPSK	108	54	23.18	23.32	23.21	24.0	0.0
40	PI2 BPSK	108	108	22.81	22.94	22.87	23.5	0.5
40	PI2 BPSK	216	0	22.86	22.98	22.87		
40	QPSK	1	1	23.36	23.42	23.30	24.0	0.0
40	QPSK	1	108	23.25	23.33	23.20		
40	QPSK	1	214	23.21	23.27	23.19		
40	QPSK	108	0	22.40	22.47	22.38	23.0	1.0
40	QPSK	108	54	23.19	23.33	23.24	24.0	0.0
40	QPSK	108	108	22.30	22.38	22.28	23.0	1.0
40	QPSK	216	0	22.36	22.46	22.31		
40	16QAM	1	1	22.80	22.67	22.53	23.0	1.0
40	64QAM	1	1	20.70	20.82	20.73	21.5	2.5
40	256QAM	1	1	19.05	19.12	19.03	19.5	4.5
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	23.23	23.37	23.22	24.0	0.0
Channel				372000	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5		
25	QPSK	1	1	23.29	23.27	23.16	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	23.29	23.33	23.17	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	23.23	23.31	23.20	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.24	23.34	23.23	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	23.29	23.28	23.20	24.0	0.0

n26 Ant 0 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq		
Channel				164800	166300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.98	23.13	23.07	24.0	0.0
20	PI2 BPSK	1	53	22.97	23.11	22.99		
20	PI2 BPSK	1	104	22.98	23.08	22.93		
20	PI2 BPSK	50	0	22.87	22.77	22.63	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.11	23.03	24.0	0.0
20	PI2 BPSK	50	56	22.83	22.78	22.67	23.5	0.5
20	PI2 BPSK	100	0	22.89	22.78	22.67		
20	QPSK	1	1	23.12	23.17	23.09	24.0	0.0
20	QPSK	1	53	23.08	23.14	23.08		
20	QPSK	1	104	22.97	23.11	23.04		
20	QPSK	50	0	22.10	22.24	22.12	23.0	1.0
20	QPSK	50	28	23.06	23.15	23.07	24.0	0.0
20	QPSK	50	56	22.00	22.13	22.06	23.0	1.0
20	QPSK	100	0	22.19	22.28	22.19		
20	16QAM	1	1	22.29	22.42	22.28	23.0	1.0
20	64QAM	1	1	20.44	20.57	20.46	21.5	2.5
20	256QAM	1	1	18.72	18.86	18.81	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.98	23.11	22.96	24.0	0.0
Channel				163800	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.05	23.08	23.00	24.0	0.0
Channel				163300	166300	168900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.98	23.05	22.98	24.0	0.0



n66 Ant 0 DS14 sig path: 174

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.64	22.82	22.89	24.0	0.0
40	PI2 BPSK	1	108	22.81	22.85	22.72		
40	PI2 BPSK	1	214	22.51	22.83	22.54		
40	PI2 BPSK	108	0	22.33	22.46	22.27	23.5	0.5
40	PI2 BPSK	108	54	22.54	22.69	22.52	24.0	0.0
40	PI2 BPSK	108	108	22.09	22.29	22.21	23.5	0.5
40	PI2 BPSK	216	0	22.30	22.43	22.39		
40	QPSK	1	1	22.92	22.93	22.75	24.0	0.0
40	QPSK	1	108	22.67	22.86	22.85		
40	QPSK	1	214	22.53	22.61	22.46		
40	QPSK	108	0	21.86	21.99	21.85	23.0	1.0
40	QPSK	108	54	22.68	22.83	22.82	24.0	0.0
40	QPSK	108	108	21.72	21.80	21.73	23.0	1.0
40	QPSK	216	0	21.64	21.82	21.71		
40	16QAM	1	1	21.88	22.03	21.90	23.0	1.0
40	64QAM	1	1	19.88	20.07	19.82	21.5	2.5
40	256QAM	1	1	18.43	18.48	18.38	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.84	22.75	22.70	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.88	22.81	22.74	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.76	22.93	22.75	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.90	22.89	22.59	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.77	22.75	22.72	24.0	0.0

n66 Ant 0 DS14 sig path: 432

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.69	22.88	22.77	24.0	0.0
40	PI2 BPSK	1	108	22.56	22.89	22.56		
40	PI2 BPSK	1	214	22.27	22.47	22.43		
40	PI2 BPSK	108	0	22.22	22.31	22.25	23.5	0.5
40	PI2 BPSK	108	54	22.45	22.57	22.56	24.0	0.0
40	PI2 BPSK	108	108	22.06	22.11	22.06	23.5	0.5
40	PI2 BPSK	216	0	22.12	22.29	22.24		
40	QPSK	1	1	22.87	22.92	22.85	24.0	0.0
40	QPSK	1	108	22.64	22.71	22.63		
40	QPSK	1	214	22.42	22.48	22.43		
40	QPSK	108	0	21.85	21.91	21.80	23.0	1.0
40	QPSK	108	54	22.82	22.89	22.80	24.0	0.0
40	QPSK	108	108	21.50	21.62	21.59	23.0	1.0
40	QPSK	216	0	21.74	21.82	21.71		
40	16QAM	1	1	21.73	21.89	21.84	23.0	1.0
40	64QAM	1	1	20.02	20.04	19.95	21.5	2.5
40	256QAM	1	1	18.26	18.41	18.33	19.5	4.5
Channel				346000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.78	22.89	22.85	24.0	0.0
Channel				345500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.89	22.89	22.83	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.67	22.89	22.70	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.70	22.78	22.70	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.70	22.80	22.66	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
15	PI2 BPSK	1	1	22.58			24.0	0.0
15	PI2 BPSK	1	40	22.33				
15	PI2 BPSK	1	77	22.38				
15	PI2 BPSK	36	0	21.78			23.5	0.5
15	PI2 BPSK	36	22	22.24			24.0	0.0
15	PI2 BPSK	36	43	21.95			23.5	0.5
15	PI2 BPSK	75	0	21.77				
15	QPSK	1	1	22.58			24.0	0.0
15	QPSK	1	40	22.29				
15	QPSK	1	77	22.47				
15	QPSK	36	0	21.36			23.0	1.0
15	QPSK	36	22	22.45			24.0	0.0
15	QPSK	36	43	21.41			23.0	1.0
15	QPSK	75	0	21.45				
15	16QAM	1	1	21.82			23.0	1.0
15	64QAM	1	1	19.93			21.5	2.5
15	256QAM	1	1	18.16			19.5	4.5
Channel				346000	349000	351000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	22.44	22.53	22.48	24.0	0.0
Channel				335000	345000	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	22.40	22.45	22.39	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.21	23.12		
20	PI/2 BPSK	1	53	23.03	23.15	23.01	24.0	0.0
20	PI/2 BPSK	1	104	23.02	23.10	22.95		
20	PI/2 BPSK	50	0	22.67	22.73	22.84	23.5	0.5
20	PI/2 BPSK	50	28	23.01	23.11	23.04	24.0	0.0
20	PI/2 BPSK	50	56	22.52	22.62	22.57		
20	PI/2 BPSK	100	0	22.70	22.77	22.82	23.5	0.5
20	QPSK	1	1	23.13	23.24	23.18		
20	QPSK	1	53	23.10	23.21	23.15	24.0	0.0
20	QPSK	1	104	23.00	23.13	23.06		
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0
20	QPSK	50	28	23.06	23.18	23.06	24.0	0.0
20	QPSK	50	56	21.97	22.11	21.97		
20	QPSK	100	0	22.10	22.23	22.17	23.0	1.0
20	16QAM	1	1	22.27	22.47	22.39	23.0	1.0
20	16QAM	1	1	20.46	20.60	20.54	21.5	2.5
20	256QAM	1	1	18.87	18.99	18.94	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.86	23.10	23.04	24.0	0.0
Channel				130500	131500	132500		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.93	23.11	23.05	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				502000	507000	510000		
Frequency (MHz)				2530	2535	2550		
40	PI/2 BPSK	1	1	23.31	23.41	23.39		
40	PI/2 BPSK	1	108	23.21	23.35	23.29	24.0	0.0
40	PI/2 BPSK	1	214	23.20	23.31	23.19		
40	PI/2 BPSK	108	0	22.85	22.94	22.84	23.5	0.5
40	PI/2 BPSK	108	54	23.23	23.34	23.22	24.0	0.0
40	PI/2 BPSK	108	108	22.92	23.01	22.89	23.5	0.5
40	PI/2 BPSK	216	0	22.96	23.02	22.91		
40	QPSK	1	1	23.35	23.45	23.36		
40	QPSK	1	108	23.12	23.27	23.17	24.0	0.0
40	QPSK	1	214	23.25	23.37	23.29		
40	QPSK	108	0	22.38	22.42	22.30	23.0	1.0
40	QPSK	108	54	23.26	23.38	23.26	24.0	0.0
40	QPSK	108	108	22.37	22.44	22.33	23.0	1.0
40	QPSK	216	0	22.35	22.50	22.43	23.0	1.0
40	16QAM	1	1	22.43	22.51	22.37	23.0	1.0
40	16QAM	1	1	20.39	20.52	20.41	21.5	2.5
40	256QAM	1	1	18.81	18.84	18.83	19.5	4.5
Channel				503300	507000	510000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.23	23.36	23.29	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2527.5		
25	QPSK	1	1	23.23	23.31	23.22	24.0	0.0
Channel				502000	507000	510000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.29	23.37	23.27	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.27	23.35	23.25	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.27	23.40	23.30	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.28	23.40	23.27	24.0	0.0

n30 Ant 1 DSI4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				482000	482000	482000		
Frequency (MHz)				2310				
10	PI/2 BPSK	1	1		23.32			
10	PI/2 BPSK	1	26		23.26		24.0	0.0
10	PI/2 BPSK	1	50		23.22		23.5	0.5
10	PI/2 BPSK	25	0		22.79		23.5	0.5
10	PI/2 BPSK	25	14		23.22		24.0	0.0
10	PI/2 BPSK	25	27		22.78		23.5	0.5
10	PI/2 BPSK	50	0		22.83			
10	QPSK	1	1		23.38			
10	QPSK	1	26		23.31		24.0	0.0
10	QPSK	1	50		23.27			
10	QPSK	25	0		22.29		23.0	1.0
10	QPSK	25	14		23.32		24.0	0.0
10	QPSK	25	27		22.23		23.0	1.0
10	QPSK	50	0		22.27			
10	16QAM	1	1		22.20		23.0	1.0
10	16QAM	1	1		20.29		21.5	2.5
10	256QAM	1	1		18.74		19.5	4.5
Channel				481500	482000	482500		
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	23.22	23.25	23.21	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	22.09	22.78	22.40		
100	PI2 BPSK	1	137	22.39	22.46	22.40		0.0
100	PI2 BPSK	1	271	22.38	22.47	22.34		
100	PI2 BPSK	138	0	22.57	22.71	22.59	23.5	0.5
100	PI2 BPSK	138	69	22.43	22.52	22.41	24.0	0.0
100	PI2 BPSK	138	138	22.35	22.45	22.33	23.5	0.5
100	PI2 BPSK	270	0	22.35	22.46	22.33		
100	QPSK	1	1	22.88	22.95	22.86		
100	QPSK	1	137	22.46	22.59	22.52	24.0	0.0
100	QPSK	1	271	22.41	22.55	22.45		
100	QPSK	138	0	21.74	21.87	21.72	23.0	1.0
100	QPSK	138	69	22.74	22.89	22.74	24.0	0.0
100	QPSK	138	138	21.40	21.46	21.34	23.0	1.0
100	QPSK	270	0	21.42	21.53	21.40		
100	16QAM	1	1	21.80	21.88	21.75	23.0	1.0
100	16QAM	1	1	20.11	20.22	20.10	21.5	2.5
100	256QAM	1	1	18.33	18.47	18.38	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.74	22.81	22.72	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.74	22.85	22.75	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.73	22.85	22.77	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.73	22.84	22.76	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.75	22.88	22.79	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.77	22.83	22.79	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.79	22.85	22.80	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.74	22.80	22.79	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	25.82	25.88	25.76		
100	PI2 BPSK	1	137	25.76	25.85	25.71	27.0	0.0
100	PI2 BPSK	1	271	25.72	25.80	25.70		
100	PI2 BPSK	138	0	25.54	25.69	25.57	26.5	0.5
100	PI2 BPSK	138	69	25.71	25.82	25.68	27.0	0.0
100	PI2 BPSK	138	138	25.63	25.71	25.63	26.5	0.5
100	PI2 BPSK	270	0	25.70	25.77	25.64		
100	QPSK	1	1	25.85	25.92	25.79		
100	QPSK	1	137	25.74	25.87	25.75	27.0	0.0
100	QPSK	1	271	25.70	25.83	25.70		
100	QPSK	138	0	25.68	25.76	25.65	26.0	1.0
100	QPSK	138	69	25.75	25.85	25.72	27.0	0.0
100	QPSK	138	138	25.61	25.67	25.57	26.0	1.0
100	QPSK	270	0	25.65	25.76	25.67		
100	16QAM	1	1	25.59	25.66	25.58	26.0	1.0
100	16QAM	1	1	24.02	24.14	24.01	24.5	2.5
100	256QAM	1	1	21.83	21.97	21.85	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.73	25.85	25.72	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.73	25.79	25.69	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.78	25.82	25.68	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.77	25.81	25.73	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.73	25.82	25.65	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.75	25.87	25.73	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.71	25.85	25.70	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.77	25.79	25.72	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	19.25	19.34	19.27		
100	PI2 BPSK	1	137	19.16	19.29	19.18	21.0	0.0
100	PI2 BPSK	1	271	19.24	19.31	19.24		
100	PI2 BPSK	138	0	18.79	18.86	18.73	20.5	0.5
100	PI2 BPSK	138	69	19.19	19.30	19.16	21.0	0.0
100	PI2 BPSK	138	138	18.85	18.90	18.80	20.5	0.5
100	PI2 BPSK	270	0	18.87	18.99	18.81		
100	QPSK	1	1	19.35	19.41	19.30		
100	QPSK	1	137	19.21	19.35	19.28	21.0	0.0
100	QPSK	1	271	19.23	19.30	19.24		
100	QPSK	138	0	18.32	18.38	18.31	20.0	1.0
100	QPSK	138	69	19.28	19.33	19.20	21.0	0.0
100	QPSK	138	138	18.30	18.39	18.24	20.0	1.0
100	QPSK	270	0	18.33	18.43	18.23		
100	16QAM	1	1	18.01	18.11	18.06	20.0	1.0
100	16QAM	1	1	16.85	16.96	16.83	18.5	2.5
100	256QAM	1	1	14.68	14.78	14.71	16.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.22	19.28	19.18	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.28	19.30	19.21	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.28	19.34	19.22	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.23	19.29	19.18	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.24	19.34	19.22	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.28	19.29	19.17	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.29	19.35	19.25	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.20	19.31	19.19	21.0	0.0



Part270 n77 PC2 Ant 1 DS14

BW (MHz)	Modulation	RB 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	PI/2 BPSK	1	1	22.18	22.31	22.10		
100	PI/2 BPSK	1	137	22.13	22.23	22.08		
100	PI/2 BPSK	1	271	22.09	22.16	22.17	24.0	0.0
100	PI/2 BPSK	135	0	22.11	22.19	22.00	23.5	0.5
100	PI/2 BPSK	135	69	22.18	22.27	22.08	24.0	0.0
100	PI/2 BPSK	135	138	22.11	22.23	21.97	23.5	0.5
100	PI/2 BPSK	270	0	22.18	22.29	22.08		
100	QPSK	1	1	22.26	22.34	22.18		
100	QPSK	1	137	22.18	22.30	22.11	24.0	0.0
100	QPSK	1	271	22.15	22.20	22.04		
100	QPSK	135	0	21.79	21.98	21.92	23.0	1.0
100	QPSK	135	69	22.19	22.28	22.08	24.0	0.0
100	QPSK	135	138	21.89	21.85	21.82	23.0	1.0
100	QPSK	270	0	21.84	21.99	21.83		
100	16QAM	1	1	21.87	21.96	21.72	23.0	1.0
100	16QAM	1	1	20.46	20.42	20.37	21.5	2.5
100	256QAM	1	1	18.42	18.47	18.28	19.5	4.5
Channel								
Frequency (MHz)				6599	6590	6583		
90	QPSK	1	1	22.15	22.24	22.12	24.0	0.0
Channel								
Frequency (MHz)				649334	656000	652668		
80	QPSK	1	1	22.12	22.20	22.11	24.0	0.0
Channel								
Frequency (MHz)				649000	656000	653000		
70	QPSK	1	1	22.18	22.27	22.10	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	653334		
60	QPSK	1	1	22.18	22.27	22.06	24.0	0.0
Channel								
Frequency (MHz)				648334	656000	653668		
50	QPSK	1	1	22.18	22.22	22.04	24.0	0.0
Channel								
Frequency (MHz)				3729	3840	3960		
40	QPSK	1	1	22.18	22.29	22.13	24.0	0.0
Channel								
Frequency (MHz)				647668	656000	654334		
30	QPSK	1	1	22.15	22.21	22.03	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	654668		
20	QPSK	1	1	22.24	22.29	22.22	24.0	0.0

Part27Q n77 Ant 1 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1		20.43			
100	PI/2 BPSK	1	137		20.39		21.0	0.0
100	PI/2 BPSK	1	271		20.21		20.5	0.5
100	PI/2 BPSK	135	0		19.87		20.5	0.5
100	PI/2 BPSK	135	69		20.38		21.0	0.0
100	PI/2 BPSK	135	138		19.81		20.5	0.5
100	PI/2 BPSK	270	0		19.83			
100	QPSK	1	1		20.47		21.0	0.0
100	QPSK	1	137		20.41			
100	QPSK	1	271		20.32			
100	QPSK	135	0		19.38		20.0	1.0
100	QPSK	135	69		20.41		21.0	0.0
100	QPSK	135	138		19.26		20.0	1.0
100	QPSK	270	0		19.33			
100	16QAM	1	1		19.36		20.0	1.0
100	16QAM	1	1		17.87		18.5	2.5
100	256QAM	1	1		15.74		16.5	4.5
Channel								
Frequency (MHz)				633000	633332	633668		
90	QPSK	1	1	20.32	20.39	20.35	21.0	0.0
Channel								
Frequency (MHz)				632668	633332	634000		
80	QPSK	1	1	20.20	20.42	20.27	21.0	0.0
Channel								
Frequency (MHz)				632334	633332	634332		
70	QPSK	1	1	20.35	20.32	20.33	21.0	0.0
Channel								
Frequency (MHz)				632000	633332	634668		
60	QPSK	1	1	20.33	20.41	20.27	21.0	0.0
Channel								
Frequency (MHz)				631668	633332	635000		
50	QPSK	1	1	20.38	20.32	20.30	21.0	0.0
Channel								
Frequency (MHz)				3490	3499.98	3519.99		
40	QPSK	1	1	20.29	20.42	20.30	21.0	0.0
Channel								
Frequency (MHz)				631000	633332	635668		
30	QPSK	1	1	20.31	20.35	20.25	21.0	0.0
Channel								
Frequency (MHz)				630668	633332	636000		
20	QPSK	1	1	20.31	20.34	20.29	21.0	0.0

Part27Q n77 PC2 Ant 1 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1		23.35			
100	PI/2 BPSK	1	137		23.27		24.0	0.0
100	PI/2 BPSK	1	271		23.02		23.5	0.5
100	PI/2 BPSK	135	0		23.28		23.5	0.5
100	PI/2 BPSK	135	69		23.30		24.0	0.0
100	PI/2 BPSK	135	138		22.98		23.5	0.5
100	PI/2 BPSK	270	0		23.03			
100	QPSK	1	1		23.36			
100	QPSK	1	137		23.31		24.0	0.0
100	QPSK	1	271		22.78			
100	QPSK	135	0		22.11		23.0	1.0
100	QPSK	135	69		23.32		24.0	0.0
100	QPSK	135	138		22.79		23.0	1.0
100	QPSK	270	0		22.84			
100	16QAM	1	1		22.34		23.0	1.0
100	16QAM	1	1		21.46		21.5	2.5
100	256QAM	1	1		18.51		19.5	4.5
Channel								
Frequency (MHz)				633000	633332	633668		
90	QPSK	1	1	23.22	23.29	23.17	24.0	0.0
Channel								
Frequency (MHz)				632668	633332	634000		
80	QPSK	1	1	23.19	23.27	23.24	24.0	0.0
Channel								
Frequency (MHz)				632334	633332	634332		
70	QPSK	1	1	23.22	23.32	23.23	24.0	0.0
Channel								
Frequency (MHz)				632000	633332	634668		
60	QPSK	1	1	23.28	23.29	23.25	24.0	0.0
Channel								
Frequency (MHz)				631668	633332	635000		
50	QPSK	1	1	23.25	23.31	23.24	24.0	0.0
Channel								
Frequency (MHz)				3490	3499.98	3519.99		
40	QPSK	1	1	23.21	23.27	23.16	24.0	0.0
Channel								
Frequency (MHz)				631000	633332	635668		
30	QPSK	1	1	23.24	23.29	23.15	24.0	0.0
Channel								
Frequency (MHz)				630668	633332	636000		
20	QPSK	1	1	23.21	23.30	23.25	24.0	0.0



Part27Q n78 PC2 Ant 1 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		23.67			
100	PI2 BPSK	1	137		23.63		24.0	0.0
100	PI2 BPSK	1	271		23.15		23.5	0.5
100	PI2 BPSK	135	0		23.15		24.0	0.0
100	PI2 BPSK	135	69		23.62		23.5	0.5
100	PI2 BPSK	135	138		23.41		23.0	1.0
100	PI2 BPSK	270	0		23.48		23.0	1.0
100	QPSK	1	1		23.72		24.0	0.0
100	QPSK	1	137		23.69		23.0	1.0
100	QPSK	1	271		23.18		23.0	1.0
100	QPSK	135	0		22.78		23.0	1.0
100	QPSK	135	69		23.67		23.0	1.0
100	QPSK	135	138		22.86		23.0	1.0
100	QPSK	270	0		22.95		23.0	1.0
100	16QAM	1	1		22.75		23.0	1.0
100	16QAM	1	1		20.63		21.5	2.5
100	256QAM	1	1		18.74		19.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	23.58	23.63	23.53	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.53	23.63	23.59	24.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.59	23.64	23.52	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.58	23.61	23.54	24.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.57	23.68	23.52	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.61	23.68	23.57	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.59	23.64	23.52	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.59	23.60	23.55	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.88	20.99	21.03		
100	PI2 BPSK	1	137	20.81	20.87	20.88		0.0
100	PI2 BPSK	1	271	20.83	21.03	20.77		
100	PI2 BPSK	135	0	20.90	21.05	20.89	22.0	0.0
100	PI2 BPSK	135	69	20.79	20.98	20.81	22.0	0.0
100	PI2 BPSK	135	138	20.97	21.05	20.98	22.0	0.0
100	PI2 BPSK	270	0	21.03	21.03	20.99		
100	QPSK	1	1	20.99	21.09	20.97		
100	QPSK	1	137	20.75	20.92	20.81	22.0	0.0
100	QPSK	1	271	20.91	20.88	20.83		
100	QPSK	135	0	20.91	21.02	20.82	22.0	0.0
100	QPSK	135	69	20.92	21.05	20.89	22.0	0.0
100	QPSK	135	138	20.86	20.92	20.88	22.0	0.0
100	QPSK	270	0	20.90	20.97	20.91		
100	16QAM	1	1	20.99	21.01	21.03	22.0	0.0
100	64QAM	1	1	20.41	20.54	20.23	21.5	0.5
100	256QAM	1	1	18.50	18.88	18.32	19.5	2.5
Channel								
Frequency (MHz)				5020.00	518598	534998	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.90	21.00	20.85	22.0	0.0
Channel								
Frequency (MHz)				507204	518598	529598	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.98	21.00	20.84	22.0	0.0
Channel								
Frequency (MHz)				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.94	21.00	20.83	22.0	0.0
Channel								
Frequency (MHz)				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.88	21.01	20.82	22.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.88	20.98	20.88	22.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.94	20.93	20.90	22.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.92	20.99	20.81	22.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.89	20.98	20.82	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.87	24.03	23.98		
100	PI2 BPSK	1	137	23.83	23.82	23.84	25.0	0.0
100	PI2 BPSK	1	271	23.79	24.06	23.77		
100	PI2 BPSK	135	0	23.92	23.99	23.88	25.0	0.0
100	PI2 BPSK	135	69	23.83	24.00	23.83	25.0	0.0
100	PI2 BPSK	135	138	23.96	24.02	23.92	25.0	0.0
100	PI2 BPSK	270	0	23.98	24.01	24.02		
100	QPSK	1	1	23.97	24.14	23.96		
100	QPSK	1	137	23.73	23.96	23.78	25.0	0.0
100	QPSK	1	271	23.85	23.85	23.80		
100	QPSK	135	0	23.94	24.03	23.82	25.0	0.0
100	QPSK	135	69	23.91	24.09	23.84	25.0	0.0
100	QPSK	135	138	23.81	23.96	23.88	25.0	0.0
100	QPSK	270	0	23.87	23.98	23.88		
100	16QAM	1	1	24.01	23.97	24.03	25.0	0.0
100	64QAM	1	1	23.92	23.98	23.84	24.5	0.5
100	256QAM	1	1	21.92	21.88	21.76	22.5	2.5
Channel								
Frequency (MHz)				5020.00	518598	529598	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.90	24.00	23.83	25.0	0.0
Channel								
Frequency (MHz)				507204	518598	529598	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.94	23.99	23.87	25.0	0.0
Channel								
Frequency (MHz)				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.93	23.94	23.85	25.0	0.0
Channel								
Frequency (MHz)				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.89	23.97	23.80	25.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.91	24.01	23.82	25.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.85	23.94	23.88	25.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.95	24.05	23.89	25.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.89	24.04	23.82	25.0	0.0

Part270 n77 Ant2 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	15.16	15.36	15.27		
100	PI2 BPSK	1	137	15.11	15.24	15.20	16.5	0.0
100	PI2 BPSK	1	271	15.10	15.30	15.14		
100	PI2 BPSK	135	0	15.24	15.36	15.28	16.5	0.0
100	PI2 BPSK	135	69	15.06	15.22	15.03	16.5	0.0
100	PI2 BPSK	135	138	15.31	15.38	15.28	16.5	0.0
100	PI2 BPSK	270	0	15.34	15.33	15.27		
100	QPSK	1	1	15.24	15.41	15.36		
100	QPSK	1	137	15.04	15.24	15.12	16.5	0.0
100	QPSK	1	271	15.17	15.29	15.11		
100	QPSK	135	0	15.21	15.25	15.14	16.5	0.0
100	QPSK	135	69	15.13	15.35	15.20	16.5	0.0
100	QPSK	135	138	15.18	15.21	15.17	16.5	0.0
100	QPSK	270	0	15.21	15.28	15.21		
100	16QAM	1	1	15.27	15.32	15.28	16.5	0.0
100	64QAM	1	1	15.07	15.38	15.34	16.5	0.0
100	256QAM	1	1	14.48	15.17	15.07	16.5	0.0
Channel								
Frequency (MHz)				648334	656000	663334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	15.14	15.28	15.22	16.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.19	15.31	15.26	16.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.18	15.28	15.28	16.5	0.0
Channel								
Frequency (MHz)				648334	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.16	15.35	15.20	16.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.19	15.25	15.24	16.5	0.0
Channel								
Frequency (MHz)				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.10	15.31	15.22	16.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.19	15.33	15.22	16.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.14	15.31	15.29	16.5	0.0



Part270 n77 PC2 Ant2 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	18.18	18.34	18.24			
100	Pi/2 BPSK	1	137	18.06	18.29	18.19	19.5	0.0	
100	Pi/2 BPSK	1	271	18.08	18.27	18.09			
100	Pi/2 BPSK	135	0	18.21	18.32	18.33	19.5	0.0	
100	Pi/2 BPSK	135	69	18.02	18.26	18.08	19.5	0.0	
100	Pi/2 BPSK	135	138	18.27	18.37	18.25	19.5	0.0	
100	Pi/2 BPSK	270	0	18.35	18.32	18.30			
100	QPSK	1	1	18.25	18.40	18.37			
100	QPSK	1	137	18.07	18.25	18.15	19.5	0.0	
100	QPSK	1	271	18.19	18.27	18.05			
100	QPSK	135	0	18.19	18.26	18.08	19.5	0.0	
100	QPSK	135	69	18.09	18.29	18.25	19.5	0.0	
100	QPSK	135	138	18.15	18.17	18.10	19.5	0.0	
100	QPSK	270	0	18.13	18.21	18.12			
100	16QAM	1	1	18.31	18.26	18.28	19.5	0.0	
100	64QAM	1	1	18.17	18.33	18.33	19.5	0.0	
100	256QAM	1	1	17.94	18.20	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.12	18.23	18.18	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.09	18.29	18.21	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.14	18.31	18.22	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.10	18.26	18.22	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.05	18.28	18.25	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.16	18.24	18.24	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.11	18.31	18.25	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.18	18.34	18.21	19.5	0.0	

Part27Q n77 Ant2 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1		18.94				
100	Pi/2 BPSK	1	137		18.88		16.5	0.0	
100	Pi/2 BPSK	1	271		18.90				
100	Pi/2 BPSK	135	0		19.91		16.5	0.0	
100	Pi/2 BPSK	135	69		19.79		16.5	0.0	
100	Pi/2 BPSK	135	138		19.93		16.5	0.0	
100	Pi/2 BPSK	270	0		19.87				
100	QPSK	1	1		19.99				
100	QPSK	1	137		19.76		16.5	0.0	
100	QPSK	1	271		19.81				
100	QPSK	135	0		19.88		16.5	0.0	
100	QPSK	135	69		19.92		16.5	0.0	
100	QPSK	135	138		19.90		16.5	0.0	
100	QPSK	270	0		19.84				
100	16QAM	1	1		19.92		16.5	0.0	
100	64QAM	1	1		19.97		16.5	0.0	
100	256QAM	1	1		19.67		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3485	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.76	15.84	15.77	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.75	15.89	15.81	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3499.98	3525	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.73	15.82	15.77	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3485	3499.98	3524.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
0	QPSK	1	1	15.72	15.86	15.81	16.5	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	630888	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
0	QPSK	1	1	3460.02	3499.98	3540	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
0	QPSK	1	1	18.75	18.82	18.77	16.5	0.0	

Part27Q n77 PC2 Ant2 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1		18.98				
100	Pi/2 BPSK	1	137		18.87		19.5	0.0	
100	Pi/2 BPSK	1	271		18.86				
100	Pi/2 BPSK	135	0		19.87		19.5	0.0	
100	Pi/2 BPSK	135	69		19.71		19.5	0.0	
100	Pi/2 BPSK	135	138		19.93		19.5	0.0	
100	Pi/2 BPSK	270	0		19.86				
100	QPSK	1	1		19.97				
100	QPSK	1	137		19.68		19.5	0.0	
100	QPSK	1	271		19.74				
100	QPSK	135	0		19.83		19.5	0.0	
100	QPSK	135	69		19.92		19.5	0.0	
100	QPSK	135	138		19.74		19.5	0.0	
100	QPSK	270	0		19.80				
100	16QAM	1	1		19.84		19.5	0.0	
100	64QAM	1	1		19.80		19.5	0.0	
100	256QAM	1	1		19.53		19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3485	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.65	18.78	18.74	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.65	18.76	18.68	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.64	18.74	18.70	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3485.02	3499.98	3519.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
0	QPSK	1	1	18.69	18.82	18.75	19.5	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	630888	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
0	QPSK	1	1	3460.02	3499.98	3540	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
0	QPSK	1	1	18.70	18.82	18.73	19.5	0.0	



Part270 n78 Ant2 DSI4

BW (MHz)	Modulation	RB 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	16.19	16.19	16.19		
100	PI2 BPSK	1	137	16.15			17.5	0.0
100	PI2 BPSK	1	271	16.14				
100	PI2 BPSK	135	0	16.15	16.15	16.15	17.5	0.0
100	PI2 BPSK	135	69	16.06	16.06	16.06	17.5	0.0
100	PI2 BPSK	135	138	16.16	16.16	16.16	17.5	0.0
100	PI2 BPSK	270	0	16.19	16.19	16.19		
100	QPSK	1	1	16.27	16.27	16.27		
100	QPSK	1	137	16.08	16.08	16.08	17.5	0.0
100	QPSK	1	271	16.10	16.10	16.10		
100	QPSK	135	0	16.12	16.12	16.12	17.5	0.0
100	QPSK	135	69	16.15	16.15	16.15	17.5	0.0
100	QPSK	135	138	16.06	16.06	16.06	17.5	0.0
100	QPSK	270	0	16.09	16.09	16.09		
100	16QAM	1	1	16.25	16.25	16.25	17.5	0.0
100	64QAM	1	1	16.25	16.25	16.25	17.5	0.0
100	256QAM	1	1	15.91	15.91	15.91	17.5	0.0
Channel								
Frequency (MHz)				649868	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	15.96	16.18	16.06	17.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit	MPR
				3745.01	3750	3750.02	(dBm)	(dB)
80	QPSK	1	1	16.00	16.15	16.10	17.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	15.98	16.10	16.03	17.5	0.0
Channel								
Frequency (MHz)				648993	650000	651334	Tune-up limit	MPR
				3730.02	3750	3730.01	(dBm)	(dB)
60	QPSK	1	1	16.00	16.12	16.04	17.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	15.96	16.19	16.00	17.5	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	16.07	16.13	16.08	17.5	0.0
Channel								
Frequency (MHz)				647688	650000	652334	Tune-up limit	MPR
				3715.02	3750	3765.01	(dBm)	(dB)
30	QPSK	1	1	15.99	16.13	16.11	17.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3760.02	(dBm)	(dB)
20	QPSK	1	1	16.06	16.17	16.09	17.5	0.0

Part270 n78 PC2 Ant2 DSI4

BW (MHz)	Modulation	RB 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	19.17	19.17	19.17		
100	PI2 BPSK	1	137	19.08	19.08	19.08	20.5	0.0
100	PI2 BPSK	1	271	19.16	19.16	19.16		
100	PI2 BPSK	135	0	19.09	19.09	19.09	20.5	0.0
100	PI2 BPSK	135	69	19.03	19.03	19.03	20.5	0.0
100	PI2 BPSK	135	138	19.09	19.09	19.09	20.5	0.0
100	PI2 BPSK	270	0	19.14	19.14	19.14		
100	QPSK	1	1	19.23	19.23	19.23		
100	QPSK	1	137	19.07	19.07	19.07	20.5	0.0
100	QPSK	1	271	19.03	19.03	19.03		
100	QPSK	135	0	19.02	19.02	19.02	20.5	0.0
100	QPSK	135	69	19.18	19.18	19.18	20.5	0.0
100	QPSK	135	138	19.01	19.01	19.01	20.5	0.0
100	QPSK	270	0	19.12	19.12	19.12		
100	16QAM	1	1	19.19	19.19	19.19	20.5	0.0
100	64QAM	1	1	19.14	19.14	19.14	20.5	0.0
100	256QAM	1	1	19.04	19.04	19.04	20.5	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	18.96	19.13	19.10	20.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit	MPR
				3740.01	3750	3740.02	(dBm)	(dB)
80	QPSK	1	1	18.93	19.19	18.98	20.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	18.94	19.21	19.02	20.5	0.0
Channel								
Frequency (MHz)				648993	650000	651334	Tune-up limit	MPR
				3730.02	3750	3730.01	(dBm)	(dB)
60	QPSK	1	1	18.92	19.12	19.07	20.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	18.90	19.13	18.99	20.5	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	18.89	19.12	18.98	20.5	0.0
Channel								
Frequency (MHz)				647688	650000	652334	Tune-up limit	MPR
				3715.02	3750	3765.01	(dBm)	(dB)
30	QPSK	1	1	18.00	19.13	19.06	20.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3760.02	(dBm)	(dB)
20	QPSK	1	1	18.90	19.11	19.04	20.5	0.0

Part27Q n78 Ant2 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500	3500	3500		
100	PI2 BPSK	1	1	18.31	18.31	18.31		
100	PI2 BPSK	1	137	18.30	18.30	18.30	17.5	0.0
100	PI2 BPSK	1	271	18.33	18.33	18.33		
100	PI2 BPSK	135	0	18.24	18.24	18.24	17.5	0.0
100	PI2 BPSK	135	69	18.25	18.25	18.25	17.5	0.0
100	PI2 BPSK	135	138	18.25	18.25	18.25	17.5	0.0
100	PI2 BPSK	270	0	18.32	18.32	18.32		
100	QPSK	1	1	18.37	18.37	18.37		
100	QPSK	1	137	18.28	18.28	18.28	17.5	0.0
100	QPSK	1	271	18.28	18.28	18.28		
100	QPSK	135	0	18.25	18.25	18.25	17.5	0.0
100	QPSK	135	69	18.31	18.31	18.31	17.5	0.0
100	QPSK	135	138	18.20	18.20	18.20	17.5	0.0
100	QPSK	270	0	18.22	18.22	18.22		
100	16QAM	1	1	18.31	18.31	18.31	17.5	0.0
100	64QAM	1	1	18.28	18.28	18.28	17.5	0.0
100	256QAM	1	1	18.14	18.14	18.14	17.5	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit	MPR
				3495	3500	3505	(dBm)	(dB)
90	QPSK	1	1	18.11	18.28	18.23	17.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit	MPR
				3490.02	3500	3510	(dBm)	(dB)
80	QPSK	1	1	18.06	18.39	18.29	17.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit	MPR
				3485.01	3500	3515.01	(dBm)	(dB)
70	QPSK	1	1	18.17	18.28	18.21	17.5	0.0
Channel								
Frequency (MHz)				632000	633334	633668	Tune-up limit	MPR
				3480	3500	3520	(dBm)	(dB)
60	QPSK	1	1	18.07	18.31	18.20	17.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit	MPR
				3475.02	3500	3525	(dBm)	(dB)
50	QPSK	1	1	18.08	18.32	18.17	17.5	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit	MPR
				3470.01	3500	3530.01	(dBm)	(dB)
40	QPSK	1	1	18.13	18.29	18.27	17.5	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit	MPR
				3465	3500	3535	(dBm)	(dB)
30	QPSK	1	1	18.07	18.35	18.22	17.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit	MPR
				3460.02	3500	3540	(dBm)	(dB)
20	QPSK	1	1	18.08	18.34	18.17	17.5	0.0



Part27Q n78 PC2 Ant2 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334				
Frequency (MHz)				3495	3500.01	3505.02			
100	PI2 BPSK	1	1		19.20				
100	PI2 BPSK	1	137		19.26		20.5	0.0	
100	PI2 BPSK	1	271		19.23				
100	PI2 BPSK	135	0		19.15		20.5	0.0	
100	PI2 BPSK	135	69		19.20		20.5	0.0	
100	PI2 BPSK	135	138		19.17		20.5	0.0	
100	PI2 BPSK	270	0		19.31				
100	QPSK	1	1		19.35				
100	QPSK	1	137		19.23		20.5	0.0	
100	QPSK	1	271		19.23				
100	QPSK	135	0		19.17		20.5	0.0	
100	QPSK	135	69		19.23		20.5	0.0	
100	QPSK	135	138		19.11		20.5	0.0	
100	QPSK	270	0		19.17		20.5	0.0	
100	16QAM	1	1		19.28		20.5	0.0	
100	64QAM	1	1		19.17		20.5	0.0	
100	256QAM	1	1		19.08		20.5	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		19.04	19.19	19.15	20.5	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3493.02	3500.01	3510			
80	QPSK	1	1		19.02	19.28	19.18	20.5	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		19.09	19.19	19.18	20.5	0.0
Channel				632000	633334	633668			
Frequency (MHz)				3485	3500.01	3505.02			
60	QPSK	1	1		19.03	19.26	19.14	20.5	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3472.02	3500.01	3525			
50	QPSK	1	1		19.04	19.29	19.23	20.5	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		19.08	19.25	19.23	20.5	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		19.00	19.17	19.21	20.5	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		19.09	19.28	19.12	20.5	0.0



n2 Ant 4 DSI4 sig path: 164

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.56	21.75	21.72		
20	PI2 BPSK	1	53	21.70	21.79	21.64	23.0	0.0
20	PI2 BPSK	1	104	21.84	21.76	21.81		
20	PI2 BPSK	50	0	21.40	21.45	21.28	22.5	0.5
20	PI2 BPSK	50	28	21.82	21.82	21.64	23.0	0.0
20	PI2 BPSK	50	56	21.27	21.35	21.28	22.5	0.5
20	PI2 BPSK	100	0	21.23	21.36	21.34		
20	QPSK	1	1	21.78	21.85	21.77		
20	QPSK	1	53	21.82	21.66	21.63	23.0	0.0
20	QPSK	1	104	21.74	21.80	21.71		
20	QPSK	50	0	20.76	20.90	20.76	22.0	1.0
20	QPSK	50	28	21.59	21.73	21.56	23.0	0.0
20	QPSK	50	56	20.54	20.69	20.56	22.0	1.0
20	QPSK	100	0	20.67	20.71	20.62		
20	16QAM	1	1	21.15	21.17	21.17	22.0	1.0
20	64QAM	1	1	19.17	19.27	19.13	20.5	2.5
20	256QAM	1	1	17.47	17.52	17.49	18.5	4.5
Channel								
Frequency (MHz)				371500	373000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.75	21.83	21.74	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.82	21.68	21.69	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.66	21.74	21.60	23.0	0.0

n2 Ant 4 DSI4 sig path: 429

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.48	21.62	21.59		
20	PI2 BPSK	1	53	21.53	21.62	21.51	23.0	0.0
20	PI2 BPSK	1	104	21.53	21.68	21.50		
20	PI2 BPSK	50	0	21.28	21.38	21.34	22.5	0.5
20	PI2 BPSK	50	28	21.55	21.62	21.47	23.0	0.0
20	PI2 BPSK	50	56	21.15	21.18	21.17	22.5	0.5
20	PI2 BPSK	100	0	21.18	21.27	21.21		
20	QPSK	1	1	21.71	21.76	21.68		
20	QPSK	1	53	21.55	21.81	21.50	23.0	0.0
20	QPSK	1	104	21.61	21.69	21.65		
20	QPSK	50	0	20.75	20.89	20.76	22.0	1.0
20	QPSK	50	28	21.63	21.74	21.63	23.0	0.0
20	QPSK	50	56	20.56	20.67	20.63	22.0	1.0
20	QPSK	100	0	20.80	20.85	20.85		
20	16QAM	1	1	21.02	21.13	21.12	22.0	1.0
20	64QAM	1	1	19.05	19.20	19.12	20.5	2.5
20	256QAM	1	1	17.31	17.47	17.33	18.5	4.5
Channel								
Frequency (MHz)				371800	378000	385500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.53	21.64	21.57	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.53	21.75	21.60	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.53	21.62	21.50	23.0	0.0

n5 Ant 4 DSI4 sig path: 168

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.90	23.02	22.92		
20	PI2 BPSK	1	53	22.85	22.96	22.86	24.0	0.0
20	PI2 BPSK	1	104	22.78	22.88	22.73		
20	PI2 BPSK	50	0	22.44	22.52	22.39	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.97	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.45	22.55	22.42	23.5	0.5
20	PI2 BPSK	100	0	22.47	22.57	22.44		
20	QPSK	1	1	23.01	23.06	22.99		
20	QPSK	1	53	22.92	23.03	22.93	24.0	0.0
20	QPSK	1	104	22.75	22.86	22.77		
20	QPSK	50	0	21.91	22.05	21.99	23.0	1.0
20	QPSK	50	28	22.83	22.88	22.87	24.0	0.0
20	QPSK	50	56	21.87	22.01	21.89	23.0	1.0
20	QPSK	100	0	21.92	22.05	21.98		
20	16QAM	1	1	21.09	21.13	21.06	23.0	1.0
20	64QAM	1	1	20.51	20.56	20.51	21.5	2.5
20	256QAM	1	1	18.52	18.63	18.48	19.5	4.5
Channel								
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.93	23.00	22.85	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.83	22.97	22.91	24.0	0.0
Channel								
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.88	22.91	22.82	24.0	0.0



n5 Ant 4 DSI4 sig path: 414

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				168900	167300	167950		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.98	23.02	22.86		
20	PI2 BPSK	1	53	22.82	22.99	22.94	24.0	0.0
20	PI2 BPSK	1	104	22.92	23.04	22.87		
20	PI2 BPSK	50	0	22.55	22.61	22.56	23.5	0.5
20	PI2 BPSK	50	58	22.79	22.91	22.82	24.0	0.0
20	PI2 BPSK	50	56	22.56	22.56	22.38	23.5	0.5
20	PI2 BPSK	100	0	22.40	22.50	22.52		
20	QPSK	1	1	23.05	23.08	22.92		
20	QPSK	1	53	22.81	22.96	22.80	24.0	0.0
20	QPSK	1	104	23.00	23.01	22.88		
20	QPSK	50	0	22.10	22.12	22.04	23.0	1.0
20	QPSK	50	28	22.78	22.94	22.79	24.0	0.0
20	QPSK	50	56	21.86	21.97	21.83	23.0	1.0
20	QPSK	100	0	21.85	22.01	21.99		
20	16QAM	1	1	22.20	22.27	22.08	23.0	1.0
20	64QAM	1	1	20.32	20.48	20.45	21.5	2.5
20	256QAM	1	1	18.99	19.04	18.94	19.5	4.5
Channel				168300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.01	22.89	22.80	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.89	23.00	22.87	24.0	0.0
Channel				165300	167300	165300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.01	22.91	22.91	24.0	0.0

n12 Ant 4 DSI4 sig path: 172

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.16	23.22	23.11		
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0
15	PI2 BPSK	1	77	23.01	23.13	22.99		
15	PI2 BPSK	36	0	22.84	22.75	22.66	23.5	0.5
15	PI2 BPSK	36	22	23.11	23.17	23.07	24.0	0.0
15	PI2 BPSK	36	43	22.56	22.69	22.61	23.5	0.5
15	PI2 BPSK	75	0	22.85	22.77	22.67		
15	QPSK	1	1	23.19	23.23	23.15		
15	QPSK	1	40	23.07	23.18	23.09	24.0	0.0
15	QPSK	1	77	22.98	23.08	23.00		
15	QPSK	36	0	22.23	22.29	22.17	23.0	1.0
15	QPSK	36	22	23.07	23.15	23.00	24.0	0.0
15	QPSK	36	43	22.98	22.16	22.09	23.0	1.0
15	QPSK	75	0	22.15	22.23	22.11		
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0
15	64QAM	1	1	20.45	20.53	20.39	21.5	2.5
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0

n12 Ant 4 DSI4 sig path: 417

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.93	23.02	22.93		
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0
15	PI2 BPSK	1	77	22.91	22.95	22.89		
15	PI2 BPSK	36	0	22.49	22.63	22.44	23.5	0.5
15	PI2 BPSK	36	22	22.99	22.95	22.89	24.0	0.0
15	PI2 BPSK	36	43	22.42	22.55	22.42	23.5	0.5
15	PI2 BPSK	75	0	22.51	22.58	22.57		
15	QPSK	1	1	23.00	23.06	22.99		
15	QPSK	1	40	22.97	22.98	22.81	24.0	0.0
15	QPSK	1	77	22.86	23.02	22.88		
15	QPSK	36	0	22.05	22.11	22.06	23.0	1.0
15	QPSK	36	22	22.75	22.89	22.78	24.0	0.0
15	QPSK	36	43	21.94	21.99	21.80	23.0	1.0
15	QPSK	75	0	21.97	22.05	21.92		
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0
15	64QAM	1	1	20.32	20.48	20.32	21.5	2.5
15	256QAM	1	1	18.94	19.09	19.07	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.84	22.98	22.84	24.0	0.0



n14 Ant 4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				159500	159500	159500		
Frequency (MHz)				793				
10	PI2 BPSK	1	1	22.60				
10	PI2 BPSK	1	26	22.26			24.0	0.0
10	PI2 BPSK	1	50	22.51			23.5	0.5
10	PI2 BPSK	25	0	22.19			24.0	0.0
10	PI2 BPSK	25	14	22.61			23.5	0.5
10	PI2 BPSK	25	27	22.17			24.0	0.0
10	QPSK	1	1	22.63			23.0	1.0
10	QPSK	1	26	22.58			23.0	1.0
10	QPSK	1	50	22.49			23.0	1.0
10	QPSK	25	0	21.76			24.0	0.0
10	QPSK	25	14	22.45			23.0	1.0
10	QPSK	25	27	21.86			23.0	1.0
10	QPSK	50	0	21.71			23.0	1.0
10	16QAM	1	1	21.80			23.0	1.0
10	16QAM	1	1	19.91			21.5	2.5
10	256QAM	1	1	18.23			19.5	4.5
Channel				158100	159100	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.48	22.52	22.41	24.0	0.0

n25 Ant 4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				376500	376500	376500		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	22.01	22.12	21.97		
40	PI2 BPSK	1	108	21.96	22.03	21.95	23.0	0.0
40	PI2 BPSK	1	214	21.82	21.97	21.86	22.5	0.5
40	PI2 BPSK	108	0	21.46	21.82	21.46	23.0	0.0
40	PI2 BPSK	108	54	21.97	22.08	22.04	23.0	0.0
40	PI2 BPSK	108	108	21.38	21.54	21.45	22.5	0.5
40	PI2 BPSK	216	0	21.44	21.59	21.55	23.0	0.0
40	QPSK	1	1	22.05	22.18	22.11	23.0	0.0
40	QPSK	1	108	21.94	21.95	21.93	23.0	0.0
40	QPSK	1	214	22.00	22.09	21.96	22.0	1.0
40	QPSK	108	0	21.12	21.23	21.18	22.0	1.0
40	QPSK	108	54	22.01	22.09	22.05	23.0	0.0
40	QPSK	108	108	20.93	20.98	20.88	22.0	1.0
40	QPSK	216	0	20.96	21.05	20.97	22.0	1.0
40	16QAM	1	1	21.27	21.42	21.32	22.0	1.0
40	16QAM	1	1	19.79	19.88	19.78	20.5	2.5
40	256QAM	1	1	17.78	17.86	17.80	18.5	4.5
Channel				378000	376500	380000		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	21.99	22.05	21.97	23.0	0.0
Channel				372500	376500	380500		
Frequency (MHz)				1852.5	1882.5	1902.5		
25	QPSK	1	1	21.95	22.07	21.95	23.0	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	21.94	22.13	22.07	23.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	21.91	22.03	22.01	23.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	21.96	22.05	22.00	23.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	21.92	22.14	21.99	23.0	0.0

n26 Ant 4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166500	166300	167000		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.91	23.01	22.93		
20	PI2 BPSK	1	53	22.87	22.97	22.86	24.0	0.0
20	PI2 BPSK	1	104	22.81	22.88	22.74	23.5	0.5
20	PI2 BPSK	50	0	22.48	22.82	22.50	24.0	0.0
20	PI2 BPSK	50	28	22.96	23.04	22.99	24.0	0.0
20	PI2 BPSK	50	56	22.47	22.54	22.42	23.5	0.5
20	PI2 BPSK	100	0	22.48	22.82	22.57	24.0	0.0
20	QPSK	1	1	22.98	23.06	23.01	24.0	0.0
20	QPSK	1	53	22.96	23.03	22.89	24.0	0.0
20	QPSK	1	104	22.77	22.89	22.83	23.0	1.0
20	QPSK	50	0	21.94	22.07	21.98	23.0	1.0
20	QPSK	50	28	22.89	23.03	22.94	24.0	0.0
20	QPSK	50	56	21.95	22.05	21.94	23.0	1.0
20	QPSK	100	0	22.04	22.14	22.05	23.0	1.0
20	16QAM	1	1	22.11	22.19	22.13	23.0	1.0
20	16QAM	1	1	20.05	20.19	20.13	21.5	2.5
20	256QAM	1	1	18.81	18.96	18.82	19.5	4.5
Channel				165300	166300	166300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.84	22.97	22.91	24.0	0.0
Channel				163800	166300	168800		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.86	23.01	22.85	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.90	22.95	22.88	24.0	0.0



n66 Ant 4 DSI4 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	345000	345000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	21.76	21.86	21.70			
40	PI2 BPSK	1	108	21.87	22.00	21.85	23.0	0.0	
40	PI2 BPSK	1	214	21.83	21.91	21.82			
40	PI2 BPSK	108	0	21.46	21.55	21.44	22.5	0.5	
40	PI2 BPSK	108	54	21.82	21.92	21.80	23.0	0.0	
40	PI2 BPSK	108	108	21.49	21.52	21.50	22.5	0.5	
40	PI2 BPSK	216	0	21.37	21.50	21.48			
40	QPSK	1	1	21.99	22.10	21.84			
40	QPSK	1	108	21.90	21.94	21.90	23.0	0.0	
40	QPSK	1	214	21.84	22.00	21.92			
40	QPSK	108	0	20.95	21.11	21.04	22.0	1.0	
40	QPSK	108	54	21.77	21.96	21.84	23.0	0.0	
40	QPSK	108	108	20.98	21.12	20.85	22.0	1.0	
40	QPSK	216	0	21.12	21.22	21.08			
40	16QAM	1	1	21.28	21.42	21.38	22.0	1.0	
40	16QAM	1	1	19.38	19.45	19.32	20.5	2.5	
40	256QAM	1	1	17.88	17.73	17.59	18.5	4.5	
Channel				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.85	22.00	21.77	23.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.89	22.00	21.81	23.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.96	22.09	21.83	23.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.82	22.05	21.81	23.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.93	21.93	21.82	23.0	0.0	

n66 Ant 4 DSI4 sig path: 432									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	21.96	22.05	22.01			
40	PI2 BPSK	1	108	21.92	22.02	22.00	23.0	0.0	
40	PI2 BPSK	1	214	21.90	22.04	21.98			
40	PI2 BPSK	108	0	21.82	21.85	21.82	22.5	0.5	
40	PI2 BPSK	108	54	21.87	22.03	21.95	23.0	0.0	
40	PI2 BPSK	108	108	21.33	21.47	21.44	22.5	0.5	
40	PI2 BPSK	216	0	21.54	21.59	21.45			
40	QPSK	1	1	22.00	22.11	21.82			
40	QPSK	1	108	21.72	21.87	21.88	23.0	0.0	
40	QPSK	1	214	22.03	22.04	21.85			
40	QPSK	108	0	21.11	21.12	21.07	22.0	1.0	
40	QPSK	108	54	21.80	22.00	21.81	23.0	0.0	
40	QPSK	108	108	21.07	21.10	21.00	22.0	1.0	
40	QPSK	216	0	21.08	21.16	21.12			
40	16QAM	1	1	21.17	21.32	21.28	22.0	1.0	
40	16QAM	1	1	19.27	19.39	19.27	20.5	2.5	
40	256QAM	1	1	17.51	17.66	17.56	18.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.83	21.99	21.71	23.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.83	22.01	21.63	23.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.81	21.94	21.74	23.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.81	22.02	21.78	23.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.94	21.99	21.64	23.0	0.0	

n70 Ant 4 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	349000			
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1			21.55			
15	PI2 BPSK	1	40			21.81	23.0	0.0	
15	PI2 BPSK	1	77			21.55			
15	PI2 BPSK	36	0			21.19	22.5	0.5	
15	PI2 BPSK	36	22			21.62	23.0	0.0	
15	PI2 BPSK	36	43			21.24	22.5	0.5	
15	PI2 BPSK	75	0			21.26			
15	QPSK	1	1			21.85			
15	QPSK	1	40			21.52	23.0	0.0	
15	QPSK	1	77			21.55			
15	QPSK	36	0			20.86	22.0	1.0	
15	QPSK	36	22			21.81	23.0	0.0	
15	QPSK	36	43			20.85	22.0	1.0	
15	QPSK	75	0			20.70			
15	16QAM	1	1			20.97	22.0	1.0	
15	16QAM	1	1			18.98	20.5	2.5	
15	256QAM	1	1			17.27	18.5	4.5	
Channel				346000	349000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	21.44	21.56	21.44	23.0	0.0	
Channel				339500	349500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	21.83	21.58	21.42	23.0	0.0	



n71 Ant 4 DS14

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				13600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.87	22.88	22.92		
20	PI/2 BPSK	1	53	22.78	22.91	22.83	24.0	0.0
20	PI/2 BPSK	1	104	22.68	22.76	22.83		
20	PI/2 BPSK	50	0	22.46	22.57	22.46	23.5	0.5
20	PI/2 BPSK	50	28	22.86	22.95	22.89	24.0	0.0
20	PI/2 BPSK	50	56	22.34	22.45	22.39	23.5	0.5
20	PI/2 BPSK	100	0	22.42	22.67	22.47		
20	QPSK	1	1	22.91	23.05	22.97		
20	QPSK	1	53	22.80	22.92	22.86	24.0	0.0
20	QPSK	1	104	22.68	22.76	22.70		
20	QPSK	50	0	21.86	21.98	21.81	23.0	1.0
20	QPSK	50	28	22.92	22.67	22.90	24.0	0.0
20	QPSK	50	56	21.85	21.85	21.86	23.0	1.0
20	QPSK	100	0	22.00	22.07	22.01		
20	16QAM	1	1	22.31	22.37	22.23	23.0	1.0
20	16QAM	1	1	20.18	20.30	20.25	21.5	2.5
20	256QAM	1	1	18.66	18.73	18.65	19.5	4.5
Channel				134100	135100	136100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.83	22.94	22.92	24.0	0.0
Channel				133600	136100	136600		
Frequency (MHz)				665	680.5	693		
10	QPSK	1	1	22.80	22.88	22.86	24.0	0.0
Channel				133100	135100	135100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.78	22.91	22.86	24.0	0.0



n41 Ant 4 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.91	20.07	19.95			
100	PI2 BPSK	1	137	19.86	20.01	19.89	21.0	0.0	
100	PI2 BPSK	1	271	19.79	19.87	19.73			
100	PI2 BPSK	135	0	19.31	19.42	19.30	20.5	0.5	
100	PI2 BPSK	135	69	19.93	20.00	19.95	21.0	0.0	
100	PI2 BPSK	135	138	19.24	19.37	19.26	20.5	0.5	
100	PI2 BPSK	270	0	19.35	19.44	19.37			
100	QPSK	1	1	20.09	20.12	20.06			
100	QPSK	1	137	19.97	20.08	19.93	21.0	0.0	
100	QPSK	1	271	19.82	19.90	19.79			
100	QPSK	135	0	18.93	18.97	18.82	20.0	1.0	
100	QPSK	135	69	19.78	19.84	19.74	21.0	0.0	
100	QPSK	135	138	18.74	18.85	18.80	20.0	1.0	
100	QPSK	270	0	18.76	18.91	18.77			
100	16QAM	1	1	18.87	18.99	18.88	20.0	1.0	
100	16QAM	1	1	17.39	17.54	17.43	18.5	2.5	
100	256QAM	1	1	15.39	15.49	15.37	16.5	4.5	
Channel				50200	51898	52900			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.93	20.04	19.92	21.0	0.0	
Channel				507204	518998	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.95	20.00	19.98	21.0	0.0	
Channel				503002	518998	531000			
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	19.87	20.02	19.92	21.0	0.0	
Channel				505200	518998	531998			
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.95	20.07	19.99	21.0	0.0	
Channel				504204	518998	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.93	19.98	19.92	21.0	0.0	
Channel				503202	518998	533000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.95	20.01	20.02	21.0	0.0	
Channel				502200	518998	534998			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	19.99	19.99	19.96	21.0	0.0	
Channel				501204	518998	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.90	20.00	20.01	21.0	0.0	

n41 PC2 Ant 4 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.90	22.98	22.89			
100	PI2 BPSK	1	137	22.89	22.93	22.85	24.0	0.0	
100	PI2 BPSK	1	271	22.83	22.88	22.78			
100	PI2 BPSK	135	0	22.78	22.87	22.81	23.5	0.5	
100	PI2 BPSK	135	69	22.83	22.92	22.85	24.0	0.0	
100	PI2 BPSK	135	138	22.72	22.79	22.75	23.5	0.5	
100	PI2 BPSK	270	0	22.79	22.84	22.80			
100	QPSK	1	1	22.93	23.03	22.98			
100	QPSK	1	137	22.83	22.90	22.82	24.0	0.0	
100	QPSK	1	271	22.81	22.86	22.82			
100	QPSK	135	0	22.78	22.83	22.69	23.0	1.0	
100	QPSK	135	69	22.83	22.96	22.81	24.0	0.0	
100	QPSK	135	138	22.72	22.81	22.86	23.0	1.0	
100	QPSK	270	0	22.79	22.87	22.81			
100	16QAM	1	1	22.90	22.95	22.79	23.0	1.0	
100	16QAM	1	1	20.94	21.07	21.00	21.5	2.5	
100	256QAM	1	1	19.01	19.09	19.04	19.5	4.5	
Channel				50200	51898	52900			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.77	22.97	22.94	24.0	0.0	
Channel				507204	518998	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.85	22.98	22.91	24.0	0.0	
Channel				503002	518998	531000			
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	22.81	22.90	22.91	24.0	0.0	
Channel				505200	518998	531998			
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.82	22.98	22.86	24.0	0.0	
Channel				504204	518998	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.79	22.85	22.84	24.0	0.0	
Channel				503202	518998	533000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.77	22.94	22.88	24.0	0.0	
Channel				502200	518998	534998			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.81	22.89	22.90	24.0	0.0	
Channel				501204	518998	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.96	22.85	24.0	0.0	



n48 Part96 Ant 5 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	22.71	22.77	22.83		
40	PI2 BPSK	1	53	22.80	22.73	22.68	24.0	0.0
40	PI2 BPSK	1	104	22.84	22.68	22.62		
40	PI2 BPSK	50	0	22.19	22.28	22.14	23.5	0.5
40	PI2 BPSK	50	58	22.59	22.71	22.67	24.0	0.0
40	PI2 BPSK	50	28	22.10	22.25	22.17	23.5	0.5
40	PI2 BPSK	100	0	22.20	22.31	22.25		
40	QPSK	1	1	22.76	22.83	22.89		
40	QPSK	1	53	22.85	22.79	22.88	24.0	0.0
40	QPSK	1	104	22.59	22.74	22.60		
40	QPSK	50	0	21.71	21.78	21.71	23.0	1.0
40	QPSK	50	28	22.59	22.75	22.65	24.0	0.0
40	QPSK	50	58	21.88	21.78	21.85		
40	QPSK	100	0	21.72	21.82	21.73	23.0	1.0
40	16QAM	1	1	21.96	22.06	21.96	23.0	1.0
40	64QAM	1	1	20.43	20.49	20.37	21.5	2.5
40	256QAM	1	1	18.29	18.33	18.25	19.5	4.5
Channel								
Frequency (MHz)				3765.02	3824.99	3884.99		
30	QPSK	1	1	22.82	22.74	22.84	24.0	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
20	QPSK	1	1	22.83	22.73	22.81	24.0	0.0
Channel								
Frequency (MHz)				637000	641666	646332		
10	QPSK	1	1	3555	3624.99	3694.98		
Channel								
Frequency (MHz)				22.70	22.73	22.82	24.0	0.0

Part270 n77 Ant 5 DSI4

BW [MHz]	Modulation	RB 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	22.91	22.98	22.90		
100	PI2 BPSK	1	137	22.86	22.92	22.80	24.0	0.0
100	PI2 BPSK	1	271	22.75	22.85	22.78		
100	PI2 BPSK	135	0	22.35	22.39	22.33	23.5	0.5
100	PI2 BPSK	135	69	22.75	22.90	22.82	24.0	0.0
100	PI2 BPSK	135	138	22.23	22.38	22.29	23.5	0.5
100	PI2 BPSK	270	0	22.26	22.42	22.29		
100	QPSK	1	1	22.93	23.03	22.97		
100	QPSK	1	137	22.78	22.94	22.79	24.0	0.0
100	QPSK	1	271	22.78	22.91	22.78		
100	QPSK	135	0	21.71	21.81	21.76	23.0	1.0
100	QPSK	135	69	22.84	22.88	22.77	24.0	0.0
100	QPSK	135	138	21.82	21.88	21.85		
100	QPSK	270	0	21.84	21.92	21.80	23.0	1.0
100	16QAM	1	1	21.78	21.82	21.87	23.0	1.0
100	64QAM	1	1	20.40	20.53	20.42	21.5	2.5
100	256QAM	1	1	18.22	18.35	18.29	19.5	4.5
Channel								
Frequency (MHz)				648668	656000	663334		
90	QPSK	1	1	22.85	22.98	22.92	24.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	22.80	22.92	22.82	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	22.86	22.89	22.84	24.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				647668	656000	664334		
40	QPSK	1	1	22.79	22.96	22.87	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	664000		
30	QPSK	1	1	22.77	22.92	22.82	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)				22.84	22.93	22.90	24.0	0.0

Part270 n77 PC2 Ant 5 DSI4

BW [MHz]	Modulation	RB 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	25.87	25.93	25.80		
100	PI2 BPSK	1	137	25.81	25.88	25.79	27.0	0.0
100	PI2 BPSK	1	271	25.73	25.81	25.72		
100	PI2 BPSK	135	0	25.74	25.79	25.67	26.5	0.5
100	PI2 BPSK	135	69	25.83	25.90	25.76	27.0	0.0
100	PI2 BPSK	135	138	25.73	25.80	25.64	26.5	0.5
100	PI2 BPSK	270	0	25.78	25.84	25.75		
100	QPSK	1	1	25.90	25.97	25.86		
100	QPSK	1	137	25.80	25.90	25.85	27.0	0.0
100	QPSK	1	271	25.85	25.92	25.78		
100	QPSK	135	0	25.72	25.83	25.78	26.0	1.0
100	QPSK	135	69	25.84	25.92	25.86	27.0	0.0
100	QPSK	135	138	25.70	25.78	25.69		
100	QPSK	270	0	25.78	25.83	25.78	26.0	1.0
100	16QAM	1	1	25.43	25.51	25.48	26.0	1.0
100	64QAM	1	1	23.33	23.49	23.40	24.5	2.5
100	256QAM	1	1	21.24	21.33	21.18	22.5	4.5
Channel								
Frequency (MHz)				649334	656000	663334		
90	QPSK	1	1	25.76	25.91	25.76	27.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	25.78	25.83	25.73	27.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	25.78	25.93	25.81	27.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				647668	656000	664334		
40	QPSK	1	1	25.75	25.89	25.81	27.0	0.0
Channel								
Frequency (MHz)				647334	656000	664000		
30	QPSK	1	1	25.83	25.87	25.81	27.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	3710.01	3840	3970.02		
Channel								
Frequency (MHz)				25.74	25.85	25.73	27.0	0.0



Part27Q n77 Ant 5 DSI4

BW (MHz)	Modulation	RB 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	22.81				
100	PI2 BPSK	1	137	22.57			24.0	0.0
100	PI2 BPSK	1	271	22.42				
100	PI2 BPSK	135	0	22.17			23.5	0.5
100	PI2 BPSK	135	69	22.54			24.0	0.0
100	PI2 BPSK	135	138	22.02			23.5	0.5
100	PI2 BPSK	270	0	22.08			24.0	0.0
100	QPSK	1	1	22.88				
100	QPSK	1	137	22.53			24.0	0.0
100	QPSK	1	271	22.49				
100	QPSK	135	0	21.71			23.0	1.0
100	QPSK	135	69	22.58			24.0	0.0
100	QPSK	135	138	21.56			23.0	1.0
100	QPSK	270	0	21.61			24.0	0.0
100	16QAM	1	1	21.87			23.0	1.0
100	16QAM	1	1	20.27			21.5	2.5
100	256QAM	1	1	18.15			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.52	22.56	22.49	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.49	22.60	22.43	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.51	22.54	22.44	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.55	22.57	22.49	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.49	22.63	22.44	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.51	22.61	22.52	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.53	22.59	22.47	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.56	22.62	22.52	24.0	0.0

Part27Q n77 PC2 Ant 5 DSI4

BW (MHz)	Modulation	RB 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				
100	PI2 BPSK	1	137	25.53			27.0	0.0
100	PI2 BPSK	1	271	25.48				
100	PI2 BPSK	135	0	25.39			26.5	0.5
100	PI2 BPSK	135	69	25.54			27.0	0.0
100	PI2 BPSK	135	138	25.41			26.5	0.5
100	PI2 BPSK	270	0	25.48			27.0	0.0
100	QPSK	1	1	25.62				
100	QPSK	1	137	25.57			27.0	0.0
100	QPSK	1	271	25.51				
100	QPSK	135	0	25.47			26.0	1.0
100	QPSK	135	69	25.27			27.0	0.0
100	QPSK	135	138	25.41			26.0	1.0
100	QPSK	270	0	25.46			27.0	0.0
100	16QAM	1	1	25.37			26.0	1.0
100	16QAM	1	1	23.24			24.5	2.5
100	256QAM	1	1	21.11			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.50	25.57	25.42	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.45	25.47	25.39	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.42	25.48	25.39	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.48	25.49	25.37	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.43	25.51	25.45	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.49	25.58	25.37	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.44	25.50	25.40	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.43	25.47	25.37	27.0	0.0

Part27Q n78 Ant 5 DSI4

BW (MHz)	Modulation	RB 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	23.19				
100	PI2 BPSK	1	137	23.10			24.0	0.0
100	PI2 BPSK	1	271	23.08				
100	PI2 BPSK	135	0	22.52			23.5	0.5
100	PI2 BPSK	135	69	23.11			24.0	0.0
100	PI2 BPSK	135	138	22.58			23.5	0.5
100	PI2 BPSK	270	0	22.62			24.0	0.0
100	QPSK	1	1	23.24				
100	QPSK	1	137	23.14			24.0	0.0
100	QPSK	1	271	23.20				
100	QPSK	135	0	22.01			23.0	1.0
100	QPSK	135	69	23.06			24.0	0.0
100	QPSK	135	138	22.85			23.0	1.0
100	QPSK	270	0	22.09			24.0	0.0
100	16QAM	1	1	21.75			23.0	1.0
100	16QAM	1	1	20.09			21.5	2.5
100	256QAM	1	1	18.15			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.11	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.08	23.11	23.06	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.05	23.18	23.02	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.00	23.09	23.03	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.06	23.18	23.11	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.10	23.13	23.02	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.08	23.09	23.04	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.07	23.18	23.05	24.0	0.0



Part270 n78 PC2 Ant 5 DSI4

BW (MHz)	Modulation	RB 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	26.14				
100	PI2 BPSK	1	137	26.08			27.0	0.0
100	PI2 BPSK	1	271	26.03				
100	PI2 BPSK	135	69	25.82			26.5	0.5
100	PI2 BPSK	135	69	26.01			27.0	0.0
100	PI2 BPSK	135	138	25.79			26.5	0.5
100	PI2 BPSK	270	0	25.84				
100	QPSK	1	1	26.16				
100	QPSK	1	137	26.11			27.0	0.0
100	QPSK	1	271	26.06				
100	QPSK	135	0	25.98			26.0	1.0
100	QPSK	135	69	26.13			27.0	0.0
100	QPSK	135	138	25.84			26.0	1.0
100	QPSK	270	0	25.91				
100	16QAM	1	1	25.61			26.0	1.0
100	16QAM	1	1	23.67			24.5	2.5
100	256QAM	1	1	21.44			22.5	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.99	26.04	25.94	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.97	26.00	25.85	27.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	26.09	26.06	26.00	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720.02	3750	3770.01		
60	QPSK	1	1	26.02	26.10	25.98	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	26.00	26.04	25.97	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	26.05	26.07	25.91	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	26.09	26.13	25.89	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	26.00	26.03	25.95	27.0	0.0

Part27Q n78 Ant 5 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	23.10				
100	PI2 BPSK	1	137	23.05			24.0	0.0
100	PI2 BPSK	1	271	22.81				
100	PI2 BPSK	135	69	22.59			23.5	0.5
100	PI2 BPSK	135	69	23.06			24.0	0.0
100	PI2 BPSK	135	138	22.44			23.5	0.5
100	PI2 BPSK	270	0	22.50				
100	QPSK	1	1	23.13				
100	QPSK	1	137	23.01			24.0	0.0
100	QPSK	1	271	22.95				
100	QPSK	135	0	22.12			23.0	1.0
100	QPSK	135	69	23.06			24.0	0.0
100	QPSK	135	138	21.94			23.0	1.0
100	QPSK	270	0	22.02				
100	16QAM	1	1	21.89			23.0	1.0
100	16QAM	1	1	20.27			21.5	2.5
100	256QAM	1	1	18.29			19.5	4.5
Channel				633800	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.02	23.00	22.91	24.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.96	23.07	22.87	24.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.93	23.00	22.91	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.99	23.08	22.90	24.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.98	22.99	22.89	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.95	23.00	22.90	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.96	23.08	22.86	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.93	22.99	22.90	24.0	0.0

Part27Q n78 PC2 Ant 5 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	26.02				
100	PI2 BPSK	1	137	25.98			27.0	0.0
100	PI2 BPSK	1	271	25.91				
100	PI2 BPSK	135	0	25.78			26.5	0.5
100	PI2 BPSK	135	69	25.97			27.0	0.0
100	PI2 BPSK	135	138	25.86			26.5	0.5
100	PI2 BPSK	270	0	25.90				
100	QPSK	1	1	26.07				
100	QPSK	1	137	26.01			27.0	0.0
100	QPSK	1	271	25.94				
100	QPSK	135	0	25.87			26.0	1.0
100	QPSK	135	69	25.91			27.0	0.0
100	QPSK	135	138	25.86			26.0	1.0
100	QPSK	270	0	25.93				
100	16QAM	1	1	25.66			26.0	1.0
100	16QAM	1	1	23.74			24.5	2.5
100	256QAM	1	1	21.67			22.5	4.5
Channel				633800	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	25.84	25.92	25.94	27.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.88	25.99	25.92	27.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	25.86	25.98	25.91	27.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.89	25.95	25.94	27.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.88	25.92	25.95	27.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.95	25.99	25.91	27.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.93	26.00	25.96	27.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.92	25.96	25.86	27.0	0.0



n41 Ant 7 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.50	20.54	20.41			
100	PI2 BPSK	1	137	20.31	20.46	20.41	22.0	0.0	
100	PI2 BPSK	1	271	20.31	20.41	20.37			
100	PI2 BPSK	135	0	19.87	19.98	19.90	21.5	0.5	
100	PI2 BPSK	135	69	20.38	20.43	20.34	22.0	0.0	
100	PI2 BPSK	135	138	19.98	20.00	19.85	21.5	0.5	
100	PI2 BPSK	270	0	19.97	20.05	19.92			
100	QPSK	1	1	20.51	20.59	20.45			
100	QPSK	1	137	20.43	20.53	20.40	22.0	0.0	
100	QPSK	1	271	20.43	20.50	20.42			
100	QPSK	135	0	19.35	19.47	19.41	21.0	1.0	
100	QPSK	135	69	20.34	20.49	20.38	22.0	0.0	
100	QPSK	135	138	19.42	19.47	19.31	21.0	1.0	
100	QPSK	270	0	19.44	19.52	19.41			
100	16QAM	1	1	19.57	19.61	19.54	21.0	1.0	
100	16QAM	1	1	18.04	18.13	17.99	19.5	2.5	
100	256QAM	1	1	18.27	18.38	18.21	17.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	20.38	20.52	20.32	22.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	22.0	0.0	
80	QPSK	1	1	20.44	20.50	20.53	22.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	22.0	0.0	
70	QPSK	1	1	20.44	20.47	20.39	22.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	22.0	0.0	
60	QPSK	1	1	20.37	20.52	20.39	22.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	20.41	20.45	20.38	22.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	20.39	20.47	20.33	22.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	22.0	0.0	
30	QPSK	1	1	20.40	20.49	20.35	22.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	20.36	20.52	20.37	22.0	0.0	

n41 PC2 Ant 7 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.49	23.59	23.51			
100	PI2 BPSK	1	137	23.40	23.51	23.37	25.0	0.0	
100	PI2 BPSK	1	271	23.28	23.34	23.28			
100	PI2 BPSK	135	0	23.24	23.30	23.15	24.5	0.5	
100	PI2 BPSK	135	69	23.45	23.51	23.43	25.0	0.0	
100	PI2 BPSK	135	138	23.19	23.30	23.23	24.5	0.5	
100	PI2 BPSK	270	0	23.32	23.38	23.20			
100	QPSK	1	1	23.55	23.63	23.58			
100	QPSK	1	137	23.46	23.55	23.50	25.0	0.0	
100	QPSK	1	271	23.38	23.42	23.36			
100	QPSK	135	0	23.19	23.31	23.19	24.0	1.0	
100	QPSK	135	69	23.49	23.55	23.48	25.0	0.0	
100	QPSK	135	138	23.29	23.33	23.23	24.0	1.0	
100	QPSK	270	0	23.34	23.40	23.31			
100	16QAM	1	1	23.51	23.62	23.46	24.0	1.0	
100	16QAM	1	1	21.55	21.65	21.49	22.5	2.5	
100	256QAM	1	1	19.44	19.59	19.50	20.5	4.5	
Channel				502000	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	23.47	23.51	23.44	25.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	22.0	0.0	
80	QPSK	1	1	23.45	23.47	23.42	25.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	22.0	0.0	
70	QPSK	1	1	23.50	23.49	23.44	25.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	22.0	0.0	
60	QPSK	1	1	23.49	23.47	23.48	25.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	23.46	23.50	23.51	25.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	23.46	23.48	23.52	25.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	22.0	0.0	
30	QPSK	1	1	23.45	23.50	23.49	25.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	23.39	23.59	23.48	25.0	0.0	



Part270 n77 Ant8 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	19.18	19.18	19.27		
100	PI2 BPSK	1	137	19.30	19.35	19.31	20.5	0.0
100	PI2 BPSK	1	271	19.35	19.29	19.23		
100	PI2 BPSK	135	0	19.18	19.20	19.23	20.5	0.0
100	PI2 BPSK	135	69	19.38	19.23	19.34	20.5	0.0
100	PI2 BPSK	135	138	19.28	19.19	19.23	20.5	0.0
100	PI2 BPSK	270	0	19.31	19.24	19.30		
100	QPSK	1	1	19.35	19.41	19.39		
100	QPSK	1	137	19.27	19.38	19.27	20.5	0.0
100	QPSK	1	271	19.27	19.30	19.39		
100	QPSK	135	0	19.30	19.27	19.35	20.5	0.0
100	QPSK	135	69	19.33	19.39	19.35	20.5	0.0
100	QPSK	135	138	19.33	19.35	19.33	20.5	0.0
100	QPSK	270	0	19.34	19.37	19.28		
100	16QAM	1	1	19.29	19.32	19.20	20.5	0.0
100	16QAM	1	1	18.87	18.88	18.90	20.0	0.5
100	256QAM	1	1	17.32	17.45	17.41	18.0	2.5
Channel								
Frequency (MHz)				64868	65000	64834		
90	QPSK	1	1	19.24	19.38	19.27	20.5	0.0
Channel								
Frequency (MHz)				64934	65000	64968		
80	QPSK	1	1	19.21	19.35	19.24	20.5	0.0
Channel								
Frequency (MHz)				64900	65000	64900		
70	QPSK	1	1	19.23	19.37	19.33	20.5	0.0
Channel								
Frequency (MHz)				64868	65000	64834		
60	QPSK	1	1	19.25	19.29	19.33	20.5	0.0
Channel								
Frequency (MHz)				64834	65000	64868		
50	QPSK	1	1	19.29	19.33	19.29	20.5	0.0
Channel								
Frequency (MHz)				64800	65000	64800		
40	QPSK	1	1	19.21	19.30	19.33	20.5	0.0
Channel								
Frequency (MHz)				64768	65000	64434		
30	QPSK	1	1	19.29	19.27	19.29	20.5	0.0
Channel								
Frequency (MHz)				64734	65000	64668		
20	QPSK	1	1	19.20	19.26	19.24	20.5	0.0

Part270 n77 PC2 Ant8 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	22.12	22.18	22.35		
100	PI2 BPSK	1	137	22.30	22.32	22.29	23.5	0.0
100	PI2 BPSK	1	271	22.28	22.31	22.28		
100	PI2 BPSK	135	0	22.24	22.21	22.21	23.5	0.0
100	PI2 BPSK	135	69	22.29	22.28	22.28	23.5	0.0
100	PI2 BPSK	135	138	22.28	22.25	22.21	23.5	0.0
100	PI2 BPSK	270	0	22.28	22.22	22.25		
100	QPSK	1	1	22.32	22.37	22.35		
100	QPSK	1	137	22.24	22.34	22.33	23.5	0.0
100	QPSK	1	271	22.32	22.24	22.30		
100	QPSK	135	0	22.29	22.27	22.30	23.5	0.0
100	QPSK	135	69	22.33	22.35	22.27	23.5	0.0
100	QPSK	135	138	22.21	22.30	22.23	23.5	0.0
100	QPSK	270	0	22.27	22.32	22.28		
100	16QAM	1	1	22.28	22.27	22.16	23.5	0.0
100	16QAM	1	1	21.90	21.83	21.91	23.0	0.5
100	256QAM	1	1	20.27	20.41	20.41	21.0	2.5
Channel								
Frequency (MHz)				64868	65000	64834		
90	QPSK	1	1	22.17	22.26	22.24	23.5	0.0
Channel								
Frequency (MHz)				64934	65000	64968		
80	QPSK	1	1	22.24	22.32	22.24	23.5	0.0
Channel								
Frequency (MHz)				64900	65000	64900		
70	QPSK	1	1	22.20	22.28	22.24	23.5	0.0
Channel								
Frequency (MHz)				64868	65000	64834		
60	QPSK	1	1	22.26	22.27	22.20	23.5	0.0
Channel								
Frequency (MHz)				64834	65000	64868		
50	QPSK	1	1	22.19	22.32	22.26	23.5	0.0
Channel								
Frequency (MHz)				64800	65000	64800		
40	QPSK	1	1	22.26	22.31	22.20	23.5	0.0
Channel								
Frequency (MHz)				64768	65000	64434		
30	QPSK	1	1	22.27	22.23	22.22	23.5	0.0
Channel								
Frequency (MHz)				64734	65000	64668		
20	QPSK	1	1	22.23	22.28	22.27	23.5	0.0

Part270Q n77 Ant8 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63000	63332	63332		
100	PI2 BPSK	1	1	18.81	18.81	18.81		
100	PI2 BPSK	1	137	19.01	19.01	19.01	20.5	0.0
100	PI2 BPSK	1	271	18.91	18.91	18.91		
100	PI2 BPSK	135	0	18.82	18.82	18.82	20.5	0.0
100	PI2 BPSK	135	69	18.80	18.80	18.80	20.5	0.0
100	PI2 BPSK	135	138	18.83	18.83	18.83	20.5	0.0
100	PI2 BPSK	270	0	19.03	19.03	19.03		
100	QPSK	1	1	19.07	19.07	19.07		
100	QPSK	1	137	19.04	19.04	19.04	20.5	0.0
100	QPSK	1	271	18.92	18.92	18.92		
100	QPSK	135	0	18.91	18.91	18.91	20.5	0.0
100	QPSK	135	69	19.03	19.03	19.03	20.5	0.0
100	QPSK	135	138	18.89	18.89	18.89	20.5	0.0
100	QPSK	270	0	18.99	18.99	18.99		
100	16QAM	1	1	18.86	18.86	18.86	20.5	0.0
100	16QAM	1	1	18.54	18.54	18.54	20.0	0.5
100	256QAM	1	1	17.08	17.08	17.08	18.0	2.5
Channel								
Frequency (MHz)				63000	63332	63332		
90	QPSK	1	1	18.91	18.87	18.84	20.5	0.0
Channel								
Frequency (MHz)				63268	63332	63400		
80	QPSK	1	1	18.92	18.87	18.89	20.5	0.0
Channel								
Frequency (MHz)				63234	63332	63432		
70	QPSK	1	1	18.92	18.85	18.90	20.5	0.0
Channel								
Frequency (MHz)				63200	63332	63468		
60	QPSK	1	1	18.83	18.88	18.80	20.5	0.0
Channel								
Frequency (MHz)				63168	63332	63500		
50	QPSK	1	1	18.86	18.80	18.90	20.5	0.0
Channel								
Frequency (MHz)				63134	63332	63532		
40	QPSK	1	1	18.89	18.82	18.90	20.5	0.0
Channel								
Frequency (MHz)				63100	63332	63568		
30	QPSK	1	1	18.91	18.79	18.92	20.5	0.0
Channel								
Frequency (MHz)				63068	63332	63600		
20	QPSK	1	1	18.86	18.80	18.88	20.5	0.0



Part27Q n77 PC2 Ant8 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3499.98	633332			
Frequency (MHz)				3499.98				
100	PI2 BPSK	1	1	21.79				
100	PI2 BPSK	1	137	21.89				0.0
100	PI2 BPSK	1	271	21.96				
100	PI2 BPSK	135	69	21.86			23.5	0.0
100	PI2 BPSK	135	69	21.92			23.5	0.0
100	PI2 BPSK	135	138	21.90			23.5	0.0
100	PI2 BPSK	270	0	21.82				
100	QPSK	1	1	21.98				
100	QPSK	1	137	21.92			23.5	0.0
100	QPSK	1	271	21.82				
100	QPSK	135	0	21.89			23.5	0.0
100	QPSK	135	69	21.95			23.5	0.0
100	QPSK	135	138	21.83			23.5	0.0
100	QPSK	270	0	21.88				
100	16QAM	1	1	21.90			23.5	0.0
100	16QAM	1	1	21.40			23.0	0.5
100	256QAM	1	1	20.00			21.0	2.5
Channel				633000	633332	633668		
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	21.92	21.93	21.86	23.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	21.89	21.89	21.90	23.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	21.88	21.85	21.93	23.5	0.0
Channel				632000	633332	634668		
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	21.94	21.82	21.92	23.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	21.77	21.74	21.77	23.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	21.76	21.72	21.80	23.5	0.0
Channel				631000	633332	635668		
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	21.80	21.74	21.82	23.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	21.85	21.76	21.78	23.5	0.0

Part27O n78 Ant8 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	19.29				
100	PI2 BPSK	1	137	19.47				0.0
100	PI2 BPSK	1	271	19.45				
100	PI2 BPSK	135	69	19.29			20.5	0.0
100	PI2 BPSK	135	69	19.42			20.5	0.0
100	PI2 BPSK	135	138	19.28			20.5	0.0
100	PI2 BPSK	270	0	19.38				
100	QPSK	1	1	19.81				
100	QPSK	1	137	19.55			20.5	0.0
100	QPSK	1	271	19.50				
100	QPSK	135	0	19.38			20.5	0.0
100	QPSK	135	69	19.55			20.5	0.0
100	QPSK	135	138	19.45			20.5	0.0
100	QPSK	270	0	19.53				
100	16QAM	1	1	19.50			20.5	0.0
100	16QAM	1	1	19.03			20.0	0.5
100	256QAM	1	1	17.59			18.0	2.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.47	19.45	19.47	20.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.57	19.43	19.40	20.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.51	19.57	19.49	20.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.58	19.48	19.49	20.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.47	19.48	19.53	20.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.54	19.47	19.50	20.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.53	19.51	19.49	20.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.48	19.50	19.57	20.5	0.0

Part27O n78 PC2 Ant8 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	22.37				
100	PI2 BPSK	1	137	22.44				0.0
100	PI2 BPSK	1	271	22.41				
100	PI2 BPSK	135	69	22.38			23.5	0.0
100	PI2 BPSK	135	69	22.40			23.5	0.0
100	PI2 BPSK	135	138	22.37			23.5	0.0
100	PI2 BPSK	270	0	22.38				
100	QPSK	1	1	22.55				
100	QPSK	1	137	22.52			23.5	0.0
100	QPSK	1	271	22.41				
100	QPSK	135	0	22.44			23.5	0.0
100	QPSK	135	69	22.51			23.5	0.0
100	QPSK	135	138	22.40			23.5	0.0
100	QPSK	270	0	22.47				
100	16QAM	1	1	22.38			23.5	0.0
100	16QAM	1	1	21.93			23.0	0.5
100	256QAM	1	1	20.51			21.0	2.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.42	22.50	22.46	23.5	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.29	22.44	22.43	23.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.42	22.40	22.35	23.5	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.34	22.43	22.44	23.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.35	22.48	22.37	23.5	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.40	22.45	22.40	23.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.42	22.45	22.40	23.5	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.34	22.50	22.41	23.5	0.0



Part27Q n78 Ant8 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		19.11				
100	PI2 BPSK	1	137		19.19		20.5	0.0	
100	PI2 BPSK	1	271		19.22				
100	PI2 BPSK	135	0		19.11		20.5	0.0	
100	PI2 BPSK	135	69		19.16		20.5	0.0	
100	PI2 BPSK	135	138		19.14		20.5	0.0	
100	PI2 BPSK	270	0		19.18				
100	QPSK	1	1		19.33		20.5	0.0	
100	QPSK	1	137		19.31				
100	QPSK	1	271		19.17				
100	QPSK	135	0		19.18		20.5	0.0	
100	QPSK	135	69		19.30		20.5	0.0	
100	QPSK	135	138		19.17		20.5	0.0	
100	QPSK	270	0		19.22				
100	16QAM	1	1		19.24		20.5	0.0	
100	64QAM	1	1		19.78		20.0	0.5	
100	256QAM	1	1		17.95		18.0	2.5	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		19.12	19.24	19.12	20.5	0.0
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3493.02	3500.01	3510			
80	QPSK	1	1		19.15	19.23	19.17	20.5	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1		19.11	19.21	19.18	20.5	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		19.09	19.22	19.10	20.5	0.0
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		19.16	19.24	19.16	20.5	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		19.13	19.28	19.14	20.5	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3462	3500.01	3532.02			
30	QPSK	1	1		19.18	19.21	19.09	20.5	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		19.13	19.17	19.15	20.5	0.0

Part27Q n78 PC2 Ant8 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		22.04				
100	PI2 BPSK	1	137		22.24		23.5	0.0	
100	PI2 BPSK	1	271		22.26				
100	PI2 BPSK	135	0		22.11		23.5	0.0	
100	PI2 BPSK	135	69		22.16		23.5	0.0	
100	PI2 BPSK	135	138		22.11		23.5	0.0	
100	PI2 BPSK	270	0		22.15				
100	QPSK	1	1		22.30				
100	QPSK	1	137		22.29		23.5	0.0	
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.19		23.5	0.0	
100	QPSK	135	69		22.24		23.5	0.0	
100	QPSK	135	138		22.11		23.5	0.0	
100	QPSK	270	0		22.19				
100	16QAM	1	1		22.22		23.5	0.0	
100	64QAM	1	1		21.71		23.5	0.0	
100	256QAM	1	1		20.34		22.0	1.5	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.02	22.19	22.18	23.5	0.0
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		21.99	22.25	22.17	23.5	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1		21.98	22.24	22.22	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		22.06	22.23	22.18	23.5	0.0
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.05	22.25	22.21	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.01	22.15	22.11	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3462	3500.01	3532.02			
30	QPSK	1	1		21.99	22.25	22.14	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		22.02	22.19	22.13	23.5	0.0



Reduced Power Mode for Main PA DS16 Standalone

n2 Ant 0 DS16 sig path: 164									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.16	21.18	21.15	22.0	0.0	
20	PI2 BPSK	1	53	21.02	21.18	21.00			
20	PI2 BPSK	1	104	21.01	21.13	21.04	22.0	0.0	
20	PI2 BPSK	50	0	21.15	21.21	21.19			
20	PI2 BPSK	50	28	21.10	21.18	21.07	22.0	0.0	
20	PI2 BPSK	50	88	21.04	21.24	21.15			
20	PI2 BPSK	100	0	21.17	21.28	21.12	22.0	0.0	
20	QPSK	1	1	21.11	21.29	21.18			
20	QPSK	1	53	20.98	21.18	21.16	22.0	0.0	
20	QPSK	1	104	21.02	21.21	21.04			
20	QPSK	50	0	21.21	21.19	21.20	22.0	0.0	
20	QPSK	50	28	20.90	21.22	21.00			
20	QPSK	50	56	21.11	21.15	21.07	22.0	0.0	
20	QPSK	100	0	21.08	21.17	21.13			
20	16QAM	1	1	21.17	21.18	21.12	22.0	0.0	
20	64QAM	1	1	20.95	20.69	20.50			
20	256QAM	1	1	18.75	18.83	18.63	19.5	2.5	
20	256QAM	1	1	18.75	18.83	18.63			
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.95	21.24	21.18	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.97	21.14	21.07	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.08	21.23	21.04	22.0	0.0	
Channel									
Frequency (MHz)									

n2 Ant 0 DS16 sig path: 429									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.13	21.17	21.18	22.0	0.0	
20	PI2 BPSK	1	53	20.97	21.24	20.98			
20	PI2 BPSK	1	104	21.03	21.11	21.05	22.0	0.0	
20	PI2 BPSK	50	0	21.14	21.20	21.17			
20	PI2 BPSK	50	28	21.08	21.14	21.11	22.0	0.0	
20	PI2 BPSK	50	88	20.98	21.21	21.09			
20	PI2 BPSK	100	0	21.22	21.23	21.11	22.0	0.0	
20	QPSK	1	1	21.14	21.27	21.14			
20	QPSK	1	53	20.98	21.12	21.14	22.0	0.0	
20	QPSK	1	104	20.98	21.22	21.03			
20	QPSK	50	0	21.21	21.16	21.16	22.0	0.0	
20	QPSK	50	28	20.98	21.25	20.97			
20	QPSK	50	56	21.14	21.12	21.12	22.0	0.0	
20	QPSK	100	0	21.10	21.16	21.11			
20	16QAM	1	1	21.17	21.21	21.11	22.0	0.0	
20	64QAM	1	1	20.60	20.84	20.58			
20	256QAM	1	1	18.72	18.83	18.65	19.5	2.5	
20	256QAM	1	1	18.72	18.83	18.65			
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.02	21.17	21.03	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.08	21.16	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.13	21.09	21.03	22.0	0.0	
Channel									
Frequency (MHz)									

n5 Ant 0 DS16 sig path: 168									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 166800	Middle Ch. / Freq. 167300	High Ch. / Freq. 167800			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.12	23.13	23.09	24.0	0.0	
20	PI2 BPSK	1	53	23.07	23.11	23.01			
20	PI2 BPSK	1	104	23.05	23.05	23.85	23.5	0.5	
20	PI2 BPSK	50	0	22.80	22.81	22.50			
20	PI2 BPSK	50	28	22.91	22.97	22.80	23.5	0.5	
20	PI2 BPSK	50	88	22.44	22.83	22.85			
20	PI2 BPSK	100	0	22.42	22.58	22.37	23.0	1.0	
20	QPSK	1	1	23.20	23.22	23.14			
20	QPSK	1	53	23.07	23.11	23.11	24.0	0.0	
20	QPSK	1	104	23.00	23.08	22.98			
20	QPSK	50	0	21.95	21.98	21.84	23.0	1.0	
20	QPSK	50	28	22.85	22.99	22.92			
20	QPSK	50	56	21.98	22.02	22.00	23.0	1.0	
20	QPSK	100	0	22.03	22.08	22.01			
20	16QAM	1	1	22.81	22.02	22.00	23.0	1.0	
20	64QAM	1	1	20.50	20.55	20.41			
20	256QAM	1	1	18.34	18.58	18.51	19.5	4.5	
20	256QAM	1	1	18.34	18.58	18.51			
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.00	23.12	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.12	23.17	23.09	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.00	23.05	23.03	24.0	0.0	
Channel									
Frequency (MHz)									



n5 Ant 0 DS16 sig path: 414

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				166800	167300	167800		
Frequency (MHz)				834	838.5	843		
20	PI2 BPSK	1	1	22.82	22.81	22.89	24.0	0.0
20	PI2 BPSK	1	53	22.68	22.79	22.71		
20	PI2 BPSK	1	104	22.67	22.82	22.79		
20	PI2 BPSK	50	0	22.40	22.42	22.32	23.5	0.5
20	PI2 BPSK	50	58	22.69	22.85	22.72	24.0	0.0
20	PI2 BPSK	50	66	22.17	22.27	22.17	23.5	0.5
20	PI2 BPSK	100	0	22.15	22.32	22.20		
20	QPSK	1	1	22.87	22.92	22.77	24.0	0.0
20	QPSK	1	53	22.70	22.86	22.80		
20	QPSK	1	104	22.82	22.84	22.81		
20	QPSK	50	0	21.81	21.85	21.74	23.0	1.0
20	QPSK	50	38	22.69	22.81	22.76	24.0	0.0
20	QPSK	50	56	21.62	21.77	21.64	23.0	1.0
20	QPSK	100	0	21.73	21.81	21.89		
20	16QAM	1	1	22.14	22.22	22.21	23.0	1.0
20	64QAM	1	1	20.01	20.09	19.94	21.5	2.5
20	256QAM	1	1	18.52	18.55	18.38	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.85	22.75	22.88	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.75	22.75	22.69	24.0	0.0
Channel				163300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.76	22.84	22.81	24.0	0.0

n12 Ant 0 DS16 sig path: 172

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.97	23.04	22.85	24.0	0.0
15	PI2 BPSK	1	40	22.85	22.99	22.87		
15	PI2 BPSK	1	77	22.88	23.02	22.91		
15	PI2 BPSK	36	0	22.53	22.63	22.57	23.5	0.5
15	PI2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI2 BPSK	36	43	22.46	22.56	22.48	23.5	0.5
15	PI2 BPSK	75	0	22.46	22.57	22.51		
15	QPSK	1	1	22.99	23.13	23.03	24.0	0.0
15	QPSK	1	40	23.03	23.09	22.98		
15	QPSK	1	77	22.93	23.05	22.93		
15	QPSK	36	0	21.97	22.03	21.98	23.0	1.0
15	QPSK	36	22	22.97	23.04	22.93	24.0	0.0
15	QPSK	36	43	21.88	21.93	21.87	23.0	1.0
15	QPSK	75	0	21.91	21.99	21.86		
15	16QAM	1	1	21.89	22.02	21.95	23.0	1.0
15	64QAM	1	1	20.54	20.65	20.51	21.5	2.5
15	256QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel				140300	141500	142300		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.89	23.02	22.96	24.0	0.0

n12 Ant 0 DS16 sig path: 417

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.85	22.82	24.0	0.0
15	PI2 BPSK	1	40	22.66	22.78	22.68		
15	PI2 BPSK	1	77	22.70	22.80	22.63		
15	PI2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI2 BPSK	36	22	22.76	22.79	22.74	24.0	0.0
15	PI2 BPSK	36	43	22.26	22.37	22.29	23.5	0.5
15	PI2 BPSK	75	0	22.31	22.46	22.32		
15	QPSK	1	1	22.92	22.93	22.88	24.0	0.0
15	QPSK	1	40	22.62	22.78	22.73		
15	QPSK	1	77	22.74	22.82	22.64		
15	QPSK	36	0	21.88	21.94	21.89	23.0	1.0
15	QPSK	36	22	22.80	22.89	22.88	24.0	0.0
15	QPSK	36	43	21.76	21.88	21.81	23.0	1.0
15	QPSK	75	0	21.80	21.96	21.86		
15	16QAM	1	1	22.20	22.24	22.13	23.0	1.0
15	64QAM	1	1	20.08	20.11	20.08	21.5	2.5
15	256QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel				140300	141500	142300		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.90	22.78	22.79	24.0	0.0



n14 Ant 0 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	793	793	793	24.0	0.0
10	PI2 BPSK	1	26	22.91	22.95	22.95		
10	PI2 BPSK	1	50	22.92	22.92	22.92		
10	PI2 BPSK	25	0	22.47	22.47	22.47	23.5	0.5
10	PI2 BPSK	25	14	23.01	23.01	23.01	24.0	0.0
10	PI2 BPSK	25	27	22.39	22.39	22.39	23.5	0.5
10	PI2 BPSK	50	0	22.33	22.33	22.33		
10	QPSK	1	1	23.08	23.08	23.08	24.0	0.0
10	QPSK	1	26	22.95	22.95	22.95		
10	QPSK	1	50	22.98	22.98	22.98		
10	QPSK	25	0	22.02	22.02	22.02	23.0	1.0
10	QPSK	25	14	22.98	22.98	22.98	24.0	0.0
10	QPSK	25	27	22.09	22.09	22.09	23.0	1.0
10	QPSK	50	0	22.13	22.13	22.13		
10	16QAM	1	1	22.11	22.11	22.11	23.0	1.0
10	64QAM	1	1	20.62	20.62	20.62	21.5	2.5
10	256QAM	1	1	18.63	18.63	18.63	19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	24.0	0.0
5	QPSK	1	1	22.88	22.99	22.98	24.0	0.0

n25 Ant 0 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	1870	1870	1870	22.0	0.0
40	PI2 BPSK	1	108	21.24	21.28	21.21		
40	PI2 BPSK	1	214	21.08	21.28	21.07		
40	PI2 BPSK	1	214	21.10	21.20	21.18	22.0	0.0
40	PI2 BPSK	108	0	21.19	21.25	21.31		
40	PI2 BPSK	108	54	21.25	21.30	21.21	22.0	0.0
40	PI2 BPSK	108	108	21.15	21.32	21.23	22.0	0.0
40	PI2 BPSK	216	0	21.27	21.30	21.18		
40	QPSK	1	1	21.22	21.37	21.30	22.0	0.0
40	QPSK	1	108	21.13	21.32	21.25		
40	QPSK	1	214	21.12	21.28	21.11		
40	QPSK	108	0	21.32	21.28	21.30	22.0	0.0
40	QPSK	108	54	20.99	21.35	21.08	22.0	0.0
40	QPSK	108	108	21.12	21.20	21.14	22.0	0.0
40	QPSK	216	0	21.16	21.28	21.24		
40	16QAM	1	1	21.28	21.28	21.20	22.0	0.0
40	64QAM	1	1	20.70	20.82	20.73	21.5	0.5
40	256QAM	1	1	19.05	19.12	19.03	19.5	2.5
Channel				374000	376500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900	22.0	0.0
30	QPSK	1	1	21.33	21.82	21.10	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	1862.5	1882.5	1902.5	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.15	21.24	21.20	22.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1869	1882.5	1902.5	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.08	21.23	21.18	22.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1882.5	1907.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.16	21.33	21.17	22.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.07	21.28	21.22	22.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1912.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.10	21.30	21.14	22.0	0.0

n26 Ant 0 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	824	813	830	24.0	0.0
20	PI2 BPSK	1	53	22.98	23.13	23.07		
20	PI2 BPSK	1	104	22.97	23.11	22.99		
20	PI2 BPSK	1	104	22.98	23.08	22.98	23.5	0.5
20	PI2 BPSK	50	0	22.67	22.77	22.83		
20	PI2 BPSK	50	28	23.06	23.11	23.03	24.0	0.0
20	PI2 BPSK	50	58	22.83	22.75	22.67	23.5	0.5
20	PI2 BPSK	100	0	22.69	22.78	22.67		
20	QPSK	1	1	23.12	23.17	23.09	24.0	0.0
20	QPSK	1	53	23.08	23.14	23.08		
20	QPSK	1	104	22.97	23.11	23.04		
20	QPSK	50	0	22.10	22.24	22.12	23.0	1.0
20	QPSK	50	28	23.06	23.15	23.07	24.0	0.0
20	QPSK	50	58	22.00	22.13	22.06	23.0	1.0
20	QPSK	100	0	22.19	22.28	22.19		
20	16QAM	1	1	22.29	22.42	22.28	23.0	1.0
20	64QAM	1	1	20.44	20.57	20.48	21.5	2.5
20	256QAM	1	1	18.72	18.86	18.81	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.98	23.11	22.95	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	819	831.5	844	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.05	23.08	23.00	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818.5	831.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.98	23.05	22.98	24.0	0.0



n66 Ant 0 DS16 sig path: 174									
RBW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)									
40	PI2 BPSK	1	1	20.91	20.78	20.74			
40	PI2 BPSK	1	108	20.05	20.78	20.56	22.0	0.0	
40	PI2 BPSK	1	214	20.57	20.70	20.60			
40	PI2 BPSK	108	0	20.72	20.80	20.75	22.0	0.0	
40	PI2 BPSK	108	54	20.72	20.75	20.61	22.0	0.0	
40	PI2 BPSK	108	108	20.63	20.84	20.70			
40	PI2 BPSK	216	0	20.74	20.82	20.77	22.0	0.0	
40	QPSK	1	1	20.70	20.95	20.78			
40	QPSK	1	108	20.63	20.75	20.73	22.0	0.0	
40	QPSK	1	214	20.64	20.75	20.60			
40	QPSK	108	0	20.61	20.78	20.73	22.0	0.0	
40	QPSK	108	54	20.48	20.82	20.65	22.0	0.0	
40	QPSK	108	108	20.74	20.71	20.63			
40	QPSK	216	0	20.63	20.75	20.71	22.0	0.0	
40	16QAM	1	1	20.81	20.74	20.67	22.0	0.0	
40	64QAM	1	1	19.88	20.07	19.92	21.5	0.5	
40	256QAM	1	1	18.43	18.48	18.38	19.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.57	20.61	20.74	22.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.55	20.83	20.72	22.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.60	20.87	20.66	22.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.58	20.90	20.70	22.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.54	20.83	20.70	22.0	0.0	

n66 Ant 0 DS16 sig path: 432									
RBW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)									
40	PI2 BPSK	1	1	20.75	20.70	20.69			
40	PI2 BPSK	1	108	20.58	20.74	20.48	22.0	0.0	
40	PI2 BPSK	1	214	20.46	20.64	20.50			
40	PI2 BPSK	108	0	20.63	20.67	20.69	22.0	0.0	
40	PI2 BPSK	108	54	20.67	20.61	20.53	22.0	0.0	
40	PI2 BPSK	108	108	20.48	20.72	20.57			
40	PI2 BPSK	216	0	20.70	20.74	20.62	22.0	0.0	
40	QPSK	1	1	20.65	20.84	20.68			
40	QPSK	1	108	20.54	20.70	20.67	22.0	0.0	
40	QPSK	1	214	20.54	20.62	20.49			
40	QPSK	108	0	20.58	20.72	20.71	22.0	0.0	
40	QPSK	108	54	20.41	20.74	20.51	22.0	0.0	
40	QPSK	108	108	20.58	20.60	20.57			
40	QPSK	216	0	20.55	20.65	20.60	22.0	0.0	
40	16QAM	1	1	20.66	20.59	20.52	22.0	0.0	
40	64QAM	1	1	20.02	20.04	19.95	21.5	0.5	
40	256QAM	1	1	18.26	18.41	18.33	19.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.51	20.76	20.62	22.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.49	20.80	20.61	22.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.58	20.79	20.60	22.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.52	20.73	20.55	22.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.49	20.70	20.61	22.0	0.0	



n70 Ant 0 DS16									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	340500				
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1	21.08			22.5	0.0	
15	PI2 BPSK	1	40	20.83					
15	PI2 BPSK	1	77	20.89					
15	PI2 BPSK	36	0	20.78			22.5	0.0	
15	PI2 BPSK	36	22	20.74			22.5	0.0	
15	PI2 BPSK	36	43	20.95			22.5	0.0	
15	PI2 BPSK	75	0	20.77			22.5	0.0	
15	QPSK	1	1	21.09			22.5	0.0	
15	QPSK	1	40	20.89					
15	QPSK	1	77	20.77			22.5	0.0	
15	QPSK	36	0	21.00			22.5	0.0	
15	QPSK	36	22	21.05			22.5	0.0	
15	QPSK	36	43	20.96			22.5	0.0	
15	QPSK	75	0	21.02			22.5	0.0	
15	16QAM	1	1	20.82			22.5	0.0	
15	64QAM	1	1	19.93			21.5	1.0	
15	256QAM	1	1	18.18			19.5	3.0	
Channel				340000	340500	341000			
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	20.98	20.99	21.08	22.5	0.0	
Channel				329500	340500	341500			
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	20.87	20.99	20.96	22.5	0.0	

n71 Ant 0 DS16									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100				
Frequency (MHz)				673	680.5	693			
20	PI2 BPSK	1	1	23.07	23.21	23.12			
20	PI2 BPSK	1	53	23.03	23.15	23.01	24.0	0.0	
20	PI2 BPSK	1	104	23.02	23.10	22.95			
20	PI2 BPSK	50	0	22.67	22.73	22.64	23.5	0.5	
20	PI2 BPSK	50	28	23.01	23.11	23.04	24.0	0.0	
20	PI2 BPSK	50	56	22.52	22.62	22.57	23.5	0.5	
20	PI2 BPSK	100	0	22.70	22.77	22.62			
20	QPSK	1	1	23.13	23.24	23.18			
20	QPSK	1	53	23.10	23.21	23.15	24.0	0.0	
20	QPSK	1	104	23.00	23.13	23.08			
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0	
20	QPSK	50	28	23.06	23.18	23.08	24.0	0.0	
20	QPSK	50	56	21.97	22.11	21.97	23.0	1.0	
20	QPSK	100	0	22.10	22.23	22.17			
20	16QAM	1	1	22.37	22.47	22.39	23.0	1.0	
20	64QAM	1	1	20.46	20.60	20.54	21.5	2.5	
20	256QAM	1	1	18.87	18.99	18.84	19.5	4.5	
Channel				134100	136100	138100			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.98	23.10	23.01	24.0	0.0	
Channel				133500	135100	136500			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.99	23.11	23.05	24.0	0.0	



n7 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				50000	50700	51000	
Frequency (MHz)				2550	2535	2550	
40	PI/2 BPSK	1	1	20.81	20.92	20.89	
40	PI/2 BPSK	1	108	20.76	20.83	20.84	21.5
40	PI/2 BPSK	1	214	20.73	20.87	20.89	
40	PI/2 BPSK	108	0	20.81	20.97	20.84	21.5
40	PI/2 BPSK	108	54	20.71	20.81	20.68	21.5
40	PI/2 BPSK	108	108	20.92	20.98	20.91	21.5
40	PI/2 BPSK	216	0	20.95	20.90	20.91	
40	QPSK	1	1	20.84	20.88	20.92	
40	QPSK	1	108	20.65	20.80	20.73	21.5
40	QPSK	1	214	20.79	20.84	20.73	
40	QPSK	108	0	20.80	20.91	20.75	21.5
40	QPSK	108	54	20.76	20.83	20.87	21.5
40	QPSK	108	108	20.80	20.81	20.78	21.5
40	QPSK	216	0	20.83	20.89	20.82	
40	16QAM	1	1	20.92	20.97	20.88	21.5
40	16QAM	1	1	20.39	20.52	20.41	21.5
40	256QAM	1	1	18.81	18.84	18.83	19.5
Channel				50300	50700	51000	
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	20.78	20.86	20.81	21.5
Channel				50200	50700	511500	
Frequency (MHz)				2512.5	2535	2527.5	
25	QPSK	1	1	20.80	20.82	20.78	21.5
Channel				50200	50700	512000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.71	20.83	20.82	21.5
Channel				501500	50700	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	20.77	20.88	20.86	21.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	20.70	20.90	20.78	21.5
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2587.5	
5	QPSK	1	1	20.68	20.82	20.79	21.5

n30 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				46000	46200	46200	
Frequency (MHz)				2310	2310	2310	
10	PI/2 BPSK	1	1	21.84	21.84	21.84	
10	PI/2 BPSK	1	26	21.62	21.62	21.62	22.5
10	PI/2 BPSK	1	50	21.69	21.69	21.69	
10	PI/2 BPSK	25	0	21.71	21.71	21.71	22.5
10	PI/2 BPSK	25	14	21.68	21.68	21.68	22.5
10	PI/2 BPSK	25	27	21.58	21.58	21.58	22.5
10	PI/2 BPSK	50	0	21.70	21.70	21.70	
10	QPSK	1	1	21.82	21.82	21.82	
10	QPSK	1	26	21.69	21.69	21.69	22.5
10	QPSK	1	50	21.85	21.85	21.85	
10	QPSK	25	0	21.58	21.58	21.58	22.5
10	QPSK	25	14	21.88	21.88	21.88	22.5
10	QPSK	25	27	21.60	21.60	21.60	22.5
10	QPSK	50	0	21.69	21.69	21.69	
10	16QAM	1	1	21.79	21.79	21.79	22.5
10	16QAM	1	1	20.29	20.29	20.29	21.5
10	256QAM	1	1	18.74	18.74	18.74	19.5
Channel				461500	462000	462500	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	21.78	21.88	21.85	22.5



n41 Ant 1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				52620	51858	52900		
Frequency (MHz)								
100	PI2 BPSK	1	1	20.76	20.83	20.83		
100	PI2 BPSK	1	137	20.85	20.70	20.75		
100	PI2 BPSK	1	271	20.59	20.74	20.55		
100	PI2 BPSK	135	0	20.85	20.91	20.78	22.0	0.0
100	PI2 BPSK	135	69	20.59	20.75	20.53	22.0	0.0
100	PI2 BPSK	135	138	20.87	20.89	20.82	22.0	0.0
100	PI2 BPSK	270	0	20.83	20.76	20.80		
100	QPSK	1	1	20.73	20.93	20.84		
100	QPSK	1	137	20.50	20.73	20.58	22.0	0.0
100	QPSK	1	271	20.64	20.77	20.62		
100	QPSK	135	0	20.66	20.79	20.65	22.0	0.0
100	QPSK	135	69	20.89	20.84	20.85	22.0	0.0
100	QPSK	135	138	20.71	20.86	20.73	22.0	0.0
100	QPSK	270	0	20.76	20.83	20.87		
100	16QAM	1	1	20.77	20.87	20.76	22.0	0.0
100	16QAM	1	1	20.11	20.22	20.10	21.5	0.5
100	256QAM	1	1	18.33	18.47	18.38	19.5	2.5
Channel								
				52620	51858	52900		
Frequency (MHz)								
90	QPSK	1	1	20.60	20.83	20.80	22.0	0.0
Channel								
				507204	518598	529998		
Frequency (MHz)								
80	QPSK	1	1	20.53	20.86	20.80	22.0	0.0
Channel								
				505202	518596	531000		
Frequency (MHz)								
70	QPSK	1	1	20.68	20.87	20.78	22.0	0.0
Channel								
				505200	518596	531996		
Frequency (MHz)								
60	QPSK	1	1	20.81	20.85	20.70	22.0	0.0
Channel								
				504204	518598	532998		
Frequency (MHz)								
50	QPSK	1	1	20.64	20.85	20.72	22.0	0.0
Channel								
				503202	518598	534000		
Frequency (MHz)								
40	QPSK	1	1	20.58	20.78	20.70	22.0	0.0
Channel								
				502200	518598	534998		
Frequency (MHz)								
30	QPSK	1	1	20.58	20.78	20.70	22.0	0.0
Channel								
				501204	518598	535998		
Frequency (MHz)								
20	QPSK	1	1	20.81	20.81	20.72	22.0	0.0

n41 PC2 Ant 1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				52620	51858	52900		
Frequency (MHz)								
100	PI2 BPSK	1	1	23.83	23.92	23.97		
100	PI2 BPSK	1	137	23.75	23.82	23.85	25.0	0.0
100	PI2 BPSK	1	271	23.74	23.78	23.89		
100	PI2 BPSK	135	0	23.76	23.87	23.82	25.0	0.0
100	PI2 BPSK	135	69	23.71	23.87	23.83	25.0	0.0
100	PI2 BPSK	135	138	23.97	23.96	23.97	25.0	0.0
100	PI2 BPSK	270	0	23.91	23.89	23.94		
100	QPSK	1	1	23.85	24.07	23.96		
100	QPSK	1	137	23.55	23.78	23.63	25.0	0.0
100	QPSK	1	271	23.78	23.88	23.75		
100	QPSK	135	0	23.77	23.91	23.89	25.0	0.0
100	QPSK	135	69	23.79	23.93	23.72	25.0	0.0
100	QPSK	135	138	23.87	23.88	23.96	25.0	0.0
100	QPSK	270	0	23.84	23.91	23.77		
100	16QAM	1	1	23.83	23.91	23.88	25.0	0.0
100	16QAM	1	1	23.25	23.33	23.17	24.5	0.5
100	256QAM	1	1	21.83	21.97	21.85	22.5	2.5
Channel								
				508200	518598	530996		
Frequency (MHz)								
90	QPSK	1	1	23.78	23.97	23.91	25.0	0.0
Channel								
				507204	518598	529998		
Frequency (MHz)								
80	QPSK	1	1	23.69	23.98	23.89	25.0	0.0
Channel								
				505202	518598	531000		
Frequency (MHz)								
70	QPSK	1	1	23.69	24.01	23.90	25.0	0.0
Channel								
				505200	518598	531996		
Frequency (MHz)								
60	QPSK	1	1	23.75	24.03	23.87	25.0	0.0
Channel								
				504204	518598	532998		
Frequency (MHz)								
50	QPSK	1	1	23.73	23.99	23.85	25.0	0.0
Channel								
				503202	518598	534000		
Frequency (MHz)								
40	QPSK	1	1	23.80	24.00	23.82	25.0	0.0
Channel								
				502200	518598	534998		
Frequency (MHz)								
30	QPSK	1	1	23.70	23.99	23.84	25.0	0.0
Channel								
				501204	518598	535998		
Frequency (MHz)								
20	QPSK	1	1	23.77	23.97	23.86	25.0	0.0

Part270 n77 Ant 1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				65020	65000	65300		
Frequency (MHz)								
100	PI2 BPSK	1	1	17.83	17.88	17.94		
100	PI2 BPSK	1	137	17.81	17.87	17.82	19.5	0.0
100	PI2 BPSK	1	271	17.70	17.84	17.84		
100	PI2 BPSK	135	0	17.84	17.96	17.87	19.5	0.0
100	PI2 BPSK	135	69	17.75	17.76	17.70	19.5	0.0
100	PI2 BPSK	135	138	17.91	17.98	17.87	19.5	0.0
100	PI2 BPSK	270	0	17.98	17.94	17.92		
100	QPSK	1	1	17.85	18.06	17.98		
100	QPSK	1	137	17.84	17.75	17.74	19.5	0.0
100	QPSK	1	271	17.76	17.83	17.73		
100	QPSK	135	0	17.85	17.87	17.78	19.5	0.0
100	QPSK	135	69	17.72	17.88	17.78	19.5	0.0
100	QPSK	135	138	17.84	17.85	17.86	19.5	0.0
100	QPSK	270	0	17.80	17.88	17.83		
100	16QAM	1	1	17.88	17.95	17.94	19.5	0.0
100	16QAM	1	1	16.85	16.96	16.83	18.5	1.0
100	256QAM	1	1	14.68	14.78	14.71	16.5	3.0
Channel								
				64900	65000	65300		
Frequency (MHz)								
90	QPSK	1	1	17.73	18.00	17.86	19.5	0.0
Channel								
				648334	650000	662998		
Frequency (MHz)								
80	QPSK	1	1	17.73	18.01	17.82	19.5	0.0
Channel								
				649000	650000	663000		
Frequency (MHz)								
70	QPSK	1	1	17.70	18.02	17.93	19.5	0.0
Channel								
				648668	650000	663334		
Frequency (MHz)								
60	QPSK	1	1	17.80	17.92	17.89	19.5	0.0
Channel								
				648334	650000	663668		
Frequency (MHz)								
50	QPSK	1	1	17.72	17.94	17.91	19.5	0.0
Channel								
				649000	650000	664000		
Frequency (MHz)								
40	QPSK	1	1	17.72	17.99	17.94	19.5	0.0
Channel								
				647668	650000	664334		
Frequency (MHz)								
30	QPSK	1	1	17.77	17.97	17.93	19.5	0.0
Channel								
				647334	650000	664668		
Frequency (MHz)								
20	QPSK	1	1	17.73	17.93	17.85	19.5	0.0



Part270 n77 PC2 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	3750	3840	3930	
100	PI2 BPSK	1	137	20.76	20.91	20.92	
100	PI2 BPSK	1	271	20.75	20.84	20.80	0.0
100	PI2 BPSK	135	6	20.81	20.92	20.90	22.5
100	PI2 BPSK	135	69	20.79	20.71	20.87	22.5
100	PI2 BPSK	135	138	20.94	20.92	20.85	0.0
100	PI2 BPSK	270	0	20.92	20.99	20.95	0.0
100	QPSK	1	1	20.79	21.07	21.01	0.0
100	QPSK	1	137	20.80	20.80	20.78	22.5
100	QPSK	1	271	20.71	20.81	20.68	0.0
100	QPSK	135	0	20.80	20.84	20.81	22.5
100	QPSK	135	69	20.74	20.96	20.74	0.0
100	QPSK	135	138	20.86	20.86	20.88	0.0
100	QPSK	270	0	20.75	20.93	20.78	22.5
100	16QAM	1	1	20.91	20.97	20.96	0.0
100	16QAM	1	1	20.46	20.42	20.37	21.5
100	256QAM	1	1	18.42	18.47	18.28	3.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	64934	65000	65268	MPR
Channel							
Frequency (MHz)							
80	QPSK	1	1	3745.02	3840	3935.01	MPR
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.74	21.01	20.92	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	64934	65000	65268	MPR
Channel							
Frequency (MHz)							
50	QPSK	1	1	3725.01	3840	3955.02	MPR
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.65	21.00	20.91	22.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	64768	65000	65400	MPR
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.70	20.93	20.96	0.0

Part27Q n77 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	3499.98	3533.92		
100	PI2 BPSK	1	137	18.74	18.72	18.84	
100	PI2 BPSK	1	271	18.75	18.79	18.80	19.5
100	PI2 BPSK	135	6	18.81	18.81	18.81	19.5
100	PI2 BPSK	135	69	18.80	18.79	18.79	19.5
100	PI2 BPSK	135	138	18.73	18.73	18.73	19.5
100	PI2 BPSK	270	0	18.70	18.70	18.70	0.0
100	QPSK	1	1	18.82	18.82	18.82	19.5
100	QPSK	1	137	18.78	18.78	18.78	0.0
100	QPSK	1	271	18.67	18.67	18.67	19.5
100	QPSK	135	0	18.83	18.83	18.83	19.5
100	QPSK	135	69	18.74	18.74	18.74	19.5
100	QPSK	135	138	18.67	18.67	18.67	19.5
100	QPSK	270	0	18.71	18.71	18.71	0.0
100	16QAM	1	1	18.80	18.80	18.80	19.5
100	16QAM	1	1	17.87	17.87	17.87	18.5
100	256QAM	1	1	15.74	15.74	15.74	3.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	63380	63332	63386	MPR
Channel							
Frequency (MHz)							
80	QPSK	1	1	3495	3499.98	3504.99	MPR
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.76	18.80	18.77	19.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	63200	63332	63466	MPR
Channel							
Frequency (MHz)							
50	QPSK	1	1	3475.02	3499.98	3525	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.88	18.79	18.77	19.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	63100	63332	63566	MPR
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.76	18.74	18.76	19.5

Part27Q n77 PC2 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	3499.98	3533.92		
100	PI2 BPSK	1	137	18.74	18.72	18.84	22.5
100	PI2 BPSK	1	271	18.75	18.79	18.80	0.0
100	PI2 BPSK	135	0	18.81	18.81	18.81	22.5
100	PI2 BPSK	135	69	18.80	18.79	18.79	0.0
100	PI2 BPSK	135	138	18.73	18.73	18.73	22.5
100	PI2 BPSK	270	0	18.70	18.70	18.70	0.0
100	QPSK	1	1	18.82	18.82	18.82	22.5
100	QPSK	1	137	18.78	18.78	18.78	0.0
100	QPSK	1	271	18.67	18.67	18.67	0.0
100	QPSK	135	0	18.83	18.83	18.83	22.5
100	QPSK	135	69	18.74	18.74	18.74	0.0
100	QPSK	135	138	18.67	18.67	18.67	22.5
100	QPSK	270	0	18.71	18.71	18.71	0.0
100	16QAM	1	1	18.76	18.76	18.76	22.5
100	16QAM	1	1	17.87	17.87	17.87	21.5
100	256QAM	1	1	15.74	15.74	15.74	3.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	63380	63332	63386	MPR
Channel							
Frequency (MHz)							
80	QPSK	1	1	3495	3499.98	3504.99	MPR
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.75	18.80	18.77	22.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	63200	63332	63466	MPR
Channel							
Frequency (MHz)							
50	QPSK	1	1	3475.02	3499.98	3525	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.88	18.79	18.77	22.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	63100	63332	63566	MPR
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.73	18.81	18.81	22.5



Part270 n78 Ant 1 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	18.22	18.22	18.22			
100	PI2 BPSK	1	137	18.31	18.31	18.31	19.5	0.0	
100	PI2 BPSK	1	271	18.28	18.28	18.28			
100	PI2 BPSK	135	0	18.39	18.39	18.39	19.5	0.0	
100	PI2 BPSK	135	69	18.07	18.07	18.07	19.5	0.0	
100	PI2 BPSK	135	138	18.33	18.33	18.33	19.5	0.0	
100	PI2 BPSK	270	0	18.25	18.25	18.25			
100	QPSK	1	1	18.48	18.48	18.48	19.5	0.0	
100	QPSK	1	137	18.16	18.16	18.16			
100	QPSK	1	271	18.25	18.25	18.25			
100	QPSK	135	0	18.28	18.28	18.28	19.5	0.0	
100	QPSK	135	69	18.39	18.39	18.39	19.5	0.0	
100	QPSK	135	138	18.36	18.36	18.36	19.5	0.0	
100	QPSK	270	0	18.34	18.34	18.34			
100	16QAM	1	1	18.42	18.42	18.42	19.5	0.0	
100	16QAM	1	1	17.22	17.22	17.22	18.5	1.0	
100	256QAM	1	1	15.06	15.06	15.06	16.5	3.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	19.5	0.0	
90	QPSK	1	1	18.36	18.36	18.36	19.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	19.5	0.0	
80	QPSK	1	1	18.31	18.34	18.35	19.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	19.5	0.0	
70	QPSK	1	1	18.33	18.38	18.43	19.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	19.5	0.0	
60	QPSK	1	1	18.40	18.42	18.43	19.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	19.5	0.0	
50	QPSK	1	1	18.40	18.39	18.39	19.5	0.0	
Channel				647868	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	19.5	0.0	
40	QPSK	1	1	18.37	18.37	18.32	19.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	19.5	0.0	
30	QPSK	1	1	18.39	18.43	18.33	19.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	19.5	0.0	
20	QPSK	1	1	18.29	18.44	18.32	19.5	0.0	

Part270 n78 PC2 Ant 1 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	21.23	21.23	21.23			
100	PI2 BPSK	1	137	21.26	21.26	21.26	22.5	0.0	
100	PI2 BPSK	1	271	21.28	21.28	21.28			
100	PI2 BPSK	135	0	21.33	21.33	21.33	22.5	0.0	
100	PI2 BPSK	135	69	21.09	21.09	21.09	22.5	0.0	
100	PI2 BPSK	135	138	21.29	21.29	21.29	22.5	0.0	
100	PI2 BPSK	270	0	21.30	21.30	21.30			
100	QPSK	1	1	21.46	21.46	21.46	22.5	0.0	
100	QPSK	1	137	21.16	21.16	21.16			
100	QPSK	1	271	21.24	21.24	21.24			
100	QPSK	135	0	21.30	21.30	21.30	22.5	0.0	
100	QPSK	135	69	21.38	21.38	21.38	22.5	0.0	
100	QPSK	135	138	21.26	21.26	21.26	22.5	0.0	
100	QPSK	270	0	21.31	21.31	21.31			
100	16QAM	1	1	21.41	21.41	21.41	22.5	0.0	
100	16QAM	1	1	20.45	20.45	20.45	21.5	1.0	
100	256QAM	1	1	18.82	18.82	18.82	19.5	3.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	19.5	0.0	
90	QPSK	1	1	21.30	21.35	21.45	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	19.5	0.0	
80	QPSK	1	1	21.41	21.43	21.42	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	19.5	0.0	
70	QPSK	1	1	21.32	21.44	21.43	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	19.5	0.0	
60	QPSK	1	1	21.34	21.45	21.34	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	19.5	0.0	
50	QPSK	1	1	21.41	21.38	21.35	22.5	0.0	
Channel				647868	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	19.5	0.0	
40	QPSK	1	1	21.42	21.39	21.37	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	19.5	0.0	
30	QPSK	1	1	21.40	21.38	21.37	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	19.5	0.0	
20	QPSK	1	1	21.36	21.34	21.40	22.5	0.0	



Part27Q n78 Ant 1 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		18.90				
100	PI2 BPSK	1	137		19.02		19.5	0.0	
100	PI2 BPSK	1	271		18.93				
100	PI2 BPSK	135	0		19.08		19.5	0.0	
100	PI2 BPSK	135	69		18.84		19.5	0.0	
100	PI2 BPSK	135	138		19.02		19.5	0.0	
100	PI2 BPSK	270	0		18.99				
100	QPSK	1	1		18.11				
100	QPSK	1	137		18.86		19.5	0.0	
100	QPSK	1	271		19.02				
100	QPSK	135	0		18.93		19.5	0.0	
100	QPSK	135	69		19.03		19.5	0.0	
100	QPSK	135	138		18.96				
100	QPSK	270	0		19.05		19.5	0.0	
100	16QAM	1	1		19.06		19.5	0.0	
100	16QAM	1	1		18.34		18.5	1.0	
100	256QAM	1	1		18.15		18.5	3.0	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.61	18.67	18.65	19.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.61	18.75	18.63	19.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1	18.65	18.72	18.72	19.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.71	18.71	18.68	19.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505			
50	QPSK	1	1	18.89	18.87	18.65	19.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.68	18.70	18.75	19.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.70	18.65	18.69	19.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.88	18.73	18.69	19.5	0.0	

Part27Q n78 PC2 Ant 1 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		21.90				
100	PI2 BPSK	1	137		21.98		22.5	0.0	
100	PI2 BPSK	1	271		21.96				
100	PI2 BPSK	135	0		22.10		22.5	0.0	
100	PI2 BPSK	135	69		21.80		22.5	0.0	
100	PI2 BPSK	135	138		22.03		22.5	0.0	
100	PI2 BPSK	270	0		22.00				
100	QPSK	1	1		22.17				
100	QPSK	1	137		21.87		22.5	0.0	
100	QPSK	1	271		21.98				
100	QPSK	135	0		21.94		22.5	0.0	
100	QPSK	135	69		22.00		22.5	0.0	
100	QPSK	135	138		21.84				
100	QPSK	270	0		21.90		22.5	0.0	
100	16QAM	1	1		22.03		22.5	0.0	
100	16QAM	1	1		20.63		21.5	1.0	
100	256QAM	1	1		18.74		19.5	3.0	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	21.66	21.67	21.60	22.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	21.56	21.71	21.63	22.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1	21.56	21.66	21.68	22.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	21.64	21.70	21.62	22.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505			
50	QPSK	1	1	21.63	21.72	21.60	22.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	21.57	21.67	21.61	22.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	21.63	21.62	21.63	22.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	21.66	21.69	21.70	22.5	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								
				50200	51898	53000		
Frequency (MHz)								
100	PI2 BPSK	1	1	20.88	20.99	20.80		
100	PI2 BPSK	1	137	20.81	20.87	20.88		0.0
100	PI2 BPSK	1	271	20.83	21.03	20.77		
100	PI2 BPSK	135	0	20.90	21.05	20.89	22.0	0.0
100	PI2 BPSK	135	69	20.79	20.98	20.81	22.0	0.0
100	PI2 BPSK	135	138	20.97	21.05	20.98	22.0	0.0
100	PI2 BPSK	270	0	21.03	21.03	20.99		
100	QPSK	1	1	20.99	21.09	20.97		
100	QPSK	1	137	20.75	20.92	20.81	22.0	0.0
100	QPSK	1	271	20.91	20.88	20.83		
100	QPSK	135	0	20.91	21.02	20.82	22.0	0.0
100	QPSK	135	69	20.92	21.05	20.89	22.0	0.0
100	QPSK	135	138	20.86	21.01	20.86	22.0	0.0
100	QPSK	270	0	20.91	20.97	20.91		
100	16QAM	1	1	20.99	21.01	21.03	22.0	0.0
100	64QAM	1	1	20.41	20.54	20.23	21.5	0.5
100	256QAM	1	1	18.50	18.88	18.32	19.5	2.5
Channel								
				50200	51898	53000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	20.90	21.00	20.85	22.0	0.0
Channel								
				507204	51898	52998	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	20.98	21.00	20.84	22.0	0.0
Channel								
				502002	51898	53100	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	20.94	21.00	20.83	22.0	0.0
Channel								
				502200	51898	53198	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	20.88	21.01	20.82	22.0	0.0
Channel								
				504204	51898	53298	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	20.88	20.98	20.83	22.0	0.0
Channel								
				502002	51898	53000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	20.94	20.93	20.90	22.0	0.0
Channel								
				502200	51898	53498	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	20.92	20.95	20.81	22.0	0.0
Channel								
				501204	51898	53398	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	20.89	20.98	20.82	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								
				50200	51898	53000		
Frequency (MHz)								
100	PI2 BPSK	1	1	23.87	24.03	23.98		
100	PI2 BPSK	1	137	23.83	23.82	23.84		0.0
100	PI2 BPSK	1	271	23.79	24.06	23.77		
100	PI2 BPSK	135	0	23.92	23.99	23.88	25.0	0.0
100	PI2 BPSK	135	69	23.83	24.00	23.83	25.0	0.0
100	PI2 BPSK	135	138	23.96	24.02	23.92	25.0	0.0
100	PI2 BPSK	270	0	23.98	24.01	24.02		
100	QPSK	1	1	23.97	24.14	23.95		
100	QPSK	1	137	23.73	23.96	23.78	25.0	0.0
100	QPSK	1	271	23.85	23.85	23.80		
100	QPSK	135	0	23.94	24.03	23.82	25.0	0.0
100	QPSK	135	69	23.91	24.09	23.84	25.0	0.0
100	QPSK	135	138	23.81	23.96	23.88	25.0	0.0
100	QPSK	270	0	23.87	23.98	23.88		
100	16QAM	1	1	24.01	23.97	24.03	25.0	0.0
100	64QAM	1	1	23.82	23.98	23.84	24.5	0.5
100	256QAM	1	1	21.82	21.89	21.78	22.5	2.5
Channel								
				50200	51898	53000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	23.90	24.00	23.83	25.0	0.0
Channel								
				507204	51898	52998	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	23.84	23.99	23.87	25.0	0.0
Channel								
				502002	51898	53100	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	23.93	23.94	23.85	25.0	0.0
Channel								
				502200	51898	53198	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	23.89	23.97	23.80	25.0	0.0
Channel								
				504204	51898	53298	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	23.91	24.01	23.82	25.0	0.0
Channel								
				502002	51898	53000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	23.85	23.94	23.88	25.0	0.0
Channel								
				502200	51898	53498	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	23.95	24.05	23.80	25.0	0.0
Channel								
				501204	51898	53398	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	23.86	24.04	23.82	25.0	0.0

Part270 n77 Ant 2 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				65000	65000	65000		
Frequency (MHz)								
100	PI2 BPSK	1	1	15.16	15.36	15.27		
100	PI2 BPSK	1	137	15.11	15.24	15.20		0.0
100	PI2 BPSK	1	271	15.10	15.30	15.14		
100	PI2 BPSK	135	0	15.24	15.36	15.28	16.5	0.0
100	PI2 BPSK	135	69	15.06	15.22	15.03	16.5	0.0
100	PI2 BPSK	135	138	15.31	15.38	15.28	16.5	0.0
100	PI2 BPSK	270	0	15.34	15.33	15.27		
100	QPSK	1	1	15.24	15.41	15.36		
100	QPSK	1	137	15.04	15.24	15.12	16.5	0.0
100	QPSK	1	271	15.17	15.29	15.11		
100	QPSK	135	0	15.21	15.25	15.14	16.5	0.0
100	QPSK	135	69	15.13	15.35	15.20	16.5	0.0
100	QPSK	135	138	15.18	15.28	15.17	16.5	0.0
100	QPSK	270	0	15.21	15.28	15.21		
100	16QAM	1	1	15.27	15.32	15.28	16.5	0.0
100	64QAM	1	1	15.07	15.38	15.34	16.5	0.0
100	256QAM	1	1	14.88	15.17	15.07	16.5	0.0
Channel								
				649334	65000	66234	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	15.14	15.28	15.22	16.5	0.0
Channel								
				649334	65000	66298	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	15.19	15.31	15.26	16.5	0.0
Channel								
				649300	65000	66300	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	15.18	15.28	15.28	16.5	0.0
Channel								
				648668	65000	66334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	15.18	15.35	15.20	16.5	0.0
Channel								
				648334	65000	66368	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	15.09	15.25	15.24	16.5	0.0
Channel								
				645000	65000	66400	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	15.10	15.31	15.22	16.5	0.0
Channel								
				647668	65000	66434	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	15.09	15.33	15.22	16.5	0.0
Channel								
				647334	65000	66468	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	15.14	15.31	15.26	16.5	0.0



Part270 n77 PC2 Ant 2 DSI6									
BW [MHz]	Modulation	RB 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	18.18	18.34	18.24			
100	Pi2 BPSK	1	137	18.06	18.29	18.19	19.5	0.0	
100	Pi2 BPSK	1	271	18.08	18.27	18.09			
100	Pi2 BPSK	135	0	18.21	18.32	18.33	19.5	0.0	
100	Pi2 BPSK	135	69	18.02	18.26	18.08	19.5	0.0	
100	Pi2 BPSK	135	138	18.27	18.37	18.25	19.5	0.0	
100	Pi2 BPSK	270	0	18.35	18.32	18.30			
100	QPSK	1	1	18.25	18.40	18.37			
100	QPSK	1	137	18.07	18.25	18.15	19.5	0.0	
100	QPSK	1	271	18.19	18.27	18.05			
100	QPSK	135	0	18.19	18.26	18.08	19.5	0.0	
100	QPSK	135	69	18.09	18.29	18.25	19.5	0.0	
100	QPSK	135	138	18.15	18.22	18.22	19.5	0.0	
100	QPSK	270	0	18.13	18.21	18.12			
100	16QAM	1	1	18.31	18.26	18.28	19.5	0.0	
100	64QAM	1	1	18.17	18.33	18.33	19.5	0.0	
100	256QAM	1	1	17.84	18.20	18.01	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.12	18.23	18.18	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.09	18.29	18.21	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.14	18.31	18.22	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.10	18.26	18.22	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.09	18.28	18.25	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.16	18.24	18.24	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.11	18.31	18.25	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.18	18.34	18.21	19.5	0.0	

Part27Q n77 Ant 2 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		15.94				
100	Pi2 BPSK	1	137		15.88		16.5	0.0	
100	Pi2 BPSK	1	271		15.90				
100	Pi2 BPSK	135	0		15.91		16.5	0.0	
100	Pi2 BPSK	135	69		15.79		16.5	0.0	
100	Pi2 BPSK	135	138		15.93		16.5	0.0	
100	Pi2 BPSK	270	0		15.87				
100	QPSK	1	1		15.99		16.5	0.0	
100	QPSK	1	137		15.76				
100	QPSK	1	271		15.81				
100	QPSK	135	0		15.88		16.5	0.0	
100	QPSK	135	69		15.92		16.5	0.0	
100	QPSK	135	138		15.83		16.5	0.0	
100	QPSK	270	0		15.84				
100	16QAM	1	1		15.92		16.5	0.0	
100	64QAM	1	1		15.97		16.5	0.0	
100	256QAM	1	1		15.67		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.73	15.84	15.77	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.71	15.91	15.83	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.76	15.81	15.81	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.75	15.89	15.81	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.73	15.92	15.77	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.71	15.87	15.80	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.72	15.88	15.81	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.65	15.82	15.77	16.5	0.0	

Part27Q n77 PC2 Ant 2 DSI6									
BW [MHz]	Modulation	RB 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		18.88				
100	Pi2 BPSK	1	137		18.87		19.5	0.0	
100	Pi2 BPSK	1	271		18.86				
100	Pi2 BPSK	135	0		18.87		19.5	0.0	
100	Pi2 BPSK	135	69		18.71		19.5	0.0	
100	Pi2 BPSK	135	138		18.93		19.5	0.0	
100	Pi2 BPSK	270	0		18.86				
100	QPSK	1	1		18.97		19.5	0.0	
100	QPSK	1	137		18.88				
100	QPSK	1	271		18.74				
100	QPSK	135	0		18.83		19.5	0.0	
100	QPSK	135	69		18.82		19.5	0.0	
100	QPSK	135	138		18.84		19.5	0.0	
100	QPSK	270	0		18.80				
100	16QAM	1	1		18.84		19.5	0.0	
100	64QAM	1	1		18.80		19.5	0.0	
100	256QAM	1	1		18.63		19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.65	18.78	18.74	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.65	18.76	18.68	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.74	18.74	18.70	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.71	18.82	18.68	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.65	18.80	18.69	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.72	18.80	18.76	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.69	18.82	18.75	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.70	18.82	18.73	19.5	0.0	



Part270 n78 Ant 2 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	16.19	16.19	16.19			
100	PI2 BPSK	1	137	16.15	16.15	16.15	17.5	0.0	
100	PI2 BPSK	1	271	16.14	16.14	16.14			
100	PI2 BPSK	135	0	16.15	16.15	16.15	17.5	0.0	
100	PI2 BPSK	135	69	16.06	16.06	16.06	17.5	0.0	
100	PI2 BPSK	135	138	16.16	16.16	16.16	17.5	0.0	
100	PI2 BPSK	270	0	16.19	16.19	16.19			
100	QPSK	1	1	16.27	16.27	16.27	17.5	0.0	
100	QPSK	1	137	16.08	16.08	16.08			
100	QPSK	1	271	16.10	16.10	16.10			
100	QPSK	135	0	16.00	16.00	16.00	17.5	0.0	
100	QPSK	135	69	16.15	16.15	16.15	17.5	0.0	
100	QPSK	135	138	16.06	16.06	16.06	17.5	0.0	
100	QPSK	270	0	16.09	16.09	16.09	17.5	0.0	
100	16QAM	1	1	16.25	16.25	16.25	17.5	0.0	
100	64QAM	1	1	16.25	16.25	16.25	17.5	0.0	
100	256QAM	1	1	15.91	15.91	15.91	17.5	0.0	
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.96	16.18	16.06	17.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.00	16.15	16.10	17.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.96	16.10	16.03	17.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1	16.00	16.12	16.04	17.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.96	16.19	16.06	17.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.07	16.13	16.08	17.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	15.99	16.13	16.11	17.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.06	16.17	16.06	17.5	0.0	

Part270 n78 PC2 Ant 2 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	19.17	19.17	19.17			
100	PI2 BPSK	1	137	19.08	19.08	19.08	20.5	0.0	
100	PI2 BPSK	1	271	19.16	19.16	19.16			
100	PI2 BPSK	135	0	19.09	19.09	19.09	20.5	0.0	
100	PI2 BPSK	135	69	19.03	19.03	19.03	20.5	0.0	
100	PI2 BPSK	135	138	19.09	19.09	19.09	20.5	0.0	
100	PI2 BPSK	270	0	19.14	19.14	19.14			
100	QPSK	1	1	19.23	19.23	19.23	20.5	0.0	
100	QPSK	1	137	19.07	19.07	19.07			
100	QPSK	1	271	19.03	19.03	19.03			
100	QPSK	135	0	19.12	19.12	19.12	20.5	0.0	
100	QPSK	135	69	19.20	19.20	19.20	20.5	0.0	
100	QPSK	135	138	19.16	19.16	19.16	20.5	0.0	
100	QPSK	270	0	19.12	19.12	19.12	20.5	0.0	
100	16QAM	1	1	19.19	19.19	19.19	20.5	0.0	
100	64QAM	1	1	19.14	19.14	19.14	20.5	0.0	
100	256QAM	1	1	19.04	19.04	19.04	20.5	0.0	
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.96	19.13	19.10	20.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.03	19.19	19.09	20.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.94	19.21	19.02	20.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1	18.92	19.12	19.07	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.90	19.13	18.99	20.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.89	19.12	18.98	20.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	19.00	19.13	19.09	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.90	19.11	19.04	20.5	0.0	



Part27Q n78 Ant 2 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI/2 BPSK	1	1	16.31	16.31	16.31	
100	PI/2 BPSK	1	137	16.30	16.30	16.30	17.5
100	PI/2 BPSK	1	271	16.33	16.33	16.33	17.5
100	PI/2 BPSK	135	0	16.24	16.24	16.24	17.5
100	PI/2 BPSK	135	69	16.25	16.25	16.25	17.5
100	PI/2 BPSK	135	138	16.25	16.25	16.25	17.5
100	PI/2 BPSK	270	0	16.32	16.32	16.32	17.5
100	QPSK	1	1	16.37	16.37	16.37	17.5
100	QPSK	1	137	16.28	16.28	16.28	17.5
100	QPSK	1	271	16.28	16.28	16.28	17.5
100	QPSK	135	0	16.25	16.25	16.25	17.5
100	QPSK	135	69	16.31	16.31	16.31	17.5
100	QPSK	135	138	16.18	16.18	16.18	17.5
100	QPSK	270	0	16.22	16.22	16.22	17.5
100	16QAM	1	1	16.31	16.31	16.31	17.5
100	64QAM	1	1	16.28	16.28	16.28	17.5
100	256QAM	1	1	16.14	16.14	16.14	17.5
Channel				633090		633668	
Frequency (MHz)				3495		3500.01	
90	QPSK	1	1	16.11	16.28	16.23	17.5
Channel				632668		634000	
Frequency (MHz)				3490.02		3500.01	
80	QPSK	1	1	16.09	16.29	16.26	17.5
Channel				632334		634334	
Frequency (MHz)				3485.01		3500.01	
70	QPSK	1	1	16.17	16.28	16.21	17.5
Channel				632090		634668	
Frequency (MHz)				3480		3500.01	
60	QPSK	1	1	16.07	16.31	16.20	17.5
Channel				631668		635000	
Frequency (MHz)				3475.02		3500.01	
50	QPSK	1	1	16.05	16.32	16.17	17.5
Channel				631334		635334	
Frequency (MHz)				3470.01		3500.01	
40	QPSK	1	1	16.13	16.29	16.27	17.5
Channel				631090		635668	
Frequency (MHz)				3465		3500.01	
30	QPSK	1	1	16.07	16.35	16.22	17.5
Channel				630668		636000	
Frequency (MHz)				3460.02		3500.01	
20	QPSK	1	1	16.08	16.34	16.17	17.5

Part27Q n78 PC2 Ant 2 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI/2 BPSK	1	1	16.31	16.31	16.31	
100	PI/2 BPSK	1	137	16.26	16.26	16.26	20.5
100	PI/2 BPSK	1	271	16.23	16.23	16.23	20.5
100	PI/2 BPSK	135	0	16.15	16.15	16.15	20.5
100	PI/2 BPSK	135	69	16.20	16.20	16.20	20.5
100	PI/2 BPSK	135	138	16.17	16.17	16.17	20.5
100	PI/2 BPSK	270	0	16.31	16.31	16.31	20.5
100	QPSK	1	1	16.35	16.35	16.35	20.5
100	QPSK	1	137	16.23	16.23	16.23	20.5
100	QPSK	1	271	16.23	16.23	16.23	20.5
100	QPSK	135	0	16.17	16.17	16.17	20.5
100	QPSK	135	69	16.23	16.23	16.23	20.5
100	QPSK	135	138	16.15	16.15	16.15	20.5
100	QPSK	270	0	16.17	16.17	16.17	20.5
100	16QAM	1	1	16.28	16.28	16.28	20.5
100	64QAM	1	1	16.17	16.17	16.17	20.5
100	256QAM	1	1	16.08	16.08	16.08	20.5
Channel				633090		633668	
Frequency (MHz)				3495		3500.01	
90	QPSK	1	1	19.04	19.19	19.15	20.5
Channel				632668		634000	
Frequency (MHz)				3490.02		3500.01	
80	QPSK	1	1	19.02	19.29	19.18	20.5
Channel				632334		634334	
Frequency (MHz)				3485.01		3500.01	
70	QPSK	1	1	19.09	19.19	19.18	20.5
Channel				632090		634668	
Frequency (MHz)				3480		3500.01	
60	QPSK	1	1	19.03	19.26	19.14	20.5
Channel				631668		635000	
Frequency (MHz)				3475.02		3500.01	
50	QPSK	1	1	19.04	19.29	19.23	20.5
Channel				631334		635334	
Frequency (MHz)				3470.01		3500.01	
40	QPSK	1	1	19.08	19.25	19.23	20.5
Channel				631090		635668	
Frequency (MHz)				3465		3500.01	
30	QPSK	1	1	19.00	19.17	19.21	20.5
Channel				630668		636000	
Frequency (MHz)				3460.02		3500.01	
20	QPSK	1	1	19.09	19.28	19.12	20.5



n2 Ant 4 DSI6 sig path: 164

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.23	18.33	18.30		
20	PI2 BPSK	1	53	18.17	18.24	18.21	19.5	0.0
20	PI2 BPSK	1	104	18.16	18.24	18.07		
20	PI2 BPSK	50	0	18.18	18.39	18.26	19.5	0.0
20	PI2 BPSK	50	28	18.08	18.18	18.08	19.5	0.0
20	PI2 BPSK	50	56	18.37	18.36	18.33	19.5	0.0
20	PI2 BPSK	100	0	18.36	18.32	18.36		
20	QPSK	1	1	18.26	18.41	18.34		
20	QPSK	1	53	18.05	18.22	18.18	19.5	0.0
20	QPSK	1	104	18.14	18.30	18.17		
20	QPSK	50	0	18.24	18.30	18.13	19.5	0.0
20	QPSK	50	28	18.17	18.39	18.09	19.5	0.0
20	QPSK	50	56	18.27	18.21	18.24	19.5	0.0
20	QPSK	100	0	18.17	18.28	18.25		
20	16QAM	1	1	18.31	18.33	18.23	19.5	0.0
20	16QAM	1	1	18.27	18.23	18.21	19.5	0.0
20	256QAM	1	1	17.47	17.52	17.49	18.5	1.0
Channel								
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.12	18.28	18.20	19.5	0.0
Channel								
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.19	18.28	18.28	19.5	0.0
Channel								
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.19	18.32	18.28	19.5	0.0

n2 Ant 4 DSI6 sig path: 429

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.07	18.10	18.15		
20	PI2 BPSK	1	53	17.97	18.04	18.04	19.5	0.0
20	PI2 BPSK	1	104	17.94	18.05	17.81		
20	PI2 BPSK	50	0	17.96	18.22	18.09	19.5	0.0
20	PI2 BPSK	50	28	17.92	17.98	17.90	19.5	0.0
20	PI2 BPSK	50	56	18.23	18.17	18.18	19.5	0.0
20	PI2 BPSK	100	0	18.15	18.15	18.20		
20	QPSK	1	1	18.01	18.24	18.19		
20	QPSK	1	53	17.86	17.98	17.98	19.5	0.0
20	QPSK	1	104	17.97	18.16	18.02		
20	QPSK	50	0	18.08	18.14	17.98	19.5	0.0
20	QPSK	50	28	17.92	18.22	17.93	19.5	0.0
20	QPSK	50	56	18.04	18.02	18.07	19.5	0.0
20	QPSK	100	0	17.92	18.10	18.07		
20	16QAM	1	1	18.12	18.09	17.99	19.5	0.0
20	16QAM	1	1	18.03	17.99	18.04	19.5	0.0
20	256QAM	1	1	17.31	17.47	17.33	18.5	1.0
Channel								
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	17.87	18.02	18.04	19.5	0.0
Channel								
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	17.91	18.11	17.95	19.5	0.0
Channel								
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	17.94	18.08	18.02	19.5	0.0

n5 Ant 4 DSI6 sig path: 168

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.90	23.02	22.92		
20	PI2 BPSK	1	53	22.85	22.96	22.86	24.0	0.0
20	PI2 BPSK	1	104	22.76	22.98	22.73		
20	PI2 BPSK	50	0	22.44	22.52	22.39	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.97	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.45	22.55	22.42	23.5	0.5
20	PI2 BPSK	100	0	22.47	22.57	22.44		
20	QPSK	1	1	23.01	23.08	22.99		
20	QPSK	1	53	22.92	23.03	22.93	24.0	0.0
20	QPSK	1	104	22.75	22.86	22.77		
20	QPSK	50	0	21.91	22.05	21.99	23.0	1.0
20	QPSK	50	28	22.83	22.98	22.87	24.0	0.0
20	QPSK	50	56	21.87	22.01	21.89	23.0	1.0
20	QPSK	100	0	21.92	22.05	21.98		
20	16QAM	1	1	21.09	21.13	21.06	23.0	1.0
20	16QAM	1	1	20.51	20.56	20.51	21.5	2.5
20	256QAM	1	1	18.52	18.63	18.48	19.5	4.5
Channel								
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.93	23.00	22.85	24.0	0.0
Channel								
Frequency (MHz)				16800	16730	16880		
10	QPSK	1	1	22.93	22.97	22.91	24.0	0.0
Channel								
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.88	22.91	22.82	24.0	0.0



n5 Ant 4 DSI6 sig path: 414

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				16890	16700	16790		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.98	23.02	22.86		
20	PI2 BPSK	1	53	22.82	22.99	22.94	24.0	0.0
20	PI2 BPSK	1	104	22.92	23.04	22.87		
20	PI2 BPSK	50	0	22.55	22.61	22.56	23.5	0.5
20	PI2 BPSK	50	26	22.79	22.91	22.82	24.0	0.0
20	PI2 BPSK	50	56	22.56	22.56	22.38	23.5	0.5
20	PI2 BPSK	100	0	22.40	22.50	22.32		
20	QPSK	1	1	23.05	23.08	22.92		
20	QPSK	1	53	22.81	22.98	22.80	24.0	0.0
20	QPSK	1	104	23.00	23.01	22.88		
20	QPSK	50	0	22.10	22.12	22.04	23.0	1.0
20	QPSK	50	26	22.78	22.84	22.79	24.0	0.0
20	QPSK	50	56	21.90	21.97	21.94	23.0	1.0
20	QPSK	100	0	21.52	22.01	21.99		
20	16QAM	1	1	22.20	22.27	22.08	23.0	1.0
20	16QAM	1	1	20.32	20.46	20.45	21.5	2.5
20	256QAM	1	1	18.99	19.04	18.94	19.5	4.5
Channel				16830	16730	16830	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	835.5	841.5		
15	QPSK	1	1	23.01	22.89	22.80	24.0	0.0
Channel				16580	16730	16880	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.85	23.00	22.87	24.0	0.0
Channel				16530	16730	16530	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	836.5	846.5		
5	QPSK	1	1	23.01	22.91	22.91	24.0	0.0

n12 Ant 4 DSI6 sig path: 172

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				14130	14150	14170		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.16	23.22	23.11		
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0
15	PI2 BPSK	1	77	23.01	23.13	22.99		
15	PI2 BPSK	36	0	22.64	22.75	22.66	23.5	0.5
15	PI2 BPSK	36	22	23.11	23.17	23.07	24.0	0.0
15	PI2 BPSK	36	43	22.56	22.69	22.61	23.5	0.5
15	PI2 BPSK	75	0	22.85	22.77	22.67		
15	QPSK	1	1	23.19	23.23	23.15		
15	QPSK	1	40	23.07	23.18	23.09	24.0	0.0
15	QPSK	1	77	22.98	23.08	23.00		
15	QPSK	36	0	22.23	22.29	22.17	23.0	1.0
15	QPSK	36	22	23.07	23.15	23.00	24.0	0.0
15	QPSK	36	43	22.08	22.16	22.09	23.0	1.0
15	QPSK	75	0	22.15	22.23	22.11		
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0
15	16QAM	1	1	20.45	20.53	20.39	21.5	2.5
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5
Channel				14030	14150	14230	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0
Channel				14030	14150	14270	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0

n12 Ant 4 DSI6 sig path: 417

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				14130	14150	14170		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.93	23.02	22.93		
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0
15	PI2 BPSK	1	77	22.91	22.95	22.89		
15	PI2 BPSK	36	0	22.49	22.63	22.44	23.5	0.5
15	PI2 BPSK	36	22	22.99	22.95	22.89	24.0	0.0
15	PI2 BPSK	36	43	22.42	22.55	22.42	23.5	0.5
15	PI2 BPSK	75	0	22.51	22.58	22.67		
15	QPSK	1	1	23.00	23.08	22.99		
15	QPSK	1	40	22.97	22.98	22.91	24.0	0.0
15	QPSK	1	77	22.86	23.02	22.88		
15	QPSK	36	0	22.05	22.11	22.05	23.0	1.0
15	QPSK	36	22	22.75	22.89	22.78	24.0	0.0
15	QPSK	36	43	21.90	21.98	21.94	23.0	1.0
15	QPSK	75	0	21.97	22.05	22.02		
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0
15	16QAM	1	1	20.32	20.48	20.32	21.5	2.5
15	256QAM	1	1	18.94	19.09	19.07	19.5	4.5
Channel				14030	14150	14230	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0
Channel				14030	14150	14270	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.84	22.90	22.84	24.0	0.0



n14 Ant 4 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				15900				
10	PI2 BPSK	1	1	22.80			24.0	0.0
10	PI2 BPSK	1	26	22.56				
10	PI2 BPSK	1	50	22.51			23.5	0.5
10	PI2 BPSK	25	0	22.19			24.0	0.0
10	PI2 BPSK	25	14	22.61			23.5	0.5
10	PI2 BPSK	25	27	22.17			24.0	0.0
10	PI2 BPSK	50	0	22.22			23.0	1.0
10	QPSK	1	1	22.63			24.0	0.0
10	QPSK	1	26	22.58			23.0	1.0
10	QPSK	1	50	22.49			23.0	1.0
10	QPSK	25	0	21.76			24.0	0.0
10	QPSK	25	14	22.45			23.0	1.0
10	QPSK	25	27	21.66			23.0	1.0
10	QPSK	50	0	21.71			23.0	1.0
10	16QAM	1	1	21.80			21.5	2.5
10	16QAM	1	1	19.91			19.5	4.5
10	256QAM	1	1	18.23			18.0	5.0
Channel				158180	159000	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.48	22.52	22.41	24.0	0.0

n25 Ant 4 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37600				
40	PI2 BPSK	1	1	18.41	18.37	18.46	19.5	0.0
40	PI2 BPSK	1	108	18.25	18.29	18.31		
40	PI2 BPSK	1	214	18.30	18.38	18.12	19.5	0.0
40	PI2 BPSK	108	0	18.30	18.51	18.35	19.5	0.0
40	PI2 BPSK	108	54	18.28	18.33	18.18	19.5	0.0
40	PI2 BPSK	108	108	18.52	18.41	18.46	19.5	0.0
40	PI2 BPSK	216	0	18.48	18.42	18.53	19.5	0.0
40	QPSK	1	1	18.27	18.57	18.47	19.5	0.0
40	QPSK	1	108	18.16	18.25	18.31		
40	QPSK	1	214	18.24	18.44	18.29	19.5	0.0
40	QPSK	108	0	18.32	18.49	18.30	19.5	0.0
40	QPSK	108	54	18.22	18.51	18.22	19.5	0.0
40	QPSK	108	108	18.33	18.37	18.41	19.5	0.0
40	QPSK	216	0	18.19	18.41	18.32	19.5	0.0
40	16QAM	1	1	18.42	18.45	18.28	19.5	0.0
40	16QAM	1	1	18.36	18.28	18.32	19.5	0.0
40	256QAM	1	1	17.58	17.66	17.60	18.5	1.0
Channel				376000	376000	380000		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	18.16	18.45	18.36	19.5	0.0
Channel				372500	376000	380600		
Frequency (MHz)				1862.5	1882.5	1902.5		
25	QPSK	1	1	18.19	18.52	18.40	19.5	0.0
Channel				372000	376000	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	18.19	18.44	18.43	19.5	0.0
Channel				371500	376000	381500		
Frequency (MHz)				1857.5	1882.5	1897.5		
15	QPSK	1	1	18.14	18.43	18.33	19.5	0.0
Channel				371000	376000	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	18.20	18.50	18.35	19.5	0.0
Channel				370500	376000	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	18.17	18.50	18.32	19.5	0.0

n26 Ant 4 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16500				
20	PI2 BPSK	1	1	22.91	23.01	22.93	24.0	0.0
20	PI2 BPSK	1	53	22.87	22.97	22.88		
20	PI2 BPSK	1	104	22.81	22.88	22.74	23.5	0.5
20	PI2 BPSK	50	0	22.48	22.62	22.50	24.0	0.0
20	PI2 BPSK	50	28	22.96	23.04	22.99	24.0	0.0
20	PI2 BPSK	50	56	22.47	22.54	22.42	23.5	0.5
20	PI2 BPSK	100	0	22.48	22.62	22.57	24.0	0.0
20	QPSK	1	1	22.96	23.06	23.01	24.0	0.0
20	QPSK	1	53	22.86	23.03	22.89		
20	QPSK	1	104	22.77	22.89	22.83	23.0	1.0
20	QPSK	50	0	21.94	22.07	21.98	23.0	1.0
20	QPSK	50	28	22.89	23.03	22.84	24.0	0.0
20	QPSK	50	56	21.56	22.05	21.84	23.0	1.0
20	QPSK	100	0	22.04	22.14	22.05	23.0	1.0
20	16QAM	1	1	22.11	22.19	22.13	23.0	1.0
20	64QAM	1	1	20.05	20.19	20.13	21.5	2.5
20	256QAM	1	1	18.81	18.96	18.82	19.5	4.5
Channel				164300	165000	165300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.84	22.97	22.91	24.0	0.0
Channel				163800	166300	166800		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.88	23.01	22.85	24.0	0.0
Channel				163300	166300	166300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.90	22.95	22.88	24.0	0.0



n66 Ant 4 DSI6 sig path: 174							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	19.43	19.54	19.56	
40	PI2 BPSK	1	108	19.41	19.49	19.39	0.0
40	PI2 BPSK	1	214	19.36	19.48	19.16	
40	PI2 BPSK	108	0	19.31	19.58	19.51	20.5
40	PI2 BPSK	108	54	19.38	19.35	19.36	20.5
40	PI2 BPSK	108	108	19.03	19.60	19.56	20.5
40	PI2 BPSK	216	0	19.53	19.51	19.59	
40	QPSK	1	1	19.40	19.54	19.54	
40	QPSK	1	108	19.30	19.34	19.38	20.5
40	QPSK	1	214	19.35	19.56	19.40	
40	QPSK	108	0	19.47	19.56	19.43	20.5
40	QPSK	108	54	19.32	19.58	19.29	20.5
40	QPSK	108	108	19.39	19.40	19.34	20.5
40	QPSK	216	0	19.34	19.45	19.43	20.5
40	16QAM	1	1	19.52	19.45	19.40	20.5
40	16QAM	1	1	19.39	19.41	19.43	20.5
40	256QAM	1	1	17.68	17.73	17.59	18.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	19.27	19.58	19.45	20.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	19.32	19.50	19.40	20.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.30	19.54	19.46	20.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	19.30	19.50	19.44	20.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	19.27	19.57	19.41	20.5

n66 Ant 4 DSI6 sig path: 432							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	19.35	19.39	19.46	
40	PI2 BPSK	1	108	19.30	19.38	19.34	20.5
40	PI2 BPSK	1	214	19.26	19.38	19.07	
40	PI2 BPSK	108	0	19.24	19.42	19.44	20.5
40	PI2 BPSK	108	54	19.30	19.29	19.31	20.5
40	PI2 BPSK	108	108	19.51	19.52	19.50	20.5
40	PI2 BPSK	216	0	19.48	19.37	19.46	
40	QPSK	1	1	19.34	19.56	19.48	
40	QPSK	1	108	19.18	19.25	19.32	20.5
40	QPSK	1	214	19.31	19.50	19.32	
40	QPSK	108	0	19.43	19.48	19.29	20.5
40	QPSK	108	54	19.23	19.52	19.15	20.5
40	QPSK	108	108	19.23	19.30	19.29	20.5
40	QPSK	216	0	19.22	19.33	19.32	20.5
40	16QAM	1	1	19.38	19.39	19.32	20.5
40	16QAM	1	1	19.27	19.39	19.27	20.5
40	256QAM	1	1	17.51	17.66	17.56	18.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	19.17	19.43	19.36	20.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	19.22	19.45	19.30	20.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.12	19.46	19.40	20.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	19.16	19.43	19.38	20.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	19.15	19.53	19.39	20.5

n70 Ant 4 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	345500	
Frequency (MHz)				1702.5			
15	PI2 BPSK	1	1		20.04		
15	PI2 BPSK	1	40		19.95		21.5
15	PI2 BPSK	1	77		20.06		
15	PI2 BPSK	36	0		20.09		21.5
15	PI2 BPSK	36	22		19.81		21.5
15	PI2 BPSK	36	43		20.14		21.5
15	PI2 BPSK	75	0		20.09		
15	QPSK	1	1		20.17		
15	QPSK	1	40		19.80		21.5
15	QPSK	1	77		20.01		
15	QPSK	36	0		20.00		21.5
15	QPSK	36	22		20.02		21.5
15	QPSK	36	43		19.92		
15	QPSK	75	0		19.96		21.5
15	16QAM	1	1		19.97		21.5
15	16QAM	1	1		18.98		20.5
15	16QAM	1	1		17.27		18.5
Channel				345000	345500	341000	
Frequency (MHz)				1700	1702.5	1705	
10	QPSK	1	1	20.01	20.11	20.10	21.5
Channel				339500	340500	341500	
Frequency (MHz)				1697.5	1702.5	1707.5	
5	QPSK	1	1	20.09	20.12	20.06	21.5



n71 Ant 4 DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				13600	13600	13600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.87	22.88	22.92		
20	PI/2 BPSK	1	53	22.78	22.91	22.83	24.0	0.0
20	PI/2 BPSK	1	104	22.68	22.76	22.83		
20	PI/2 BPSK	50	0	22.48	22.57	22.46	23.5	0.5
20	PI/2 BPSK	50	28	22.86	22.95	22.89	24.0	0.0
20	PI/2 BPSK	50	56	22.34	22.45	22.39	23.5	0.5
20	PI/2 BPSK	100	0	22.42	22.57	22.47		
20	QPSK	1	1	22.91	23.05	22.97		
20	QPSK	1	53	22.80	22.92	22.86	24.0	0.0
20	QPSK	1	104	22.68	22.76	22.70		
20	QPSK	50	0	21.86	21.98	21.81	23.0	1.0
20	QPSK	50	28	22.92	22.67	22.90	24.0	0.0
20	QPSK	50	56	21.85	21.85	21.86	23.0	1.0
20	QPSK	100	0	22.00	22.07	22.01		
20	16QAM	1	1	22.31	22.37	22.23	23.0	1.0
20	16QAM	1	1	20.18	20.30	20.25	21.5	2.5
20	256QAM	1	1	18.66	18.73	18.65	19.5	4.5
Channel				13410	13410	13410		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.83	22.94	22.92	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				665	680.5	693		
10	QPSK	1	1	22.80	22.88	22.86	24.0	0.0
Channel				133100	135100	137100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.78	22.91	22.86	24.0	0.0



n41 Ant 4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.91	20.07	19.95			
100	PI2 BPSK	1	137	19.86	20.01	19.89	21.0	0.0	
100	PI2 BPSK	1	271	19.79	19.87	19.73			
100	PI2 BPSK	135	0	19.31	19.42	19.30	20.5	0.5	
100	PI2 BPSK	135	69	19.93	20.00	19.95	21.0	0.0	
100	PI2 BPSK	135	138	19.24	19.37	19.26	20.5	0.5	
100	PI2 BPSK	270	0	19.35	19.44	19.37			
100	QPSK	1	1	20.09	20.12	20.06			
100	QPSK	1	137	19.97	20.06	19.93	21.0	0.0	
100	QPSK	1	271	19.82	19.90	19.79			
100	QPSK	135	0	18.93	18.97	18.82	20.0	1.0	
100	QPSK	135	69	19.78	19.88	19.74	21.0	0.0	
100	QPSK	135	138	18.74	18.85	18.80	20.0	1.0	
100	QPSK	270	0	18.76	18.91	18.77			
100	16QAM	1	1	18.87	18.99	18.88	20.0	1.0	
100	16QAM	1	1	17.39	17.54	17.43	18.5	2.5	
100	256QAM	1	1	15.39	15.49	15.37	16.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.93	20.04	19.92	21.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.05	20.00	19.98	21.0	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	19.87	20.02	19.92	21.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.95	20.07	19.99	21.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.93	19.98	19.92	21.0	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.95	20.01	20.02	21.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	19.29	19.39	19.36	21.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.90	20.00	20.01	21.0	0.0	

n41 PC2 Ant 4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.90	22.98	22.89			
100	PI2 BPSK	1	137	22.89	22.93	22.85	24.0	0.0	
100	PI2 BPSK	1	271	22.83	22.88	22.78			
100	PI2 BPSK	135	0	22.78	22.87	22.81	23.5	0.5	
100	PI2 BPSK	135	69	22.83	22.92	22.85	24.0	0.0	
100	PI2 BPSK	135	138	22.72	22.79	22.75	23.5	0.5	
100	PI2 BPSK	270	0	22.79	22.84	22.80			
100	QPSK	1	1	22.93	23.03	22.98			
100	QPSK	1	137	22.83	22.90	22.82	24.0	0.0	
100	QPSK	1	271	22.81	22.86	22.82			
100	QPSK	135	0	22.78	22.83	22.69	23.0	1.0	
100	QPSK	135	69	22.83	22.96	22.81	24.0	0.0	
100	QPSK	135	138	22.72	22.81	22.86	23.0	1.0	
100	QPSK	270	0	22.79	22.87	22.81			
100	16QAM	1	1	22.90	22.95	22.79	23.0	1.0	
100	16QAM	1	1	20.94	21.07	21.00	21.5	2.5	
100	256QAM	1	1	19.01	19.09	19.04	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.77	22.97	22.94	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.85	22.98	22.91	24.0	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	22.81	22.90	22.91	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.82	22.98	22.86	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.79	22.85	22.84	24.0	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.77	22.94	22.88	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.81	22.89	22.90	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.84	22.96	22.85	24.0	0.0	



n48 Part96 Ant 5 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	20.67	20.69	20.70		
40	PI2 BPSK	1	53	20.57	20.70	20.63	22.0	0.0
40	PI2 BPSK	1	104	20.52	20.66	20.43		
40	PI2 BPSK	50	0	20.54	20.79	20.65	22.0	0.0
40	PI2 BPSK	50	26	20.48	20.64	20.54	22.0	0.0
40	PI2 BPSK	50	56	20.78	20.77	20.80	22.0	0.0
40	PI2 BPSK	100	0	20.71	20.70	20.79		
40	QPSK	1	1	20.57	20.64	20.74		
40	QPSK	1	53	20.45	20.51	20.59	22.0	0.0
40	QPSK	1	104	20.63	20.74	20.56		
40	QPSK	50	0	20.73	20.72	20.56	22.0	0.0
40	QPSK	50	26	20.57	20.78	20.48	22.0	0.0
40	QPSK	50	56	20.62	20.62	20.72		
40	QPSK	100	0	20.55	20.66	20.63	22.0	0.0
40	16QAM	1	1	20.77	20.71	20.63	22.0	0.0
40	16QAM	1	1	20.43	20.49	20.37	21.5	0.5
40	256QAM	1	1	18.29	18.33	18.25	19.5	2.5
Channel								
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	20.45	20.78	20.59	22.0	0.0
Channel								
Frequency (MHz)				6373.34	641666	646000		
20	QPSK	1	1	20.47	20.75	20.63	22.0	0.0
Channel								
Frequency (MHz)				3555	3624.99	3684.98		
10	QPSK	1	1	20.48	20.78	20.68	22.0	0.0

Part270 n77 Ant 5 DSI6

BW (MHz)	Modulation	RB 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	19.34	19.40	19.45		
100	PI2 BPSK	1	137	19.31	19.34	19.33	20.5	0.0
100	PI2 BPSK	1	271	19.25	19.34	19.12		
100	PI2 BPSK	135	0	19.27	19.51	19.38	20.5	0.0
100	PI2 BPSK	135	69	19.23	19.31	19.22	20.5	0.0
100	PI2 BPSK	135	138	19.53	19.51	19.45	20.5	0.0
100	PI2 BPSK	270	0	19.48	19.50	19.47		
100	QPSK	1	1	19.35	19.34	19.49		
100	QPSK	1	137	19.21	19.25	19.33	20.5	0.0
100	QPSK	1	271	19.33	19.51	19.28		
100	QPSK	135	0	19.40	19.45	19.29	20.5	0.0
100	QPSK	135	69	19.22	19.50	19.26	20.5	0.0
100	QPSK	135	138	19.38	19.34	19.36	20.5	0.0
100	QPSK	270	0	19.18	19.45	19.33		
100	16QAM	1	1	19.43	19.38	19.29	20.5	0.0
100	16QAM	1	1	19.38	19.24	19.34	20.5	0.0
100	256QAM	1	1	18.22	18.35	18.29	19.5	1.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.20	19.47	19.40	20.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	19.22	19.44	19.42	20.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	19.29	19.50	19.37	20.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	19.25	19.49	19.41	20.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	19.25	19.39	19.41	20.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.21	19.45	19.35	20.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	19.25	19.45	19.38	20.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	19.31	19.41	19.38	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	3840	3930		
100	PI2 BPSK	1	1	22.34	22.33	22.51		
100	PI2 BPSK	1	137	22.38	22.45	22.43	23.5	0.0
100	PI2 BPSK	1	271	22.37	22.34	22.38		
100	PI2 BPSK	135	0	22.32	22.33	22.57	23.5	0.0
100	PI2 BPSK	135	69	22.38	22.43	22.41	23.5	0.0
100	PI2 BPSK	135	138	22.37	22.33	22.28	23.5	0.0
100	PI2 BPSK	270	0	22.36	22.41	22.38		
100	QPSK	1	1	22.47	22.38	22.53		
100	QPSK	1	137	22.35	22.47	22.45	23.5	0.0
100	QPSK	1	271	22.39	22.48	22.44		
100	QPSK	135	0	22.42	22.40	22.47	23.5	0.0
100	QPSK	135	69	22.51	22.54	22.50	23.5	0.0
100	QPSK	135	138	22.51	22.43	22.42	23.5	0.0
100	QPSK	270	0	22.43	22.50	22.48		
100	16QAM	1	1	22.48	22.48	22.31	23.5	0.0
100	16QAM	1	1	22.29	22.25	22.55	23.5	0.0
100	256QAM	1	1	21.24	21.33	21.18	22.5	1.0
Channel								
Frequency (MHz)				648668	656000	663234		
90	QPSK	1	1	22.35	22.47	22.43	23.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.33	22.49	22.43	23.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	22.32	22.42	22.48	23.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	22.37	22.52	22.49	23.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	22.37	22.50	22.40	23.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.34	22.42	22.41	23.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	22.42	22.49	22.37	23.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	22.38	22.46	22.47	23.5	0.0



Part27Q n77 Ant 5 DSI6

BW [MHz]	Modulation	RB 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	18.09				
100	PI2 BPSK	1	137	18.97			20.5	0.0
100	PI2 BPSK	1	271	18.99				
100	PI2 BPSK	135	0	18.17			20.5	0.0
100	PI2 BPSK	135	69	18.92			20.5	0.0
100	PI2 BPSK	135	138	18.11			20.5	0.0
100	PI2 BPSK	270	0	19.16				
100	QPSK	1	1	19.19			20.5	0.0
100	QPSK	1	137	18.89				
100	QPSK	1	271	19.16				
100	QPSK	135	0	19.12			20.5	0.0
100	QPSK	135	69	19.17			20.5	0.0
100	QPSK	135	138	18.86			20.5	0.0
100	QPSK	270	0	19.07				
100	16QAM	1	1	18.06			20.5	0.0
100	16QAM	1	1	18.84			20.5	0.0
100	256QAM	1	1	18.06			19.5	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.96	19.13	19.04	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.96	19.09	19.05	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.96	19.11	19.06	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.91	19.12	18.97	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.95	19.07	19.01	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.99	19.04	19.04	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.95	19.13	19.09	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.97	19.07	18.98	20.5	0.0

Part27Q n77 PC2 Ant 5 DSI6

BW [MHz]	Modulation	RB 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	21.96				
100	PI2 BPSK	1	137	22.06			23.5	0.0
100	PI2 BPSK	1	271	21.96				
100	PI2 BPSK	135	0	21.84			23.5	0.0
100	PI2 BPSK	135	69	22.07			23.5	0.0
100	PI2 BPSK	135	138	21.97			23.5	0.0
100	PI2 BPSK	270	0	22.06				
100	QPSK	1	1	22.18			23.5	0.0
100	QPSK	1	137	22.07				
100	QPSK	1	271	22.11				
100	QPSK	135	0	22.02			23.5	0.0
100	QPSK	135	69	22.15			23.5	0.0
100	QPSK	135	138	22.01			23.5	0.0
100	QPSK	270	0	22.09				
100	16QAM	1	1	22.17			23.5	0.0
100	16QAM	1	1	21.84			23.5	0.0
100	256QAM	1	1	20.96			22.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.94	22.04	22.02	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.95	22.09	22.01	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.03	22.10	22.01	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.96	22.12	22.03	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.99	22.13	21.97	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.95	22.14	22.02	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.99	22.02	22.04	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.99	22.11	21.99	23.5	0.0

Part27O n78 Ant 5 DSI6

BW [MHz]	Modulation	RB 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	19.58				
100	PI2 BPSK	1	137	19.48			20.5	0.0
100	PI2 BPSK	1	271	19.48				
100	PI2 BPSK	135	0	19.84			20.5	0.0
100	PI2 BPSK	135	69	19.43			20.5	0.0
100	PI2 BPSK	135	138	19.62			20.5	0.0
100	PI2 BPSK	270	0	19.63				
100	QPSK	1	1	19.74			20.5	0.0
100	QPSK	1	137	19.33				
100	QPSK	1	271	19.67				
100	QPSK	135	0	19.61			20.5	0.0
100	QPSK	135	69	19.72			20.5	0.0
100	QPSK	135	138	19.46			20.5	0.0
100	QPSK	270	0	19.54				
100	16QAM	1	1	19.58			20.5	0.0
100	16QAM	1	1	19.43			20.5	0.0
100	256QAM	1	1	18.54			19.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.55	19.66	19.54	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.53	19.64	19.61	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.55	19.67	19.51	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.52	19.60	19.58	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.54	19.62	19.67	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.50	19.68	19.51	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.57	19.67	19.55	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.50	19.58	19.60	20.5	0.0



Part270 n78 PC2 Ant 5 DSI6								
BW [MHz]	Modulation	RB 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		22.38			
100	PI2 BPSK	1	137		22.50			0.0
100	PI2 BPSK	1	271		22.42			
100	PI2 BPSK	135	0		22.44			23.5 0.0
100	PI2 BPSK	135	69		22.54			23.5 0.0
100	PI2 BPSK	135	138		22.40			23.5 0.0
100	PI2 BPSK	270	0		22.50			
100	QPSK	1	1		22.76			
100	QPSK	1	137		22.55			23.5 0.0
100	QPSK	1	271		22.83			
100	QPSK	135	0		22.56			23.5 0.0
100	QPSK	135	69		22.69			23.5 0.0
100	QPSK	135	138		22.52			23.5 0.0
100	QPSK	270	0		22.84			
100	16QAM	1	1		22.61			23.5 0.0
100	16QAM	1	1		22.34			23.5 0.0
100	256QAM	1	1		21.38			22.5 1.0
Channel				648668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1		22.57	22.83	22.58	23.5 0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1		22.59	22.82	22.54	23.5 0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1		22.49	22.61	22.55	23.5 0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1		22.52	22.62	22.53	23.5 0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1		22.55	22.84	22.53	23.5 0.0
Channel				647668	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1		22.50	22.55	22.51	23.5 0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3783.01		
30	QPSK	1	1		22.55	22.59	22.57	23.5 0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1		22.48	22.61	22.55	23.5 0.0

Part27Q n78 Ant 5 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		19.50			
100	PI2 BPSK	1	137		19.33			20.5 0.0
100	PI2 BPSK	1	271		19.43			
100	PI2 BPSK	135	0		19.82			20.5 0.0
100	PI2 BPSK	135	69		19.26			20.5 0.0
100	PI2 BPSK	135	138		19.47			20.5 0.0
100	PI2 BPSK	270	0		19.57			
100	QPSK	1	1		19.54			
100	QPSK	1	137		19.23			20.5 0.0
100	QPSK	1	271		19.60			
100	QPSK	135	0		19.47			20.5 0.0
100	QPSK	135	69		19.61			20.5 0.0
100	QPSK	135	138		19.40			20.5 0.0
100	QPSK	270	0		19.57			
100	16QAM	1	1		19.52			20.5 0.0
100	16QAM	1	1		19.29			20.5 0.0
100	256QAM	1	1		18.47			19.5 1.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1		19.37	19.49	19.46	20.5 0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1		19.43	19.50	19.47	20.5 0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1		19.43	19.58	19.53	20.5 0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1		19.40	19.49	19.47	20.5 0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1		19.37	19.58	19.45	20.5 0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1		19.35	19.55	19.54	20.5 0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1		19.43	19.59	19.54	20.5 0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1		19.37	19.50	19.54	20.5 0.0

Part27Q n78 PC2 Ant 5 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		22.38			
100	PI2 BPSK	1	137		22.50			23.5 0.0
100	PI2 BPSK	1	271		22.37			
100	PI2 BPSK	135	0		22.34			23.5 0.0
100	PI2 BPSK	135	69		22.43			23.5 0.0
100	PI2 BPSK	135	138		22.37			23.5 0.0
100	PI2 BPSK	270	0		22.43			
100	QPSK	1	1		22.59			
100	QPSK	1	137		22.46			23.5 0.0
100	QPSK	1	271		22.53			
100	QPSK	135	0		22.44			23.5 0.0
100	QPSK	135	69		22.53			23.5 0.0
100	QPSK	135	138		22.36			23.5 0.0
100	QPSK	270	0		22.51			
100	16QAM	1	1		22.51			23.5 0.0
100	16QAM	1	1		22.30			23.5 0.0
100	256QAM	1	1		21.33			22.5 1.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1		22.36	22.44	22.39	23.5 0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1		22.37	22.50	22.33	23.5 0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1		22.45	22.54	22.39	23.5 0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1		22.43	22.45	22.32	23.5 0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1		22.49	22.49	22.40	23.5 0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1		22.42	22.51	22.43	23.5 0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1		22.39	22.51	22.33	23.5 0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1		22.43	22.45	22.33	23.5 0.0



n41 Ant 7 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.50	20.54	20.41	22.0	0.0	
100	PI/2 BPSK	1	137	20.31	20.46	20.41			
100	PI/2 BPSK	1	271	20.31	20.41	20.37			
100	PI/2 BPSK	135	0	19.67	19.98	19.90	21.5	0.5	
100	PI/2 BPSK	135	69	20.38	20.43	20.34	22.0	0.0	
100	PI/2 BPSK	135	138	19.96	20.00	19.85			
100	PI/2 BPSK	270	0	19.97	20.05	19.92	21.5	0.5	
100	QPSK	1	1	20.51	20.59	20.45			
100	QPSK	1	137	20.43	20.53	20.40	22.0	0.0	
100	QPSK	1	271	20.43	20.50	20.42			
100	QPSK	135	0	19.35	19.47	19.41	21.0	1.0	
100	QPSK	135	69	20.34	20.49	20.38	22.0	0.0	
100	QPSK	135	138	19.42	19.47	19.31			
100	QPSK	270	0	19.44	19.52	19.41	21.0	1.0	
100	16QAM	1	1	19.57	19.61	19.54	21.0	1.0	
100	64QAM	1	1	18.04	18.13	17.99	19.5	2.5	
100	256QAM	1	1	16.27	16.36	16.21	17.5	4.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.35	20.52	20.32	22.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.44	20.50	20.33	22.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2645			
70	QPSK	1	1	20.44	20.47	20.39	22.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.37	20.52	20.39	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.41	20.45	20.38	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.39	20.47	20.33	22.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.40	20.48	20.35	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.38	20.52	20.37	22.0	0.0	

n41 PC2 Ant 7 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.45	23.59	23.51			
100	PI/2 BPSK	1	137	23.40	23.51	23.37	25.0	0.0	
100	PI/2 BPSK	1	271	23.26	23.34	23.28			
100	PI/2 BPSK	135	0	23.24	23.30	23.15	24.5	0.5	
100	PI/2 BPSK	135	69	23.45	23.51	23.43	25.0	0.0	
100	PI/2 BPSK	135	138	23.19	23.30	23.23			
100	PI/2 BPSK	270	0	23.32	23.38	23.20	24.5	0.5	
100	QPSK	1	1	23.55	23.63	23.58			
100	QPSK	1	137	23.46	23.55	23.50	25.0	0.0	
100	QPSK	1	271	23.36	23.42	23.36			
100	QPSK	135	0	23.19	23.31	23.19	24.0	1.0	
100	QPSK	135	69	23.49	23.55	23.48	25.0	0.0	
100	QPSK	135	138	23.29	23.33	23.23			
100	QPSK	270	0	23.34	23.40	23.31	24.0	1.0	
100	16QAM	1	1	21.51	21.62	21.46	24.0	1.0	
100	64QAM	1	1	21.55	21.65	21.49	22.5	2.5	
100	256QAM	1	1	19.44	19.59	19.50	20.5	4.5	
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.47	23.51	23.44	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.45	23.47	23.42	25.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2645			
70	QPSK	1	1	23.50	23.49	23.44	25.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.45	23.47	23.48	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.46	23.50	23.51	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.45	23.49	23.52	25.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.46	23.50	23.49	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.39	23.59	23.48	25.0	0.0	



Part270 n77 Ant 8 DSI6

BW (MHz)	Modulation	RB 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	19.18	19.18	19.37		
100	PI2 BPSK	1	137	19.30	19.35	19.31	20.5	0.0
100	PI2 BPSK	1	271	19.35	19.29	19.23		
100	PI2 BPSK	135	0	19.18	19.20	19.23	20.5	0.0
100	PI2 BPSK	135	69	19.38	19.23	19.34	20.5	0.0
100	PI2 BPSK	135	138	19.28	19.19	19.23	20.5	0.0
100	PI2 BPSK	270	0	19.31	19.24	19.30		
100	QPSK	1	1	19.35	19.41	19.39		
100	QPSK	1	137	19.27	19.38	19.27	20.5	0.0
100	QPSK	1	271	19.27	19.30	19.39		
100	QPSK	135	0	19.30	19.27	19.35	20.5	0.0
100	QPSK	135	69	19.33	19.39	19.35	20.5	0.0
100	QPSK	135	138	19.26	19.30	19.23	20.5	0.0
100	QPSK	270	0	19.34	19.37	19.28		
100	16QAM	1	1	19.29	19.32	19.20	20.5	0.0
100	16QAM	1	1	18.87	18.88	18.90	20.0	0.5
100	256QAM	1	1	17.32	17.45	17.41	18.0	2.5
Channel								
Frequency (MHz)								
				64998	65000	65002		
90	QPSK	1	1	19.24	19.36	19.27	20.5	0.0
Channel								
Frequency (MHz)								
				649334	656000	662668		
80	QPSK	1	1	19.21	19.35	19.24	20.5	0.0
Channel								
Frequency (MHz)								
				649000	656000	663000		
70	QPSK	1	1	19.23	19.37	19.33	20.5	0.0
Channel								
Frequency (MHz)								
				648668	656000	663334		
60	QPSK	1	1	19.25	19.29	19.33	20.5	0.0
Channel								
Frequency (MHz)								
				648334	656000	663668		
50	QPSK	1	1	19.29	19.33	19.29	20.5	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	19.21	19.30	19.33	20.5	0.0
Channel								
Frequency (MHz)								
				647668	656000	664334		
30	QPSK	1	1	19.25	19.27	19.29	20.5	0.0
Channel								
Frequency (MHz)								
				647334	656000	664668		
20	QPSK	1	1	19.20	19.26	19.24	20.5	0.0

Part270 n77 PC2 Ant 8 DSI6

BW (MHz)	Modulation	RB 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	22.12	22.18	22.35		
100	PI2 BPSK	1	137	22.30	22.32	22.29	23.5	0.0
100	PI2 BPSK	1	271	22.28	22.31	22.23		
100	PI2 BPSK	135	0	22.24	22.21	22.21	23.5	0.0
100	PI2 BPSK	135	69	22.28	22.28	22.28	23.5	0.0
100	PI2 BPSK	135	138	22.28	22.25	22.21	23.5	0.0
100	PI2 BPSK	270	0	22.28	22.22	22.25		
100	QPSK	1	1	22.32	22.37	22.35		
100	QPSK	1	137	22.24	22.34	22.33	23.5	0.0
100	QPSK	1	271	22.32	22.34	22.30		
100	QPSK	135	0	22.29	22.27	22.30	23.5	0.0
100	QPSK	135	69	22.33	22.35	22.27	23.5	0.0
100	QPSK	135	138	22.21	22.26	22.20	23.5	0.0
100	QPSK	270	0	22.27	22.32	22.28		
100	16QAM	1	1	22.28	22.27	22.16	23.5	0.0
100	16QAM	1	1	21.90	21.83	21.91	23.0	0.5
100	256QAM	1	1	20.27	20.41	20.41	21.0	2.5
Channel								
Frequency (MHz)								
				648668	660000	668334		
90	QPSK	1	1	22.17	22.26	22.24	23.5	0.0
Channel								
Frequency (MHz)								
				649000	660000	668000		
80	QPSK	1	1	22.24	22.32	22.24	23.5	0.0
Channel								
Frequency (MHz)								
				649334	660000	668334		
70	QPSK	1	1	22.20	22.28	22.24	23.5	0.0
Channel								
Frequency (MHz)								
				648668	660000	668334		
60	QPSK	1	1	22.26	22.27	22.20	23.5	0.0
Channel								
Frequency (MHz)								
				648334	660000	668668		
50	QPSK	1	1	22.19	22.32	22.26	23.5	0.0
Channel								
Frequency (MHz)								
				3720	3840	3960		
40	QPSK	1	1	22.26	22.31	22.20	23.5	0.0
Channel								
Frequency (MHz)								
				647668	660000	668334		
30	QPSK	1	1	22.27	22.23	22.22	23.5	0.0
Channel								
Frequency (MHz)								
				647334	660000	668668		
20	QPSK	1	1	22.23	22.28	22.27	23.5	0.0

Part27Q n77 Ant 8 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3499.98				
100	PI2 BPSK	1	1		18.81			
100	PI2 BPSK	1	137		19.01		20.5	0.0
100	PI2 BPSK	1	271		18.91			
100	PI2 BPSK	135	0		18.82		20.5	0.0
100	PI2 BPSK	135	69		18.80		20.5	0.0
100	PI2 BPSK	135	138		18.83		20.5	0.0
100	PI2 BPSK	270	0		18.86			
100	QPSK	1	1		19.07			
100	QPSK	1	137		19.04		20.5	0.0
100	QPSK	1	271		18.92			
100	QPSK	135	0		18.91		20.5	0.0
100	QPSK	135	69		19.03		20.5	0.0
100	QPSK	135	138		18.86		20.5	0.0
100	QPSK	270	0		18.95			
100	16QAM	1	1		18.86		20.5	0.0
100	16QAM	1	1		18.54		20.0	0.5
100	256QAM	1	1		17.08		18.0	2.5
Channel								
Frequency (MHz)								
				633000	633332	633668		
90	QPSK	1	1	18.91	18.87	18.84	20.5	0.0
Channel								
Frequency (MHz)								
				632668	633332	634000		
80	QPSK	1	1	18.92	18.87	18.89	20.5	0.0
Channel								
Frequency (MHz)								
				632334	633332	634332		
70	QPSK	1	1	18.92	18.85	18.90	20.5	0.0
Channel								
Frequency (MHz)								
				632000	633332	634668		
60	QPSK	1	1	18.83	18.85	18.80	20.5	0.0
Channel								
Frequency (MHz)								
				631668	633332	635000		
50	QPSK	1	1	18.86	18.80	18.80	20.5	0.0
Channel								
Frequency (MHz)								
				3470.01	3499.98	3504.99		
40	QPSK	1	1	18.89	18.82	18.90	20.5	0.0
Channel								
Frequency (MHz)								
				631000	633332	635668		
30	QPSK	1	1	18.91	18.79	18.82	20.5	0.0
Channel								
Frequency (MHz)								
				630668	633332	636000		
20	QPSK	1	1	18.86	18.80	18.88	20.5	0.0



Part27Q n77 PC2 Ant 8 DS16										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				3499.98						
Frequency (MHz)				3499.98						
100	PI2 BPSK	1	1	21.79	21.79					
100	PI2 BPSK	1	137	21.89	21.89			0.0		
100	PI2 BPSK	1	271	21.96	21.96					
100	PI2 BPSK	135	6	21.86	21.86		23.5	0.0		
100	PI2 BPSK	135	69	21.92	21.92		23.5	0.0		
100	PI2 BPSK	135	138	21.90	21.90		23.5	0.0		
100	PI2 BPSK	270	0	21.82	21.82					
100	QPSK	1	1	21.98	21.98					
100	QPSK	1	137	21.92	21.92		23.5	0.0		
100	QPSK	1	271	21.82	21.82					
100	QPSK	135	0	21.89	21.89		23.5	0.0		
100	QPSK	135	69	21.95	21.95		23.5	0.0		
100	QPSK	135	138	21.83	21.83		23.5	0.0		
100	QPSK	270	0	21.88	21.88					
100	16QAM	1	1	21.90	21.90		23.5	0.0		
100	16QAM	1	1	21.40	21.40		23.0	0.5		
100	256QAM	1	1	20.00	20.00		21.0	2.5		
Channel				6330.00			6330.00			
Frequency (MHz)				6330.00						
90	QPSK	1	1	21.92	21.93	21.86	23.5	0.0		
Channel				632668			633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3450.02			3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	21.89	21.89	21.90	23.5	0.0		
Channel				632334			633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01			3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	21.88	21.85	21.93	23.5	0.0		
Channel				632000			633332	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480			3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	21.94	21.82	21.92	23.5	0.0		
Channel				631668			633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02			3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	21.77	21.74	21.77	23.5	0.0		
Channel				631334			633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01			3499.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	21.76	21.72	21.80	23.5	0.0		
Channel				631000			633332	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465			3499.98	3534.69	(dBm)	(dB)
30	QPSK	1	1	21.80	21.74	21.82	23.5	0.0		
Channel				630668			633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02			3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	21.85	21.76	21.78	23.5	0.0		

Part27O n78 Ant 8 DS16										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				6500.00						
Frequency (MHz)				3750			3750	3750		
100	PI2 BPSK	1	1	19.29	19.29					
100	PI2 BPSK	1	137	19.47	19.47		20.5	0.0		
100	PI2 BPSK	1	271	19.45	19.45					
100	PI2 BPSK	135	0	19.29	19.29		20.5	0.0		
100	PI2 BPSK	135	69	19.42	19.42		20.5	0.0		
100	PI2 BPSK	135	138	19.28	19.28		20.5	0.0		
100	PI2 BPSK	270	0	19.38	19.38					
100	QPSK	1	1	19.81	19.81					
100	QPSK	1	137	19.55	19.55		20.5	0.0		
100	QPSK	1	271	19.50	19.50					
100	QPSK	135	0	19.38	19.38		20.5	0.0		
100	QPSK	135	69	19.55	19.55		20.5	0.0		
100	QPSK	135	138	19.45	19.45		20.5	0.0		
100	QPSK	270	0	19.53	19.53					
100	16QAM	1	1	19.50	19.50		20.5	0.0		
100	16QAM	1	1	19.03	19.03		20.0	0.5		
100	256QAM	1	1	17.59	17.59		18.0	2.5		
Channel				648668			650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02			3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	19.47	19.45	19.47	20.5	0.0		
Channel				649334			650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01			3750	3750.02	(dBm)	(dB)
80	QPSK	1	1	19.57	19.40	19.40	20.5	0.0		
Channel				649000			650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735			3750	3765	(dBm)	(dB)
70	QPSK	1	1	19.51	19.57	19.49	20.5	0.0		
Channel				648668			650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02			3750	3750.01	(dBm)	(dB)
60	QPSK	1	1	19.56	19.48	19.49	20.5	0.0		
Channel				648334			650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01			3750	3755.02	(dBm)	(dB)
50	QPSK	1	1	19.47	19.48	19.53	20.5	0.0		
Channel				648000			650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720			3750	3780	(dBm)	(dB)
40	QPSK	1	1	19.54	19.47	19.50	20.5	0.0		
Channel				647668			650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02			3750	3755.01	(dBm)	(dB)
30	QPSK	1	1	19.53	19.51	19.49	20.5	0.0		
Channel				647334			650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01			3750	3750.02	(dBm)	(dB)
20	QPSK	1	1	19.48	19.50	19.57	20.5	0.0		

Part27O n78 PC2 Ant 8 DS16										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				3750			3750	3750		
Frequency (MHz)				3750						
100	PI2 BPSK	1	1	22.37	22.37					
100	PI2 BPSK	1	137	22.44	22.44		23.5	0.0		
100	PI2 BPSK	1	271	22.41	22.41					
100	PI2 BPSK	135	0	22.36	22.36		23.5	0.0		
100	PI2 BPSK	135	69	22.40	22.40		23.5	0.0		
100	PI2 BPSK	135	138	22.37	22.37		23.5	0.0		
100	PI2 BPSK	270	0	22.36	22.36					
100	QPSK	1	1	22.55	22.55					
100	QPSK	1	137	22.52	22.52		23.5	0.0		
100	QPSK	1	271	22.34	22.34					
100	QPSK	135	0	22.41	22.41		23.5	0.0		
100	QPSK	135	69	22.51	22.51		23.5	0.0		
100	QPSK	135	138	22.40	22.40		23.5	0.0		
100	QPSK	270	0	22.45	22.45					
100	16QAM	1	1	22.38	22.38		23.5	0.0		
100	16QAM	1	1	21.93	21.93		23.0	0.5		
100	256QAM	1	1	20.51	20.51		21.0	2.5		
Channel				648668			650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02			3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	22.42	22.50	22.46	23.5	0.0		
Channel				649334			650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01			3750	3750.02	(dBm)	(dB)
80	QPSK	1	1	22.29	22.44	22.43	23.5	0.0		
Channel				649000			650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735			3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.42	22.40	22.35	23.5	0.0		
Channel				648668			650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02			3750	3750.01	(dBm)	(dB)
60	QPSK	1	1	22.34	22.43	22.44	23.5	0.0		
Channel				648334			650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01			3750	3755.02	(dBm)	(dB)
50	QPSK	1	1	22.35	22.48	22.37	23.5	0.0		
Channel				648000			650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720			3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.40	22.45	22.46	23.5	0.0		
Channel				647668			650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02			3750	3755.01	(dBm)	(dB)
30	QPSK	1	1	22.42	22.45	22.40	23.5	0.0		
Channel				647334			650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01			3750	3750.02	(dBm)	(dB)
20	QPSK	1	1	22.34	22.50	22.41	23.5	0.0		



Part27Q n78 Ant 8 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		19.11				
100	PI2 BPSK	1	137		19.19		20.5	0.0	
100	PI2 BPSK	1	271		19.22				
100	PI2 BPSK	135	0		19.11		20.5	0.0	
100	PI2 BPSK	135	69		19.16		20.5	0.0	
100	PI2 BPSK	135	138		19.14		20.5	0.0	
100	PI2 BPSK	270	0		19.19				
100	QPSK	1	1		19.33		20.5	0.0	
100	QPSK	1	137		19.31				
100	QPSK	1	271		19.17				
100	QPSK	135	0		19.18		20.5	0.0	
100	QPSK	135	69		19.30		20.5	0.0	
100	QPSK	135	138		19.16		20.5	0.0	
100	QPSK	270	0		19.22				
100	16QAM	1	1		19.24		20.5	0.0	
100	64QAM	1	1		19.78		20.0	0.5	
100	256QAM	1	1		17.95		18.0	2.5	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	19.12	19.24	19.12	20.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3493.02	3500.01	3510			
80	QPSK	1	1	19.15	19.23	19.17	20.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1	19.11	19.21	19.18	20.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.09	19.22	19.10	20.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.16	19.24	19.18	20.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	19.13	19.28	19.14	20.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3462	3500.01	3535.02			
30	QPSK	1	1	19.18	19.21	19.09	20.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.13	19.17	19.15	20.5	0.0	

Part27Q n78 PC2 Ant 8 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		22.04				
100	PI2 BPSK	1	137		22.24		23.5	0.0	
100	PI2 BPSK	1	271		22.26				
100	PI2 BPSK	135	0		22.11		23.5	0.0	
100	PI2 BPSK	135	69		22.16		23.5	0.0	
100	PI2 BPSK	135	138		22.11		23.5	0.0	
100	PI2 BPSK	270	0		22.15				
100	QPSK	1	1		22.30		23.5	0.0	
100	QPSK	1	137		22.29				
100	QPSK	1	271		22.17				
100	QPSK	135	0		22.19		23.5	0.0	
100	QPSK	135	69		22.24		23.5	0.0	
100	QPSK	135	138		22.12		23.5	0.0	
100	QPSK	270	0		22.19				
100	16QAM	1	1		22.22		23.5	0.0	
100	64QAM	1	1		21.71		23.5	0.0	
100	256QAM	1	1		20.34		22.0	1.5	
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.02	22.19	22.18	23.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	21.99	22.25	22.17	23.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1	21.98	22.24	22.22	23.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.06	22.23	22.18	23.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.05	22.25	22.21	23.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.01	22.15	22.11	23.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3462	3500.01	3535.02			
30	QPSK	1	1	21.99	22.25	22.14	23.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.02	22.19	22.13	23.5	0.0	



Reduced Power Mode for Main PA DS16 ENDC

n2 Ant 0 DS16 sig path: 164										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				372000	376000	380000				
Frequency (MHz)				1850	1880	1900				
20	PI2 BPSK	1	1	21.16	21.18	21.15	22.0	0.0		
20	PI2 BPSK	1	53	21.02	21.18	21.00	22.0	0.0		
20	PI2 BPSK	1	104	21.01	21.13	21.04	22.0	0.0		
20	PI2 BPSK	50	0	21.15	21.21	21.19	22.0	0.0		
20	PI2 BPSK	50	28	21.10	21.18	21.07	22.0	0.0		
20	PI2 BPSK	50	56	21.04	21.24	21.13	22.0	0.0		
20	PI2 BPSK	100	0	21.17	21.28	21.12	22.0	0.0		
20	QPSK	1	1	21.11	21.29	21.18	22.0	0.0		
20	QPSK	1	53	20.98	21.18	21.16	22.0	0.0		
20	QPSK	1	104	21.02	21.21	21.04	22.0	0.0		
20	QPSK	50	0	21.21	21.19	21.26	22.0	0.0		
20	QPSK	50	28	20.90	21.22	21.00	22.0	0.0		
20	QPSK	50	56	21.11	21.14	21.07	22.0	0.0		
20	QPSK	100	0	21.08	21.17	21.13	22.0	0.0		
20	16QAM	1	1	21.17	21.18	21.12	22.0	0.0		
20	16QAM	1	1	20.55	20.69	20.50	21.5	0.5		
20	256QAM	1	1	18.75	18.83	18.63	19.5	2.5		
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	1	20.85	21.24	21.18	22.0	0.0		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	1	20.97	21.14	21.07	22.0	0.0		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	1	21.09	21.23	21.04	22.0	0.0		

n2 Ant 0 DS16 sig path: 429										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				372000	376000	380000				
Frequency (MHz)				1860	1880	1900				
20	PI2 BPSK	1	1	21.13	21.17	21.18	22.0	0.0		
20	PI2 BPSK	1	53	20.97	21.24	20.98	22.0	0.0		
20	PI2 BPSK	1	104	21.03	21.11	21.05	22.0	0.0		
20	PI2 BPSK	50	0	21.14	21.20	21.17	22.0	0.0		
20	PI2 BPSK	50	28	21.09	21.14	21.11	22.0	0.0		
20	PI2 BPSK	50	56	20.98	21.21	21.09	22.0	0.0		
20	PI2 BPSK	100	0	21.22	21.23	21.11	22.0	0.0		
20	QPSK	1	1	21.14	21.27	21.14	22.0	0.0		
20	QPSK	1	53	20.98	21.12	21.14	22.0	0.0		
20	QPSK	1	104	20.98	21.22	21.03	22.0	0.0		
20	QPSK	50	0	21.21	21.16	21.16	22.0	0.0		
20	QPSK	50	28	20.96	21.25	20.97	22.0	0.0		
20	QPSK	50	56	21.14	21.12	21.12	22.0	0.0		
20	QPSK	100	0	21.10	21.16	21.11	22.0	0.0		
20	16QAM	1	1	21.17	21.21	21.11	22.0	0.0		
20	16QAM	1	1	20.60	20.84	20.58	21.5	0.5		
20	256QAM	1	1	18.72	18.83	18.85	19.5	2.5		
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	1	21.02	21.17	21.03	22.0	0.0		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	1	21.08	21.16	20.99	22.0	0.0		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	1	21.13	21.09	21.03	22.0	0.0		

n5 Ant 0 DS16 sig path: 168										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				166800	167300	167800				
Frequency (MHz)				834	836.5	835				
20	PI2 BPSK	1	1	23.12	23.13	23.09	24.0	0.0		
20	PI2 BPSK	1	53	23.07	23.11	23.01	24.0	0.0		
20	PI2 BPSK	1	104	23.05	23.05	22.85	24.0	0.0		
20	PI2 BPSK	50	0	22.80	22.61	22.50	23.5	0.5		
20	PI2 BPSK	50	28	22.91	22.97	22.80	24.0	0.0		
20	PI2 BPSK	50	56	22.44	22.63	22.65	23.5	0.5		
20	PI2 BPSK	100	0	22.42	22.58	22.37	23.5	0.5		
20	QPSK	1	1	23.20	23.22	23.14	24.0	0.0		
20	QPSK	1	53	23.07	23.11	23.11	24.0	0.0		
20	QPSK	1	104	23.00	23.08	22.98	24.0	0.0		
20	QPSK	50	0	21.95	21.98	21.84	23.0	1.0		
20	QPSK	50	28	22.85	22.93	22.92	24.0	0.0		
20	QPSK	50	56	21.98	22.02	22.00	23.0	1.0		
20	QPSK	100	0	22.03	22.08	22.01	23.0	1.0		
20	16QAM	1	1	22.01	22.02	22.00	23.0	1.0		
20	16QAM	1	1	20.50	20.55	20.41	21.5	2.5		
20	256QAM	1	1	18.34	18.56	18.51	19.5	4.5		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				831.5	836.5	841.5				
15	QPSK	1	1	23.00	23.12	23.08	24.0	0.0		
Channel				165800	167300	168300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				829	836.5	844				
10	QPSK	1	1	23.12	23.17	23.09	24.0	0.0		
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	1	23.00	23.05	23.03	24.0	0.0		



n5 Ant 0 DS16 sig path: 414

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.82	22.91	22.89	24.0	0.0
20	PI2 BPSK	1	53	22.86	22.79	22.71		
20	PI2 BPSK	1	104	22.87	22.82	22.79		
20	PI2 BPSK	50	0	22.40	22.42	22.32	23.5	0.5
20	PI2 BPSK	50	28	22.89	22.85	22.72	24.0	0.0
20	PI2 BPSK	50	56	22.17	22.27	22.17		
20	PI2 BPSK	100	0	22.15	22.32	22.20	23.5	0.5
20	QPSK	1	1	22.87	22.82	22.77		
20	QPSK	1	53	22.70	22.86	22.80	24.0	0.0
20	QPSK	1	104	22.82	22.84	22.81		
20	QPSK	50	0	21.81	21.85	21.74	23.0	1.0
20	QPSK	50	28	22.86	22.81	22.76	24.0	0.0
20	QPSK	50	56	21.62	21.77	21.64	23.0	1.0
20	QPSK	100	0	21.73	21.81	21.69		
20	16QAM	1	1	22.14	22.22	22.21	23.0	1.0
20	16QAM	1	1	20.01	20.00	19.94	21.5	2.5
20	256QAM	1	1	18.52	18.55	18.38	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.85	22.75	22.68	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.75	22.75	22.69	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				829.5	836.5	846.5		
5	QPSK	1	1	22.76	22.84	22.61	24.0	0.0

n12 Ant 0 DS16 sig path: 172

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.97	23.06	22.95		
15	PI2 BPSK	1	40	22.85	22.99	22.87	24.0	0.0
15	PI2 BPSK	1	77	22.88	23.02	22.91		
15	PI2 BPSK	36	0	22.53	22.63	22.57	23.5	0.5
15	PI2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI2 BPSK	36	43	22.46	22.56	22.48		
15	PI2 BPSK	75	0	22.46	22.57	22.51	23.5	0.5
15	QPSK	1	1	22.99	23.13	23.03		
15	QPSK	1	40	23.03	23.09	22.98	24.0	0.0
15	QPSK	1	77	22.93	23.05	22.93		
15	QPSK	36	0	21.97	22.03	21.96	23.0	1.0
15	QPSK	36	22	22.97	23.04	22.93	24.0	0.0
15	QPSK	36	43	21.88	21.93	21.87	23.0	1.0
15	QPSK	75	0	21.91	21.98	21.86		
15	16QAM	1	1	21.89	22.02	21.95	23.0	1.0
15	16QAM	1	1	20.54	20.65	20.51	21.5	2.5
15	256QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.89	23.02	22.96	24.0	0.0

n12 Ant 0 DS16 sig path: 417

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.85	22.82		
15	PI2 BPSK	1	40	22.86	22.78	22.86	24.0	0.0
15	PI2 BPSK	1	77	22.70	22.80	22.63		
15	PI2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI2 BPSK	36	22	22.76	22.79	22.74	24.0	0.0
15	PI2 BPSK	36	43	22.26	22.37	22.29		
15	PI2 BPSK	75	0	22.31	22.46	22.32	23.5	0.5
15	QPSK	1	1	22.82	22.93	22.88		
15	QPSK	1	40	22.82	22.78	22.73	24.0	0.0
15	QPSK	1	77	22.74	22.82	22.64		
15	QPSK	36	0	21.86	21.94	21.88	23.0	1.0
15	QPSK	36	22	22.80	22.85	22.88	24.0	0.0
15	QPSK	36	43	21.76	21.88	21.81	23.0	1.0
15	QPSK	75	0	21.80	21.96	21.86		
15	16QAM	1	1	22.20	22.24	22.13	23.0	1.0
15	16QAM	1	1	20.08	20.11	20.06	21.5	2.5
15	256QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.90	22.76	22.79	24.0	0.0



n25 Ant 0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1970	1992.5	1995			
40	PI/2 BPSK	1	1	21.24	21.26	21.21			
40	PI/2 BPSK	1	108	21.08	21.26	21.07	22.0	0.0	
40	PI/2 BPSK	1	214	21.10	21.20	21.18			
40	PI/2 BPSK	108	0	21.19	21.25	21.31	22.0	0.0	
40	PI/2 BPSK	108	54	21.25	21.30	21.21	22.0	0.0	
40	PI/2 BPSK	108	108	21.15	21.32	21.23			
40	PI/2 BPSK	216	0	21.27	21.30	21.18	22.0	0.0	
40	QPSK	1	1	21.22	21.37	21.30			
40	QPSK	1	108	21.13	21.32	21.25	22.0	0.0	
40	QPSK	1	214	21.12	21.28	21.11			
40	QPSK	108	0	21.32	21.26	21.30	22.0	0.0	
40	QPSK	108	54	20.99	21.35	21.05	22.0	0.0	
40	QPSK	108	108	21.12	21.20	21.14	22.0	0.0	
40	QPSK	216	0	21.16	21.26	21.24			
40	16QAM	1	1	21.28	21.29	21.20	22.0	0.0	
40	64QAM	1	1	20.70	20.82	20.73	21.5	0.5	
40	256QAM	1	1	19.05	19.12	19.03	19.5	2.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	21.13	21.32	21.18	22.0	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	21.15	21.24	21.20	22.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	21.08	21.23	21.18	22.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	21.16	21.33	21.17	22.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	21.07	21.26	21.22	22.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	21.10	21.30	21.14	22.0	0.0	

n66 Ant 0 DS16 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1740	1745	1749			
40	PI/2 BPSK	1	1	20.81	20.78	20.74			
40	PI/2 BPSK	1	108	20.85	20.78	20.56	22.0	0.0	
40	PI/2 BPSK	1	214	20.57	20.70	20.60			
40	PI/2 BPSK	108	0	20.72	20.80	20.75	22.0	0.0	
40	PI/2 BPSK	108	54	20.72	20.75	20.61	22.0	0.0	
40	PI/2 BPSK	108	108	20.83	20.84	20.70			
40	PI/2 BPSK	216	0	20.74	20.82	20.77	22.0	0.0	
40	QPSK	1	1	20.70	20.95	20.78			
40	QPSK	1	108	20.83	20.75	20.73	22.0	0.0	
40	QPSK	1	214	20.64	20.75	20.60			
40	QPSK	108	0	20.81	20.79	20.79	22.0	0.0	
40	QPSK	108	54	20.48	20.82	20.65	22.0	0.0	
40	QPSK	108	108	20.74	20.71	20.63	22.0	0.0	
40	QPSK	216	0	20.83	20.75	20.71			
40	16QAM	1	1	20.81	20.74	20.67	22.0	0.0	
40	64QAM	1	1	19.88	20.07	19.92	21.5	0.5	
40	256QAM	1	1	18.43	18.48	18.38	19.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.57	20.91	20.74	22.0	0.0	
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.55	20.83	20.72	22.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.60	20.97	20.66	22.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.58	20.90	20.70	22.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.54	20.83	20.70	22.0	0.0	



n66 Ant 0 DSI6 sig path: 432

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	PI/2 BPSK	1	1	20.75	20.70	20.68		
40	PI/2 BPSK	1	108	20.59	20.74	20.46	22.0	0.0
40	PI/2 BPSK	1	214	20.48	20.84	20.50		
40	PI/2 BPSK	108	0	20.83	20.87	20.89	22.0	0.0
40	PI/2 BPSK	108	54	20.67	20.61	20.53	22.0	0.0
40	PI/2 BPSK	108	108	20.49	20.72	20.57		
40	PI/2 BPSK	216	0	20.70	20.74	20.82	22.0	0.0
40	QPSK	1	1	20.85	20.84	20.68		
40	QPSK	1	108	20.54	20.70	20.87	22.0	0.0
40	QPSK	1	214	20.54	20.62	20.49		
40	QPSK	108	0	20.88	20.72	20.71	22.0	0.0
40	QPSK	108	54	20.41	20.74	20.51	22.0	0.0
40	QPSK	108	108	20.58	20.80	20.57	22.0	0.0
40	QPSK	216	0	20.55	20.65	20.60		
40	16QAM	1	1	20.66	20.59	20.52	22.0	0.0
40	64QAM	1	1	20.02	20.04	19.95	21.5	0.5
40	256QAM	1	1	18.26	18.41	18.33	19.5	2.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.61	20.75	20.62	22.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.49	20.80	20.61	22.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.53	20.73	20.60	22.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.52	20.73	20.55	22.0	0.0
Channel				342500	349000	355000		
Frequency (MHz)				1712.5	1745	1772.5		
5	QPSK	1	1	20.49	20.70	20.61	22.0	0.0

n71 Ant 0 DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	683		
20	PI/2 BPSK	1	1	23.07	23.21	23.12		
20	PI/2 BPSK	1	53	23.03	23.15	23.01	24.0	0.0
20	PI/2 BPSK	1	104	23.02	23.10	22.95		
20	PI/2 BPSK	50	0	22.67	22.73	22.84	23.5	0.5
20	PI/2 BPSK	50	28	23.01	23.11	23.04	24.0	0.0
20	PI/2 BPSK	50	56	22.52	22.62	22.57		
20	PI/2 BPSK	100	0	22.70	22.77	22.82	23.5	0.5
20	QPSK	1	1	23.13	23.24	23.18		
20	QPSK	1	53	23.10	23.21	23.15	24.0	0.0
20	QPSK	1	104	23.00	23.13	23.06		
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0
20	QPSK	50	28	23.06	23.18	23.08	24.0	0.0
20	QPSK	50	56	21.97	22.11	21.97		
20	QPSK	100	0	22.10	22.23	22.17	23.0	1.0
20	16QAM	1	1	22.37	22.47	22.39	23.0	1.0
20	64QAM	1	1	20.44	20.60	20.54	21.5	2.5
20	256QAM	1	1	18.87	18.99	18.94	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.98	23.10	23.04	24.0	0.0
Channel				133500	136100	138600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.99	23.11	23.05	24.0	0.0



n7 Ant 1 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50000	50700	51000			
Frequency (MHz)				2530	2535	2550			
40	PI/2 BPSK	1	1	18.81	18.92	18.89			
40	PI/2 BPSK	1	108	18.76	18.83	18.84	19.5	0.0	
40	PI/2 BPSK	1	214	18.73	18.87	18.89			
40	PI/2 BPSK	108	0	18.81	18.97	18.84	19.5	0.0	
40	PI/2 BPSK	108	54	18.71	18.81	18.68	19.5	0.0	
40	PI/2 BPSK	108	108	18.92	18.98	18.91	19.5	0.0	
40	PI/2 BPSK	216	0	18.95	18.90	18.91			
40	QPSK	1	1	18.84	18.88	18.92			
40	QPSK	1	108	18.65	18.80	18.73	19.5	0.0	
40	QPSK	1	214	18.79	18.84	18.73			
40	QPSK	108	0	18.80	18.91	18.75	19.5	0.0	
40	QPSK	108	54	18.76	18.83	18.87	19.5	0.0	
40	QPSK	108	108	18.80	18.82	18.78	19.5	0.0	
40	QPSK	216	0	18.83	18.89	18.82			
40	16QAM	1	1	18.92	18.97	18.88	19.5	0.0	
40	16QAM	1	1	18.39	18.52	18.41	19.5	0.0	
40	256QAM	1	1	18.81	18.84	18.83	19.5	0.0	
Channel				50300	50700	51000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.78	18.86	18.81	19.5	0.0	
Channel				50200	50700	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2527.5			
25	QPSK	1	1	18.80	18.82	18.78	19.5	0.0	
Channel				50200	50700	51000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	18.71	18.83	18.82	19.5	0.0	
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2542.5			
15	QPSK	1	1	18.77	18.88	18.86	19.5	0.0	
Channel				50100	50700	51800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.70	18.90	18.78	19.5	0.0	
Channel				50050	50700	51350	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2587.5			
5	QPSK	1	1	18.68	18.82	18.79	19.5	0.0	

n30 Ant 1 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				40000	40000	40000			
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		19.37				
10	PI/2 BPSK	1	26		19.48		20.0	0.0	
10	PI/2 BPSK	1	50		19.35		20.0	0.0	
10	PI/2 BPSK	25	0		19.38		20.0	0.0	
10	PI/2 BPSK	25	14		19.42		20.0	0.0	
10	PI/2 BPSK	25	27		19.41		20.0	0.0	
10	PI/2 BPSK	50	0		19.38				
10	QPSK	1	1		19.51		20.0	0.0	
10	QPSK	1	26		19.46				
10	QPSK	1	50		19.44				
10	QPSK	25	0		19.41		20.0	0.0	
10	QPSK	25	14		19.43		20.0	0.0	
10	QPSK	25	27		19.30		20.0	0.0	
10	QPSK	50	0		19.33				
10	16QAM	1	1		19.37		20.0	0.0	
10	16QAM	1	1		19.43		20.0	0.0	
10	256QAM	1	1		18.74		19.5	0.5	
Channel				48150	48200	48250	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	19.35	19.36	19.34	20.0	0.0	



n41 Ant 1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.32	18.44	18.47			
100	PI2 BPSK	1	137	18.36	18.51	18.43	19.5	0.0	
100	PI2 BPSK	1	271	18.33	18.46	18.36			
100	PI2 BPSK	135	0	18.37	18.51	18.40	19.5	0.0	
100	PI2 BPSK	135	69	18.24	18.48	18.43	19.5	0.0	
100	PI2 BPSK	135	138	18.36	18.53	18.38	19.5	0.0	
100	PI2 BPSK	270	0	18.38	18.53	18.35			
100	QPSK	1	1	18.25	18.58	18.44			
100	QPSK	1	137	18.37	18.52	18.43	19.5	0.0	
100	QPSK	1	271	18.24	18.53	18.48			
100	QPSK	135	0	18.30	18.47	18.44	19.5	0.0	
100	QPSK	135	69	18.25	18.52	18.42	19.5	0.0	
100	QPSK	135	138	18.24	18.50	18.39	19.5	0.0	
100	QPSK	270	0	18.32	18.51	18.38			
100	16QAM	1	1	18.37	18.43	18.41	19.5	0.0	
100	16QAM	1	1	18.30	18.57	18.33	19.5	0.0	
100	256QAM	1	1	18.26	18.45	18.48	19.5	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.33	18.46	18.39	19.5	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.23	18.47	18.36	19.5	0.0	
Channel				509202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	18.37	18.50	18.38	19.5	0.0	
Channel				505200	518988	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	18.38	18.49	18.35	19.5	0.0	
Channel				504204	518988	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.25	18.47	18.34	19.5	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.35	18.45	18.34	19.5	0.0	
Channel				502200	518988	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	18.30	18.43	18.38	19.5	0.0	
Channel				501204	518988	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.35	18.57	18.37	19.5	0.0	

n41 PC2 Ant 1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.35	21.67	21.50			
100	PI2 BPSK	1	137	21.42	21.66	21.49	22.5	0.0	
100	PI2 BPSK	1	271	21.43	21.53	21.54			
100	PI2 BPSK	135	0	21.38	21.64	21.55	22.5	0.0	
100	PI2 BPSK	135	69	21.43	21.51	21.52	22.5	0.0	
100	PI2 BPSK	135	138	21.37	21.51	21.51	22.5	0.0	
100	PI2 BPSK	270	0	21.49	21.63	21.57			
100	QPSK	1	1	21.43	21.60	21.52			
100	QPSK	1	137	21.48	21.57	21.57	22.5	0.0	
100	QPSK	1	271	21.35	21.61	21.51			
100	QPSK	135	0	21.39	21.55	21.45	22.5	0.0	
100	QPSK	135	69	21.36	21.62	21.59	22.5	0.0	
100	QPSK	135	138	21.39	21.61	21.54	22.5	0.0	
100	QPSK	270	0	21.41	21.64	21.50			
100	16QAM	1	1	21.34	21.57	21.57	22.5	0.0	
100	16QAM	1	1	21.48	21.63	21.54	22.5	0.0	
100	256QAM	1	1	21.42	21.59	21.61	22.5	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.37	21.62	21.53	22.5	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.41	21.64	21.54	22.5	0.0	
Channel				509202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	21.48	21.62	21.53	22.5	0.0	
Channel				505200	518988	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	21.37	21.65	21.48	22.5	0.0	
Channel				504204	518988	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.41	21.58	21.59	22.5	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.35	21.57	21.60	22.5	0.0	
Channel				502200	518988	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	21.39	21.65	21.48	22.5	0.0	
Channel				501204	518988	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.42	21.56	21.50	22.5	0.0	



n2 Ant 4 DS16 sig path: 164

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.23	18.33	18.30		
20	PI2 BPSK	1	53	18.17	18.24	18.21	19.5	0.0
20	PI2 BPSK	1	104	18.16	18.24	18.07		
20	PI2 BPSK	50	0	18.18	18.39	18.26	19.5	0.0
20	PI2 BPSK	50	28	18.08	18.18	18.08	19.5	0.0
20	PI2 BPSK	50	56	18.37	18.36	18.33	19.5	0.0
20	PI2 BPSK	100	0	18.36	18.32	18.36		
20	QPSK	1	1	18.26	18.41	18.34		
20	QPSK	1	53	18.05	18.22	18.18	19.5	0.0
20	QPSK	1	104	18.14	18.30	18.17		
20	QPSK	50	0	18.24	18.30	18.13	19.5	0.0
20	QPSK	50	28	18.17	18.39	18.09	19.5	0.0
20	QPSK	50	56	18.27	18.21	18.24		
20	QPSK	100	0	18.17	18.28	18.25	19.5	0.0
20	16QAM	1	1	18.31	18.33	18.23	19.5	0.0
20	16QAM	1	1	18.27	18.23	18.21	19.5	0.0
20	256QAM	1	1	17.47	17.52	17.49	18.5	1.0
Channel				371000	376000	380000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.12	18.28	18.20	19.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1870	1905		
10	QPSK	1	1	18.19	18.29	18.29	19.5	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.19	18.32	18.28	19.5	0.0

n2 Ant 4 DS16 sig path: 429

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.07	18.10	18.15		
20	PI2 BPSK	1	53	17.97	18.04	18.04	19.5	0.0
20	PI2 BPSK	1	104	17.94	18.05	17.81		
20	PI2 BPSK	50	0	17.96	18.22	18.09	19.5	0.0
20	PI2 BPSK	50	28	17.92	17.98	17.90	19.5	0.0
20	PI2 BPSK	50	56	18.23	18.17	18.18	19.5	0.0
20	PI2 BPSK	100	0	18.15	18.15	18.20		
20	QPSK	1	1	18.01	18.24	18.19		
20	QPSK	1	53	17.86	17.95	17.98	19.5	0.0
20	QPSK	1	104	17.97	18.16	18.02		
20	QPSK	50	0	18.08	18.14	17.98	19.5	0.0
20	QPSK	50	28	17.92	18.22	17.83	19.5	0.0
20	QPSK	50	56	18.04	18.02	18.07		
20	QPSK	100	0	17.92	18.10	18.07	19.5	0.0
20	16QAM	1	1	18.12	18.09	17.99	19.5	0.0
20	16QAM	1	1	18.03	17.99	18.04	19.5	0.0
20	256QAM	1	1	17.31	17.47	17.33	18.5	1.0
Channel				371000	376000	380000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	17.87	18.02	18.04	19.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	17.91	18.11	17.85	19.5	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	17.94	18.06	18.02	19.5	0.0

n5 Ant 4 DS16 sig path: 168

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.90	23.02	22.92		
20	PI2 BPSK	1	53	22.85	22.96	22.86	24.0	0.0
20	PI2 BPSK	1	104	22.76	22.86	22.73		
20	PI2 BPSK	50	0	22.44	22.52	22.39	23.5	0.5
20	PI2 BPSK	50	28	22.82	22.97	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.45	22.55	22.42	23.5	0.5
20	PI2 BPSK	100	0	22.47	22.57	22.44		
20	QPSK	1	1	23.01	23.06	22.99		
20	QPSK	1	53	22.92	23.03	22.93	24.0	0.0
20	QPSK	1	104	22.75	22.86	22.77		
20	QPSK	50	0	21.91	22.05	21.99	23.0	1.0
20	QPSK	50	28	22.83	22.98	22.87	24.0	0.0
20	QPSK	50	56	21.87	22.01	21.89	23.0	1.0
20	QPSK	100	0	21.92	22.05	21.98		
20	16QAM	1	1	21.09	21.13	21.06	23.0	1.0
20	16QAM	1	1	20.51	20.56	20.51	21.5	2.5
20	256QAM	1	1	18.52	18.83	18.48	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.93	23.00	22.85	24.0	0.0
Channel				166800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.93	22.97	22.91	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.88	22.91	22.82	24.0	0.0



n5 Ant 4 DS16 sig path: 414									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				165800	167300	168800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.98	23.02	22.86			
20	PI2 BPSK	1	53	22.82	22.99	22.94	24.0	0.0	
20	PI2 BPSK	1	104	22.92	23.04	22.87			
20	PI2 BPSK	50	0	22.55	22.81	22.56	23.5	0.5	
20	PI2 BPSK	50	28	22.79	22.91	22.82	24.0	0.0	
20	PI2 BPSK	50	58	22.56	22.56	22.38	23.5	0.5	
20	PI2 BPSK	100	0	22.40	22.50	22.32			
20	QPSK	1	1	23.05	23.08	22.92			
20	QPSK	1	53	22.81	22.95	22.80	24.0	0.0	
20	QPSK	1	104	23.00	23.01	22.88			
20	QPSK	50	0	22.10	22.12	22.04	23.0	1.0	
20	QPSK	50	28	22.78	22.94	22.79	24.0	0.0	
20	QPSK	50	58	22.60	22.77	22.70	23.0	1.0	
20	QPSK	100	0	21.89	22.01	21.89			
20	16QAM	1	1	22.20	22.27	22.08	23.0	1.0	
20	16QAM	1	1	20.32	20.46	20.45	21.5	2.5	
20	256QAM	1	1	18.99	19.04	19.04	19.5	4.5	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.01	22.89	22.80	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	833.5	841			
10	QPSK	1	1	22.89	23.00	22.87	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.01	22.91	22.91	24.0	0.0	

n12 Ant 4 DS16 sig path: 172									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	23.16	23.22	23.11			
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0	
15	PI2 BPSK	1	77	23.01	23.13	22.99			
15	PI2 BPSK	36	0	22.84	22.75	22.86	23.5	0.5	
15	PI2 BPSK	36	22	23.11	23.17	23.07	24.0	0.0	
15	PI2 BPSK	36	43	22.56	22.89	22.61	23.5	0.5	
15	PI2 BPSK	75	0	22.65	22.77	22.67			
15	QPSK	1	1	23.19	23.23	23.15			
15	QPSK	1	40	23.07	23.18	23.09	24.0	0.0	
15	QPSK	1	77	22.98	23.08	23.00			
15	QPSK	36	0	22.23	22.29	22.17	23.0	1.0	
15	QPSK	36	22	23.07	23.15	23.00	24.0	0.0	
15	QPSK	36	43	22.08	22.16	22.09	23.0	1.0	
15	QPSK	75	0	22.15	22.23	22.11			
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0	
15	16QAM	1	1	20.45	20.53	20.39	21.5	2.5	
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5	
Channel				140300	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0	

n12 Ant 4 DS16 sig path: 417									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	22.93	23.02	22.93			
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0	
15	PI2 BPSK	1	77	22.91	22.95	22.89			
15	PI2 BPSK	36	0	22.49	22.83	22.44	23.5	0.5	
15	PI2 BPSK	36	22	22.99	22.95	22.89	24.0	0.0	
15	PI2 BPSK	36	43	22.42	22.55	22.42	23.5	0.5	
15	PI2 BPSK	75	0	22.51	22.58	22.57			
15	QPSK	1	1	23.00	23.06	22.99			
15	QPSK	1	40	22.97	22.98	22.81	24.0	0.0	
15	QPSK	1	77	22.86	23.02	22.88			
15	QPSK	36	0	22.05	22.11	22.05	23.0	1.0	
15	QPSK	36	22	22.75	22.89	22.79	24.0	0.0	
15	QPSK	36	43	22.84	22.75	22.74	23.0	1.0	
15	QPSK	75	0	21.87	22.05	21.92			
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0	
15	16QAM	1	1	20.32	20.48	20.32	21.5	2.5	
15	256QAM	1	1	18.94	19.09	19.07	19.5	4.5	
Channel				140300	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.84	22.98	22.84	24.0	0.0	



n25 Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	18.41	18.37	18.46			
40	PI/2 BPSK	1	108	18.25	18.29	18.31	19.5	0.0	
40	PI/2 BPSK	1	214	18.30	18.38	18.12			
40	PI/2 BPSK	108	0	18.30	18.51	18.35	19.5	0.0	
40	PI/2 BPSK	108	54	18.28	18.33	18.18	19.5	0.0	
40	PI/2 BPSK	108	108	18.52	18.41	18.46	19.5	0.0	
40	PI/2 BPSK	216	0	18.48	18.42	18.53			
40	QPSK	1	1	18.27	18.37	18.47			
40	QPSK	1	108	18.16	18.25	18.31	19.5	0.0	
40	QPSK	1	214	18.24	18.44	18.29			
40	QPSK	108	0	18.32	18.49	18.30	19.5	0.0	
40	QPSK	108	54	18.22	18.51	18.22	19.5	0.0	
40	QPSK	108	108	18.33	18.37	18.41	19.5	0.0	
40	QPSK	216	0	18.19	18.41	18.32			
40	16QAM	1	1	18.42	18.45	18.28	19.5	0.0	
40	16QAM	1	1	18.38	18.28	18.32	19.5	0.0	
40	256QAM	1	1	17.58	17.68	17.80	18.5	1.0	
Channel				379000	376500	380000			
Frequency (MHz)				1895	1882.5	1900			
30	QPSK	1	1	18.16	18.45	18.38	19.5	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1892.5	1882.5	1902.5			
25	QPSK	1	1	18.19	18.52	18.40	19.5	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	18.19	18.44	18.43	19.5	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1892.5	1882.5	1902.5			
15	QPSK	1	1	18.14	18.43	18.33	19.5	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	18.20	18.50	18.35	19.5	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	18.17	18.50	18.32	19.5	0.0	

n66 Ant 4 DSI6 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				349000	349000	350000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	17.58	17.70	17.84			
40	PI/2 BPSK	1	108	17.50	17.71	17.63	18.5	0.0	
40	PI/2 BPSK	1	214	17.54	17.75	17.86			
40	PI/2 BPSK	108	0	17.48	17.78	17.71	18.5	0.0	
40	PI/2 BPSK	108	54	17.50	17.82	17.65	18.5	0.0	
40	PI/2 BPSK	108	108	17.52	17.78	17.65	18.5	0.0	
40	PI/2 BPSK	216	0	17.60	17.76	17.89			
40	QPSK	1	1	17.76	17.83	17.88			
40	QPSK	1	108	17.54	17.80	17.63	18.5	0.0	
40	QPSK	1	214	17.50	17.75	17.71			
40	QPSK	108	0	17.70	17.70	17.68	18.5	0.0	
40	QPSK	108	54	17.61	17.77	17.88	18.5	0.0	
40	QPSK	108	108	17.50	17.70	17.70	18.5	0.0	
40	QPSK	216	0	17.68	17.74	17.72			
40	16QAM	1	1	17.56	17.70	17.84	18.5	0.0	
40	16QAM	1	1	17.60	17.76	17.61	18.5	0.0	
40	256QAM	1	1	17.61	17.61	17.64	18.5	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.55	17.73	17.80	18.5	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.43	17.23	17.24	18.5	0.0	
Channel				343000	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.59	17.71	17.73	18.5	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.48	17.70	17.62	18.5	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.54	17.78	17.67	18.5	0.0	



n66 Ant 4 DSI6 sig path: 432							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				349000	349000	350000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.33	17.41	17.32	
40	PI/2 BPSK	1	108	17.27	17.58	17.52	18.5
40	PI/2 BPSK	1	214	17.31	17.61	17.43	
40	PI/2 BPSK	108	0	17.23	17.45	17.50	18.5
40	PI/2 BPSK	108	54	17.25	17.56	17.43	18.5
40	PI/2 BPSK	108	108	17.28	17.45	17.41	18.5
40	PI/2 BPSK	216	0	17.30	17.43	17.49	
40	QPSK	1	1	17.51	17.62	17.59	
40	QPSK	1	108	17.38	17.57	17.49	18.5
40	QPSK	1	214	17.31	17.41	17.34	
40	QPSK	108	0	17.31	17.38	17.23	18.5
40	QPSK	108	54	17.47	17.59	17.56	18.5
40	QPSK	108	108	17.49	17.51	17.33	18.5
40	QPSK	216	0	17.51	17.55	17.53	
40	16QAM	1	1	17.17	17.54	17.49	18.5
40	16QAM	1	1	17.33	17.44	17.45	18.5
40	256QAM	1	1	17.18	17.40	17.41	18.5
Channel				345000	345000	350000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	17.34	17.48	17.40	18.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	17.20	17.53	17.41	18.5
Channel				343500	345000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	17.27	17.54	17.49	18.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	17.27	17.60	17.51	18.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	17.33	17.48	17.47	18.5

n71 Ant 4 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				136600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.87	22.98	22.92	
20	PI/2 BPSK	1	53	22.78	22.91	22.83	24.0
20	PI/2 BPSK	1	104	22.68	22.78	22.83	
20	PI/2 BPSK	50	0	22.46	22.57	22.48	23.5
20	PI/2 BPSK	50	26	22.86	22.95	22.89	24.0
20	PI/2 BPSK	50	56	22.34	22.45	22.39	23.5
20	PI/2 BPSK	100	0	22.42	22.57	22.47	
20	QPSK	1	1	22.91	23.05	22.97	
20	QPSK	1	53	22.80	22.92	22.86	24.0
20	QPSK	1	104	22.88	22.76	22.70	
20	QPSK	50	0	21.86	21.96	21.81	23.0
20	QPSK	50	28	22.92	22.97	22.80	24.0
20	QPSK	50	56	21.85	21.85	21.86	23.0
20	QPSK	100	0	22.00	22.07	22.01	
20	16QAM	1	1	22.31	22.37	22.23	23.0
20	16QAM	1	1	20.18	20.30	20.25	21.5
20	256QAM	1	1	18.86	18.73	18.65	19.5
Channel				134100	134100	135100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.83	22.94	22.92	24.0
Channel				133600	136100	138600	
Frequency (MHz)				668	690.5	723	
10	QPSK	1	1	22.83	22.89	22.86	24.0
Channel				133100	136100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.78	22.91	22.86	24.0



Part270 n77 Ant 5 DS16

BW (MHz)	Modulation	RB 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	18.84	16.94	16.99		
100	PI2 BPSK	1	137	18.76	16.91	16.98	18.0	0.0
100	PI2 BPSK	1	271	18.71	16.90	16.91		
100	PI2 BPSK	135	0	18.81	17.01	16.93	18.0	0.0
100	PI2 BPSK	135	69	18.84	16.99	16.97	18.0	0.0
100	PI2 BPSK	135	138	18.81	17.04	16.96	18.0	0.0
100	PI2 BPSK	270	0	18.84	16.95	16.90		
100	QPSK	1	1	18.77	17.06	16.93		
100	QPSK	1	137	18.74	16.91	16.92	18.0	0.0
100	QPSK	1	271	18.72	16.96	16.87		
100	QPSK	135	0	18.83	16.90	16.90	18.0	0.0
100	QPSK	135	69	18.74	16.88	16.90	18.0	0.0
100	QPSK	135	138	18.71	16.90	16.89	18.0	0.0
100	QPSK	270	0	18.81	16.92	16.86		
100	16QAM	1	1	18.83	16.93	16.94	18.0	0.0
100	16QAM	1	1	18.86	16.98	16.97	18.0	0.0
100	256QAM	1	1	18.81	16.88	16.91	18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.98	16.90	16.85	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.72	17.01	16.96	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.84	16.98	16.99	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.84	17.02	16.94	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.82	16.89	16.87	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.81	16.90	16.94	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.85	16.89	16.84	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.82	17.02	16.87	18.0	0.0

Part270 n77 PC2 Ant 5 DS16

BW (MHz)	Modulation	RB 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	18.89	19.94	19.99		
100	PI2 BPSK	1	137	19.95	20.00	19.92	21.0	0.0
100	PI2 BPSK	1	271	19.99	20.04	19.97		
100	PI2 BPSK	135	0	19.91	20.07	19.92	21.0	0.0
100	PI2 BPSK	135	69	19.94	19.98	19.97	21.0	0.0
100	PI2 BPSK	135	138	19.86	20.06	20.01	21.0	0.0
100	PI2 BPSK	270	0	19.91	20.05	20.02		
100	QPSK	1	1	19.92	20.11	19.94		
100	QPSK	1	137	19.88	19.98	19.96	21.0	0.0
100	QPSK	1	271	19.95	20.09	19.93		
100	QPSK	135	0	19.93	19.87	19.89	21.0	0.0
100	QPSK	135	69	19.87	20.04	19.89	21.0	0.0
100	QPSK	135	138	19.93	19.91	19.90	21.0	0.0
100	QPSK	270	0	19.90	19.97	19.89		
100	16QAM	1	1	19.90	19.98	20.04	21.0	0.0
100	16QAM	1	1	19.92	19.96	20.02	21.0	0.0
100	256QAM	1	1	19.94	19.96	20.03	21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.96	19.93	19.94	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.85	19.93	19.96	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.90	20.04	19.91	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.90	20.01	19.97	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.96	20.00	19.91	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.92	19.95	19.93	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.84	19.89	19.95	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.82	20.00	19.98	21.0	0.0

Part27Q n77 Ant 5 DS16

BW (MHz)	Modulation	RB 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		3499.98			
100	PI2 BPSK	1	137		18.67		18.0	0.0
100	PI2 BPSK	1	271		18.67			
100	PI2 BPSK	135	0		18.67		18.0	0.0
100	PI2 BPSK	135	69		18.59		18.0	0.0
100	PI2 BPSK	135	138		18.60		18.0	0.0
100	PI2 BPSK	270	0		18.60			
100	QPSK	1	1		18.70			
100	QPSK	1	137		18.66		18.0	0.0
100	QPSK	1	271		18.57			
100	QPSK	135	0		18.51		18.0	0.0
100	QPSK	135	69		18.65		18.0	0.0
100	QPSK	135	138		18.51		18.0	0.0
100	QPSK	270	0		18.56			
100	16QAM	1	1		18.68		18.0	0.0
100	16QAM	1	1		18.53		18.0	0.0
100	256QAM	1	1		18.62		17.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63332	63388	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	63234	63332	63432	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	63200	63332	63468	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3480	3499.98	3519.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	63168	63332	63500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3475.02	3499.98	3525	Tune-up limit (dBm)	MPR (dB)



Part27Q n77 PC2 Ant 5 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3499.98					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	19.51	19.51	19.51			
100	PI2 BPSK	1	137	19.56	19.56	19.56	21.0	0.0	
100	PI2 BPSK	1	271	19.41	19.41	19.41			
100	PI2 BPSK	135	69	19.53	19.53	19.53	21.0	0.0	
100	PI2 BPSK	135	69	19.44	19.44	19.44	21.0	0.0	
100	PI2 BPSK	135	138	19.48	19.48	19.48	21.0	0.0	
100	PI2 BPSK	270	0	19.55	19.55	19.55			
100	QPSK	1	1	19.58	19.58	19.58			
100	QPSK	1	137	19.42	19.42	19.42	21.0	0.0	
100	QPSK	1	271	19.46	19.46	19.46			
100	QPSK	135	0	19.50	19.50	19.50	21.0	0.0	
100	QPSK	135	69	19.51	19.51	19.51	21.0	0.0	
100	QPSK	135	138	19.44	19.44	19.44	21.0	0.0	
100	QPSK	270	0	19.44	19.44	19.44			
100	16QAM	1	1	19.42	19.42	19.42	21.0	0.0	
100	16QAM	1	1	19.49	19.49	19.49	21.0	0.0	
100	256QAM	1	1	19.44	19.44	19.44	20.0	1.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	19.41	19.42	19.51	21.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.44	19.54	19.45	21.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.49	19.49	19.42	21.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	19.52	19.47	19.55	21.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.51	19.50	19.42	21.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.50	19.46	19.47	21.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.69			
30	QPSK	1	1	19.53	19.45	19.44	21.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.48	19.50	19.48	21.0	0.0	

Part27O n78 Ant 5 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	16.97	16.97	16.97			
100	PI2 BPSK	1	137	16.91	16.91	16.91	18.0	0.0	
100	PI2 BPSK	1	271	16.96	16.96	16.96			
100	PI2 BPSK	135	0	17.11	17.11	17.11	18.0	0.0	
100	PI2 BPSK	135	69	16.91	16.91	16.91	18.0	0.0	
100	PI2 BPSK	135	138	17.05	17.05	17.05	18.0	0.0	
100	PI2 BPSK	270	0	17.08	17.08	17.08			
100	QPSK	1	1	17.16	17.16	17.16			
100	QPSK	1	137	16.81	16.81	16.81	18.0	0.0	
100	QPSK	1	271	17.13	17.13	17.13			
100	QPSK	135	0	17.04	17.04	17.04	18.0	0.0	
100	QPSK	135	69	17.08	17.08	17.08	18.0	0.0	
100	QPSK	135	138	16.86	16.86	16.86	18.0	0.0	
100	QPSK	270	0	17.04	17.04	17.04			
100	16QAM	1	1	17.05	17.05	17.05	18.0	0.0	
100	16QAM	1	1	16.89	16.89	16.89	18.0	0.0	
100	256QAM	1	1	17.02	17.02	17.02	18.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.85	16.80	16.78	18.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.91	16.93	16.85	18.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.87	16.84	16.88	18.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3760.01			
60	QPSK	1	1	16.91	16.90	16.81	18.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.90	16.90	16.85	18.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.81	16.87	16.82	18.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1	16.99	16.79	16.87	18.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.79	16.84	16.93	18.0	0.0	

Part27O n78 PC2 Ant 5 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	20.07	20.07	20.07			
100	PI2 BPSK	1	137	20.07	20.07	20.07	21.0	0.0	
100	PI2 BPSK	1	271	20.12	20.12	20.12			
100	PI2 BPSK	135	0	20.14	20.14	20.14	21.0	0.0	
100	PI2 BPSK	135	69	20.10	20.10	20.10	21.0	0.0	
100	PI2 BPSK	135	138	20.18	20.18	20.18	21.0	0.0	
100	PI2 BPSK	270	0	20.11	20.11	20.11			
100	QPSK	1	1	20.23	20.23	20.23			
100	QPSK	1	137	20.21	20.21	20.21	21.0	0.0	
100	QPSK	1	271	20.16	20.16	20.16			
100	QPSK	135	0	20.01	20.01	20.01	21.0	0.0	
100	QPSK	135	69	20.17	20.17	20.17	21.0	0.0	
100	QPSK	135	138	20.05	20.05	20.05	21.0	0.0	
100	QPSK	270	0	20.07	20.07	20.07			
100	16QAM	1	1	20.18	20.18	20.18	21.0	0.0	
100	16QAM	1	1	20.10	20.10	20.10	21.0	0.0	
100	256QAM	1	1	20.11	20.11	20.11	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.21	20.18	20.07	21.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	20.18	20.12	20.10	21.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	20.20	20.18	20.19	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3760.01			
60	QPSK	1	1	20.18	20.18	20.20	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.21	20.12	20.11	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.19	20.13	20.05	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1	20.10	20.09	20.06	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.14	20.17	20.20	21.0	0.0	



Part27Q n78 Ant 5 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		17.08				
100	PI2 BPSK	1	137		17.12			0.0	
100	PI2 BPSK	1	271		17.10				
100	PI2 BPSK	135	0		17.11		18.0	0.0	
100	PI2 BPSK	135	69		17.01		18.0	0.0	
100	PI2 BPSK	135	138		17.14		18.0	0.0	
100	PI2 BPSK	270	0		17.05		18.0	0.0	
100	QPSK	1	1		17.16		18.0	0.0	
100	QPSK	1	137		17.11				
100	QPSK	1	271		17.14				
100	QPSK	135	0		17.04		18.0	0.0	
100	QPSK	135	69		17.08		18.0	0.0	
100	QPSK	135	138		17.22		18.0	0.0	
100	QPSK	270	0		17.05		18.0	0.0	
100	16QAM	1	1		17.10		18.0	0.0	
100	16QAM	1	1		17.01		18.0	0.0	
100	256QAM	1	1		17.07		18.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1	17.04	17.09	16.99	18.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.03	17.13	16.99	18.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1	17.07	17.10	17.08	18.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	17.06	17.10	17.06	18.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.08	16.99	17.07	18.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.00	17.13	17.04	18.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.00	17.11	17.00	18.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.06	17.00	17.07	18.0	0.0	

Part27Q n78 PC2 Ant 5 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		19.89				
100	PI2 BPSK	1	137		19.97			21.0	0.0
100	PI2 BPSK	1	271		19.94				
100	PI2 BPSK	135	0		19.81		21.0	0.0	
100	PI2 BPSK	135	69		19.94		21.0	0.0	
100	PI2 BPSK	135	138		19.85		21.0	0.0	
100	PI2 BPSK	270	0		19.90		21.0	0.0	
100	QPSK	1	1		20.01				
100	QPSK	1	137		19.86		21.0	0.0	
100	QPSK	1	271		19.94				
100	QPSK	135	0		19.91		21.0	0.0	
100	QPSK	135	69		19.94		21.0	0.0	
100	QPSK	135	138		19.80		21.0	0.0	
100	QPSK	270	0		19.85		21.0	0.0	
100	16QAM	1	1		19.95		21.0	0.0	
100	16QAM	1	1		19.94		21.0	0.0	
100	256QAM	1	1		19.93		21.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1	19.90	19.90	19.93	21.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	19.84	19.93	19.89	21.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01			
70	QPSK	1	1	19.87	19.83	19.82	21.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.91	19.86	19.82	21.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.87	19.84	19.90	21.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	19.85	19.84	19.84	21.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	19.92	19.87	19.89	21.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.86	19.96	19.88	21.0	0.0	



Reduced Power Mode for Main PA DS17 Standalone

n2 Ant 0 DS17 sig path: 164									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				372000	376000	380000			
Frequency (MHz)				1800	1800	1900			
20	PI2 BPSK	1	1	15.77	15.85	15.89			
20	PI2 BPSK	1	53	15.53	15.68	15.35	16.5	0.0	
20	PI2 BPSK	1	104	15.56	15.48	15.52			
20	PI2 BPSK	50	0	15.55	15.77	15.81	16.5	0.0	
20	PI2 BPSK	50	28	15.48	15.64	15.43	16.5	0.0	
20	PI2 BPSK	50	56	15.43	15.84	15.53			
20	PI2 BPSK	100	0	15.47	15.66	15.85	16.5	0.0	
20	QPSK	1	1	15.72	15.83	15.53			
20	QPSK	1	53	15.83	15.66	15.71	16.5	0.0	
20	QPSK	1	104	15.50	15.66	15.58			
20	QPSK	50	0	15.65	15.80	15.73	16.5	0.0	
20	QPSK	50	28	15.54	15.76	15.42	16.5	0.0	
20	QPSK	50	56	15.68	15.58	15.84	16.5	0.0	
20	QPSK	100	0	15.53	15.72	15.84	16.5	0.0	
20	16QAM	1	1	15.36	15.49	15.31	16.5	0.0	
20	64QAM	1	1	15.45	15.59	15.34	16.5	0.0	
20	256QAM	1	1	15.72	15.34	15.48	16.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	15.81	15.56	15.60	16.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	15.47	15.56	15.80	16.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	15.47	15.55	15.94	16.5	0.0	

n2 Ant 0 DS17 sig path: 429									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				372000	376000	380000			
Frequency (MHz)				1800	1800	1900			
20	PI2 BPSK	1	1	15.81	15.83	15.75			
20	PI2 BPSK	1	53	15.85	15.80	15.50	16.5	0.0	
20	PI2 BPSK	1	104	15.86	15.74	15.80			
20	PI2 BPSK	50	0	15.83	15.73	15.82	16.5	0.0	
20	PI2 BPSK	50	28	15.76	15.76	15.58	16.5	0.0	
20	PI2 BPSK	50	56	15.53	15.84	15.59			
20	PI2 BPSK	100	0	15.85	15.81	15.57	16.5	0.0	
20	QPSK	1	1	15.77	15.82	15.71			
20	QPSK	1	53	15.83	15.85	15.69	16.5	0.0	
20	QPSK	1	104	15.59	15.88	15.74			
20	QPSK	50	0	15.87	15.68	15.75	16.5	0.0	
20	QPSK	50	28	15.81	15.83	15.70	16.5	0.0	
20	QPSK	50	56	15.71	15.78	15.68	16.5	0.0	
20	QPSK	100	0	15.75	15.80	15.76	16.5	0.0	
20	16QAM	1	1	15.53	15.62	15.49	16.5	0.0	
20	64QAM	1	1	15.47	15.75	15.56	16.5	0.0	
20	256QAM	1	1	15.75	15.46	15.64	16.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	15.88	15.76	15.53	16.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	15.62	15.82	15.56	16.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	15.60	15.81	15.54	16.5	0.0	

n5 Ant 0 DS17 sig path: 168									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq			
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.84	22.57	22.59			
20	PI2 BPSK	1	53	22.57	22.57	22.44	23.5	0.0	
20	PI2 BPSK	1	104	22.54	22.50	22.41			
20	PI2 BPSK	50	0	22.59	22.54	22.55	23.5	0.0	
20	PI2 BPSK	50	28	22.38	22.39	22.38	23.5	0.0	
20	PI2 BPSK	50	56	22.50	22.70	22.68			
20	PI2 BPSK	100	0	22.34	22.84	22.38	23.5	0.0	
20	QPSK	1	1	22.61	22.75	22.57			
20	QPSK	1	53	22.82	22.59	22.66	23.5	0.0	
20	QPSK	1	104	22.53	22.84	22.56			
20	QPSK	50	0	21.86	22.03	21.84	23.0	0.5	
20	QPSK	50	28	22.41	22.48	22.37	23.5	0.0	
20	QPSK	50	56	22.04	21.96	21.95	23.0	0.5	
20	QPSK	100	0	22.09	22.14	21.99	23.0	0.5	
20	16QAM	1	1	21.99	21.97	22.00	23.0	0.5	
20	64QAM	1	1	20.51	20.60	20.40	21.5	2.0	
20	256QAM	1	1	18.31	18.63	18.55	19.5	4.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.50	22.82	22.58	23.5	0.0	
Channel				165800	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.82	22.87	22.59	23.5	0.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.50	22.55	22.53	23.5	0.0	



n5 Ant 0 DS17 sig path: 414

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.26	22.21	22.29	23.5	0.0
20	PI2 BPSK	1	53	22.22	22.26	22.14		
20	PI2 BPSK	1	104	22.16	22.16	22.05		
20	PI2 BPSK	50	0	22.32	22.22	22.30	23.5	0.0
20	PI2 BPSK	50	26	22.03	22.08	22.10	23.5	0.0
20	PI2 BPSK	50	56	22.13	22.42	22.43	23.5	0.0
20	PI2 BPSK	100	0	21.97	22.42	22.02	23.5	0.0
20	QPSK	1	1	22.27	22.40	22.32	23.5	0.0
20	QPSK	1	53	22.33	22.33	22.30		
20	QPSK	1	104	22.16	22.32	22.24		
20	QPSK	50	0	21.86	21.79	21.49	23.0	0.5
20	QPSK	50	26	22.08	22.23	22.11	23.5	0.0
20	QPSK	50	56	21.79	21.71	21.57	23.0	0.5
20	QPSK	100	0	21.83	21.96	21.70	23.0	0.5
20	16QAM	1	1	21.84	21.84	21.77	23.0	0.5
20	64QAM	1	1	20.22	20.34	20.09	21.5	2.0
20	256QAM	1	1	18.03	18.41	18.20	19.5	4.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.20	22.35	22.30	23.5	0.0
Channel				166900	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.17	22.35	22.19	23.5	0.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				833.5	836.5	840.5		
5	QPSK	1	1	22.12	22.40	22.26	23.5	0.0

n12 Ant 0 DS17 sig path: 172

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.97	23.08	22.95	24.0	0.0
15	PI2 BPSK	1	40	22.85	22.96	22.87		
15	PI2 BPSK	1	77	22.88	23.02	22.91		
15	PI2 BPSK	36	0	22.53	22.83	22.57	23.5	0.5
15	PI2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI2 BPSK	36	43	22.46	22.56	22.48	23.5	0.5
15	PI2 BPSK	75	0	22.46	22.57	22.51	23.5	0.5
15	QPSK	1	1	22.99	23.13	23.03	24.0	0.0
15	QPSK	1	40	23.03	23.09	22.98		
15	QPSK	1	77	22.93	23.05	22.93		
15	QPSK	36	0	21.97	22.03	21.96	23.0	1.0
15	QPSK	36	22	22.97	23.04	22.93	24.0	0.0
15	QPSK	36	43	21.88	21.93	21.87	23.0	1.0
15	QPSK	75	0	21.91	21.98	21.86	23.0	1.0
15	16QAM	1	1	21.89	22.02	21.85	23.0	1.0
15	64QAM	1	1	20.54	20.65	20.51	21.5	2.5
15	256QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel				140300	141500	142300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.89	23.02	22.98	24.0	0.0

n12 Ant 0 DS17 sig path: 417

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.85	22.82	24.0	0.0
15	PI2 BPSK	1	40	22.88	22.78	22.86		
15	PI2 BPSK	1	77	22.70	22.80	22.83		
15	PI2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI2 BPSK	36	22	22.76	22.79	22.74	24.0	0.0
15	PI2 BPSK	36	43	22.38	22.37	22.29	23.5	0.5
15	PI2 BPSK	75	0	22.31	22.46	22.32	23.5	0.5
15	QPSK	1	1	22.92	22.93	22.88	24.0	0.0
15	QPSK	1	40	22.82	22.78	22.73		
15	QPSK	1	77	22.74	22.82	22.84		
15	QPSK	36	0	21.88	21.94	21.89	23.0	1.0
15	QPSK	36	22	22.80	22.85	22.88	24.0	0.0
15	QPSK	36	43	21.76	21.88	21.81	23.0	1.0
15	QPSK	75	0	21.80	21.96	21.86	23.0	1.0
15	16QAM	1	1	22.20	22.24	22.13	23.0	1.0
15	64QAM	1	1	20.08	20.11	20.08	21.5	2.5
15	256QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel				140300	141500	142300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.90	22.76	22.79	24.0	0.0



Reduced Power Mode for Main PA DS17 Standalone

n14 Ant 0 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158600	158600	159100			
Frequency (MHz)				793					
10	PI2 BPSK	1	1	22.91			24.0	0.0	
10	PI2 BPSK	1	26	22.95					
10	PI2 BPSK	1	50	22.92					
10	PI2 BPSK	25	0	22.47			23.5	0.5	
10	PI2 BPSK	25	14	23.01			24.0	0.0	
10	PI2 BPSK	25	27	22.39					
10	PI2 BPSK	50	0	22.33			23.5	0.5	
10	QPSK	1	1	23.08					
10	QPSK	1	26	22.95			24.0	0.0	
10	QPSK	1	50	22.98					
10	QPSK	25	0	22.02			23.0	1.0	
10	QPSK	25	14	22.58			24.0	0.0	
10	QPSK	25	27	22.09			23.0	1.0	
10	QPSK	50	0	22.13					
10	16QAM	1	1	22.11			23.0	1.0	
10	64QAM	1	1	20.62			21.5	2.5	
10	256QAM	1	1	18.63			19.5	4.5	
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.88	22.99	22.98	24.0	0.0	

n25 Ant 0 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1905			
40	PI2 BPSK	1	1	15.96	16.06	15.97			
40	PI2 BPSK	1	108	15.81	15.80	15.70	16.5	0.0	
40	PI2 BPSK	1	214	15.69	15.94	15.72			
40	PI2 BPSK	108	0	15.74	15.94	15.85	16.5	0.0	
40	PI2 BPSK	108	54	15.85	15.90	15.81	16.5	0.0	
40	PI2 BPSK	108	108	15.77	15.84	15.73			
40	PI2 BPSK	216	0	15.92	15.97	15.83	16.5	0.0	
40	QPSK	1	1	15.94	16.11	15.88			
40	QPSK	1	108	15.87	15.90	16.00	16.5	0.0	
40	QPSK	1	214	15.95	15.96	15.80			
40	QPSK	108	0	15.95	15.91	15.86	16.5	0.0	
40	QPSK	108	54	15.83	15.94	15.88	16.5	0.0	
40	QPSK	108	108	15.70	15.76	15.74	16.5	0.0	
40	QPSK	216	0	15.68	15.81	15.77			
40	16QAM	1	1	15.78	15.80	15.55	16.5	0.0	
40	64QAM	1	1	15.09	15.80	15.88	16.5	0.0	
40	256QAM	1	1	15.85	15.52	15.91	16.5	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	15.82	16.04	15.77	16.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	15.84	16.09	15.71	16.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	15.99	16.09	15.69	16.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	15.71	16.01	15.75	16.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	15.78	15.97	15.83	16.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	15.81	16.06	15.75	16.5	0.0	

n26 Ant 0 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.46	22.70	22.50			
20	PI2 BPSK	1	53	22.50	22.57	22.50	23.5	0.0	
20	PI2 BPSK	1	104	22.43	22.57	22.38			
20	PI2 BPSK	50	0	22.70	22.81	22.83	23.5	0.0	
20	PI2 BPSK	50	26	22.60	22.54	22.52	23.5	0.0	
20	PI2 BPSK	50	58	22.70	22.89	22.69			
20	PI2 BPSK	100	0	22.70	22.81	22.84	23.5	0.0	
20	QPSK	1	1	22.55	22.71	22.68			
20	QPSK	1	53	22.82	22.59	22.52	23.5	0.0	
20	QPSK	1	104	22.41	22.54	22.61			
20	QPSK	50	0	22.15	22.30	22.16	23.0	0.5	
20	QPSK	50	26	22.63	22.70	22.62	23.5	0.0	
20	QPSK	50	58	22.06	22.10	22.00	23.0	0.5	
20	QPSK	100	0	22.13	22.20	22.15			
20	16QAM	1	1	22.36	22.49	22.28	23.0	0.5	
20	64QAM	1	1	20.40	20.50	20.41	21.5	2.0	
20	256QAM	1	1	18.68	18.80	18.86	19.5	4.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.41	22.63	22.50	23.5	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.44	22.56	22.57	23.5	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.39	22.56	22.63	23.5	0.0	



n66 Ant 0 DS17 sig path: 174

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.73	16.76	16.75		
40	PI2 BPSK	1	108	16.83	16.75	16.47	18.0	0.0
40	PI2 BPSK	1	214	16.48	16.74	16.51		
40	PI2 BPSK	108	0	16.71	16.67	16.67	18.0	0.0
40	PI2 BPSK	108	54	16.60	16.69	16.53	18.0	0.0
40	PI2 BPSK	108	108	16.53	16.79	16.62	18.0	0.0
40	PI2 BPSK	216	0	16.77	16.74	16.62	18.0	0.0
40	QPSK	1	1	16.82	16.87	16.64		
40	QPSK	1	108	16.75	16.82	16.70	18.0	0.0
40	QPSK	1	214	16.53	16.81	16.61		
40	QPSK	108	0	16.77	16.65	16.75	18.0	0.0
40	QPSK	108	54	16.51	16.73	16.58	18.0	0.0
40	QPSK	108	108	16.67	16.60	16.78	18.0	0.0
40	QPSK	216	0	16.69	16.71	16.69	18.0	0.0
40	16QAM	1	1	16.57	16.62	16.51	18.0	0.0
40	64QAM	1	1	16.55	16.70	16.54	18.0	0.0
40	256QAM	1	1	16.75	16.40	16.60	18.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	16.64	16.78	16.61	18.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.66	16.83	16.50	18.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.65	16.77	16.50	18.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.62	16.76	16.58	18.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.63	16.76	16.61	18.0	0.0

n66 Ant 0 DS17 sig path: 432

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.77	16.78	16.75		
40	PI2 BPSK	1	108	16.75	16.89	16.61	18.0	0.0
40	PI2 BPSK	1	214	16.51	16.75	16.69		
40	PI2 BPSK	108	0	16.54	16.80	16.67	18.0	0.0
40	PI2 BPSK	108	54	16.61	16.72	16.65	18.0	0.0
40	PI2 BPSK	108	108	16.53	16.75	16.60	18.0	0.0
40	PI2 BPSK	216	0	16.68	16.83	16.70	18.0	0.0
40	QPSK	1	1	16.64	16.91	16.78		
40	QPSK	1	108	16.60	16.88	16.84	18.0	0.0
40	QPSK	1	214	16.61	16.74	16.68		
40	QPSK	108	0	16.66	16.68	16.63	18.0	0.0
40	QPSK	108	54	16.48	16.77	16.64	18.0	0.0
40	QPSK	108	108	16.60	16.65	16.57	18.0	0.0
40	QPSK	216	0	16.65	16.72	16.65	18.0	0.0
40	16QAM	1	1	16.39	16.60	16.57	18.0	0.0
40	64QAM	1	1	16.61	16.55	16.47	18.0	0.0
40	256QAM	1	1	16.79	16.46	16.67	18.0	0.0
Channel				346000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	16.53	16.88	16.62	18.0	0.0
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.66	16.80	16.59	18.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.59	16.73	16.53	18.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.59	16.85	16.61	18.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.55	16.78	16.65	18.0	0.0

n70 Ant 0 DS17

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349500	351000		
Frequency (MHz)				1700	1702.5	1705		
15	PI2 BPSK	1	1				18.0	0.0
15	PI2 BPSK	1	40					
15	PI2 BPSK	1	77					
15	PI2 BPSK	36	0				18.0	0.0
15	PI2 BPSK	36	22				18.0	0.0
15	PI2 BPSK	36	43				18.0	0.0
15	PI2 BPSK	75	0				18.0	0.0
15	QPSK	1	1					
15	QPSK	1	40				18.0	0.0
15	QPSK	1	77					
15	QPSK	36	0				18.0	0.0
15	QPSK	36	22				18.0	0.0
15	QPSK	36	43				18.0	0.0
15	QPSK	75	0				18.0	0.0
15	16QAM	1	1				18.0	0.0
15	64QAM	1	1				18.0	0.0
15	256QAM	1	1				18.0	0.0
Channel				346000	349500	351000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1				18.0	0.0
Channel				350000	349500	349500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1				18.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.21	23.12		
20	PI/2 BPSK	1	53	23.03	23.15	23.01	24.0	0.0
20	PI/2 BPSK	1	104	23.02	23.10	22.95		
20	PI/2 BPSK	50	0	22.67	22.73	22.84	23.5	0.5
20	PI/2 BPSK	50	28	23.01	23.11	23.04	24.0	0.0
20	PI/2 BPSK	50	56	22.52	22.62	22.57		
20	PI/2 BPSK	100	0	22.70	22.77	22.82	23.5	0.5
20	QPSK	1	1	23.13	23.24	23.18		
20	QPSK	1	53	23.10	23.21	23.15	24.0	0.0
20	QPSK	1	104	23.00	23.13	23.06		
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0
20	QPSK	50	28	23.06	23.18	23.06	24.0	0.0
20	QPSK	50	56	21.97	22.11	21.97		
20	QPSK	100	0	22.10	22.23	22.17	23.0	1.0
20	16QAM	1	1	22.27	22.47	22.39	23.0	1.0
20	16QAM	1	1	20.46	20.60	20.54	21.5	2.5
20	256QAM	1	1	18.87	18.99	18.94	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.86	23.10	23.04	24.0	0.0
Channel				130500	131500	132500		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.93	23.11	23.05	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				503000	507000	510000			
Frequency (MHz)				2530	2535	2550			
40	PI/2 BPSK	1	1	18.74	18.82	18.78			
40	PI/2 BPSK	1	108	18.68	18.80	18.49	19.5	0.0	
40	PI/2 BPSK	1	214	18.80	18.67	18.86			
40	PI/2 BPSK	108	0	18.82	18.80	18.68	19.5	0.0	
40	PI/2 BPSK	108	54	18.68	18.78	18.66	19.5	0.0	
40	PI/2 BPSK	108	108	18.68	18.70	18.69	19.5	0.0	
40	PI/2 BPSK	216	0	18.66	18.88	18.70			
40	QPSK	1	1	18.70	18.83	18.69			
40	QPSK	1	108	18.58	18.77	18.75	19.5	0.0	
40	QPSK	1	214	18.83	18.84	18.70			
40	QPSK	108	0	18.71	18.78	18.72	19.5	0.0	
40	QPSK	108	54	18.55	18.62	18.66	19.5	0.0	
40	QPSK	108	108	18.75	18.67	18.79	19.5	0.0	
40	QPSK	216	0	18.58	18.80	18.75			
40	16QAM	1	1	18.58	18.67	18.54	19.5	0.0	
40	16QAM	1	1	18.58	18.78	18.55	19.5	0.0	
40	256QAM	1	1	18.79	18.42	18.57	19.5	0.0	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.64	18.88	18.61	19.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2527.5			
25	QPSK	1	1	18.52	18.85	18.63	19.5	0.0	
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	18.88	18.89	18.62	19.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.68	18.75	18.65	19.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.57	18.79	18.52	19.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2587.5			
5	QPSK	1	1	18.68	18.78	18.59	19.5	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				481500	482500	483500			
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		20.31				
10	PI/2 BPSK	1	26		20.20		21.0	0.0	
10	PI/2 BPSK	1	50		20.19		21.0	0.0	
10	PI/2 BPSK	25	0		20.28		21.0	0.0	
10	PI/2 BPSK	25	14		20.33		21.0	0.0	
10	PI/2 BPSK	25	27		20.27		21.0	0.0	
10	PI/2 BPSK	50	0		20.33				
10	QPSK	1	1		20.41		21.0	0.0	
10	QPSK	1	26		20.29				
10	QPSK	1	50		20.29				
10	QPSK	25	0		20.19		21.0	0.0	
10	QPSK	25	14		20.38		21.0	0.0	
10	QPSK	25	27		20.20		21.0	0.0	
10	QPSK	50	0		20.27				
10	16QAM	1	1		20.14		21.0	0.0	
10	16QAM	1	1		20.19		21.0	0.0	
10	256QAM	1	1		18.74		19.5	1.5	
Channel				481500	482500	483500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	20.15	20.31	20.07	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	17.80	17.84	17.87		
100	PI2 BPSK	1	137	17.74	17.81	17.73		0.0
100	PI2 BPSK	1	271	17.68	17.76	17.76		0.0
100	PI2 BPSK	135	0	17.89	17.86	17.81	19.0	0.0
100	PI2 BPSK	135	69	17.76	17.82	17.82	19.0	0.0
100	PI2 BPSK	135	138	17.73	17.77	17.80	19.0	0.0
100	PI2 BPSK	270	0	17.77	17.87	17.82		
100	QPSK	1	1	17.85	17.89	17.84		
100	QPSK	1	137	17.76	17.81	17.86	19.0	0.0
100	QPSK	1	271	17.74	17.86	17.74		
100	QPSK	135	0	17.79	17.77	17.79	19.0	0.0
100	QPSK	135	69	17.87	17.86	17.89	19.0	0.0
100	QPSK	135	138	17.81	17.81	17.78	19.0	0.0
100	QPSK	270	0	17.75	17.85	17.82		
100	16QAM	1	1	17.67	17.75	17.65	19.0	0.0
100	64QAM	1	1	17.82	17.85	17.61	19.0	0.0
100	256QAM	1	1	17.73	17.89	17.68	19.0	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.69	17.80	17.71	19.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	2536.02	2592.99	2649.99		
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	2531.01	2592.99	2655		
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	17.76	17.81	17.76	19.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	2521.02	2592.99	2664.99		
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.82	17.84	17.73	19.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996		
30	QPSK	1	1	2511	2522.99	2574.98		
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	17.79	17.77	17.72	19.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.86	20.93	21.00		
100	PI2 BPSK	1	137	20.89	20.96	20.75	22.0	0.0
100	PI2 BPSK	1	271	20.76	20.84	20.85		
100	PI2 BPSK	135	0	20.82	21.01	20.92	22.0	0.0
100	PI2 BPSK	135	69	20.79	20.96	20.86	22.0	0.0
100	PI2 BPSK	135	138	20.77	20.81	20.89	22.0	0.0
100	PI2 BPSK	270	0	20.80	21.01	20.90		
100	QPSK	1	1	21.02	21.03	20.96		
100	QPSK	1	137	20.93	20.83	21.02	22.0	0.0
100	QPSK	1	271	20.86	21.00	20.79		
100	QPSK	135	0	20.87	20.86	20.82	22.0	0.0
100	QPSK	135	69	20.73	20.94	20.87	22.0	0.0
100	QPSK	135	138	20.79	20.81	20.75	22.0	0.0
100	QPSK	270	0	20.82	20.85	20.82		
100	16QAM	1	1	20.71	20.89	20.82	22.0	0.0
100	64QAM	1	1	20.80	20.98	20.64	22.0	0.0
100	256QAM	1	1	20.76	20.81	20.95	22.0	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.95	20.91	20.80	22.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	2536.02	2592.99	2649.99		
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	2531.01	2592.99	2655		
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	20.89	20.94	20.88	22.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	20.97	20.89	20.82	22.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.86	20.95	20.92	22.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996		
30	QPSK	1	1	2511	2522.99	2574.98		
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	20.96	20.99	20.90	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)				3750	3840	3930		
100	PI2 BPSK	1	1	14.36	14.46	14.38		
100	PI2 BPSK	1	137	14.22	14.35	14.22		0.0
100	PI2 BPSK	1	271	14.17	14.21	14.21		0.0
100	PI2 BPSK	135	0	14.15	14.36	14.37	16.0	0.0
100	PI2 BPSK	135	69	14.30	14.34	14.26	16.0	0.0
100	PI2 BPSK	135	138	14.15	14.37	14.21	16.0	0.0
100	PI2 BPSK	270	0	14.28	14.37	14.33		
100	QPSK	1	1	14.31	14.53	14.27		
100	QPSK	1	137	14.30	14.43	14.32	16.0	0.0
100	QPSK	1	271	14.28	14.43	14.38		
100	QPSK	135	0	14.36	14.36	14.28	16.0	0.0
100	QPSK	135	69	14.19	14.45	14.24	16.0	0.0
100	QPSK	135	138	14.21	14.30	14.23	16.0	0.0
100	QPSK	270	0	14.24	14.34	14.30		
100	16QAM	1	1	14.08	14.14	14.06	16.0	0.0
100	64QAM	1	1	14.13	14.32	14.15	16.0	0.0
100	256QAM	1	1	14.40	14.08	14.30	16.0	0.0
Channel								
Frequency (MHz)				649334	656000	662334		
90	QPSK	1	1	14.15	14.38	14.10	16.0	0.0
Channel								
Frequency (MHz)				649334	656000	662998		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649300	656000	663000		
70	QPSK	1	1	14.28	14.43	14.25	16.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	14.23	14.48	14.29	16.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.22	14.43	14.17	16.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	3712.02	3840	3925.01		
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	14.24	14.51	14.24	16.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3840	3930		
100	PI2 BPSK	1	1	17.30	17.46	17.31		
100	PI2 BPSK	1	137	17.15	17.29	17.22	19.0	0.0
100	PI2 BPSK	1	271	17.15	17.15	17.17		
100	PI2 BPSK	135	0	17.18	17.34	17.40	19.0	0.0
100	PI2 BPSK	135	69	17.36	17.38	17.31	19.0	0.0
100	PI2 BPSK	135	138	17.20	17.34	17.13	19.0	0.0
100	PI2 BPSK	270	0	17.24	17.35	17.40		
100	QPSK	1	1	17.31	17.54	17.25		
100	QPSK	1	137	17.25	17.34	17.29	19.0	0.0
100	QPSK	1	271	17.20	17.37	17.37		
100	QPSK	135	0	17.32	17.37	17.32	19.0	0.0
100	QPSK	135	69	17.16	17.41	17.18	19.0	0.0
100	QPSK	135	138	17.20	17.30	17.23	19.0	0.0
100	QPSK	270	0	17.26	17.35	17.26		
100	16QAM	1	1	17.02	17.14	17.15	19.0	0.0
100	16QAM	1	1	17.10	17.29	17.20	19.0	0.0
100	256QAM	1	1	17.37	17.18	17.26	19.0	0.0
Channel								
Frequency (MHz)								
				6493.86	6500.00	6506.14		
90	QPSK	1	1	17.27	17.51	17.19	19.0	0.0
Channel								
Frequency (MHz)								
				6493.34	656000	662668		
80	QPSK	1	1	17.23	17.52	17.19	19.0	0.0
Channel								
Frequency (MHz)								
				6490.00	656000	663000		
70	QPSK	1	1	17.29	17.46	17.17	19.0	0.0
Channel								
Frequency (MHz)								
				6486.68	656000	663334		
60	QPSK	1	1	17.14	17.50	17.08	19.0	0.0
Channel								
Frequency (MHz)								
				6483.34	656000	663668		
50	QPSK	1	1	17.33	17.42	17.14	19.0	0.0
Channel								
Frequency (MHz)								
				6475.02	3840	3955.02		
40	QPSK	1	1	17.33	17.51	17.13	19.0	0.0
Channel								
Frequency (MHz)								
				6476.68	656000	664334		
30	QPSK	1	1	17.23	17.52	17.29	19.0	0.0
Channel								
Frequency (MHz)								
				6473.34	656000	664668		
20	QPSK	1	1	17.10	17.40	17.22	19.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
						3499.98		
100	PI2 BPSK	1	1		15.52			
100	PI2 BPSK	1	137		15.38		16.0	0.0
100	PI2 BPSK	1	271		15.33			
100	PI2 BPSK	135	0		15.41		16.0	0.0
100	PI2 BPSK	135	69		15.42		16.0	0.0
100	PI2 BPSK	135	138		15.34		16.0	0.0
100	PI2 BPSK	270	0		15.39			
100	QPSK	1	1		15.57			
100	QPSK	1	137		15.37		16.0	0.0
100	QPSK	1	271		15.44			
100	QPSK	135	0		15.37		16.0	0.0
100	QPSK	135	69		15.54		16.0	0.0
100	QPSK	135	138		15.40		16.0	0.0
100	QPSK	270	0		15.45			
100	16QAM	1	1		15.20		16.0	0.0
100	16QAM	1	1		15.27		16.0	0.0
100	256QAM	1	1		15.14		16.0	0.0
Channel								
Frequency (MHz)								
				6330.00	633332	633668		
90	QPSK	1	1	15.20	15.43	15.28	16.0	0.0
Channel								
Frequency (MHz)								
				6326.68	633332	634000		
80	QPSK	1	1	15.19	15.47	15.24	16.0	0.0
Channel								
Frequency (MHz)								
				6323.34	633332	634332		
70	QPSK	1	1	15.20	15.50	15.38	16.0	0.0
Channel								
Frequency (MHz)								
				6320.00	633332	634668		
60	QPSK	1	1	15.10	15.51	15.28	16.0	0.0
Channel								
Frequency (MHz)								
				6316.68	633332	635000		
50	QPSK	1	1	15.22	15.49	15.37	16.0	0.0
Channel								
Frequency (MHz)								
				6313.34	633332	635332		
40	QPSK	1	1	15.12	15.44	15.35	16.0	0.0
Channel								
Frequency (MHz)								
				6310.00	633332	635668		
30	QPSK	1	1	15.23	15.46	15.35	16.0	0.0
Channel								
Frequency (MHz)								
				6306.68	633332	636000		
20	QPSK	1	1	15.20	15.50	15.35	16.0	0.0

Part27Q n77 PC2 Ant 1 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
						3499.98		
100	PI2 BPSK	1	1			18.46		
100	PI2 BPSK	1	137			18.34	19.0	0.0
100	PI2 BPSK	1	271			18.26		
100	PI2 BPSK	135	0			18.44	19.0	0.0
100	PI2 BPSK	135	69			18.37	19.0	0.0
100	PI2 BPSK	135	138			18.30	19.0	0.0
100	PI2 BPSK	270	0			18.43		
100	QPSK	1	1			18.50		
100	QPSK	1	137			18.34	19.0	0.0
100	QPSK	1	271			18.39		
100	QPSK	135	0			18.38	19.0	0.0
100	QPSK	135	69			18.47	19.0	0.0
100	QPSK	135	138			18.38	19.0	0.0
100	QPSK	270	0			18.42		
100	16QAM	1	1			18.25	19.0	0.0
100	16QAM	1	1			18.28	19.0	0.0
100	256QAM	1	1			18.12	19.0	0.0
Channel								
Frequency (MHz)								
				6330.00	633332	633668		
90	QPSK	1	1	18.26	18.46	18.23	19.0	0.0
Channel								
Frequency (MHz)								
				6326.68	633332	634000		
80	QPSK	1	1	18.13	18.36	18.35	19.0	0.0
Channel								
Frequency (MHz)								
				6323.34	633332	634332		
70	QPSK	1	1	18.16	18.44	18.29	19.0	0.0
Channel								
Frequency (MHz)								
				6320.00	633332	634668		
60	QPSK	1	1	18.22	18.38	18.21	19.0	0.0
Channel								
Frequency (MHz)								
				6316.68	633332	635000		
50	QPSK	1	1	18.19	18.44	18.23	19.0	0.0
Channel								
Frequency (MHz)								
				6313.34	633332	635332		
40	QPSK	1	1	18.15	18.36	18.21	19.0	0.0
Channel								
Frequency (MHz)								
				6310.00	633332	635668		
30	QPSK	1	1	18.25	18.45	18.27	19.0	0.0
Channel								
Frequency (MHz)								
				6306.68	633332	636000		
20	QPSK	1	1	18.27	18.40	18.33	19.0	0.0



Part270 n78 Ant 1 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1	3750	3750	3750			
100	Pi/2 BPSK	1	137		14.39				
100	Pi/2 BPSK	1	271		14.43		16.0	0.0	
100	Pi/2 BPSK	135	0		14.30		16.0	0.0	
100	Pi/2 BPSK	135	69		14.42		16.0	0.0	
100	Pi/2 BPSK	135	138		14.43		16.0	0.0	
100	Pi/2 BPSK	270	0		14.49		16.0	0.0	
100	QPSK	1	1		14.65		16.0	0.0	
100	QPSK	1	137		14.42		16.0	0.0	
100	QPSK	1	271		14.60		16.0	0.0	
100	QPSK	135	0		14.41		16.0	0.0	
100	QPSK	135	69		14.45		16.0	0.0	
100	QPSK	135	138		14.21		16.0	0.0	
100	QPSK	270	0		14.34		16.0	0.0	
100	16QAM	1	1		14.34		16.0	0.0	
100	64QAM	1	1		14.33		16.0	0.0	
100	256QAM	1	1		14.14		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034			
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.20	14.42	14.19	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64968	65000	65134			
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.25	14.45	14.20	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168			
Channel									
Frequency (MHz)									
40	QPSK	1	1	3745.01	3750	3755.02			
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.31	14.52	14.34	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64768	65000	65234			
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.20	14.43	14.20	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65268			
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.02			
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.40	14.47	14.25	16.0	0.0	

Part270 n78 Ant 1 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1		15.38				
100	Pi/2 BPSK	1	137		15.44		16.0	0.0	
100	Pi/2 BPSK	1	271		15.36		16.0	0.0	
100	Pi/2 BPSK	135	0		15.44		16.0	0.0	
100	Pi/2 BPSK	135	69		15.32		16.0	0.0	
100	Pi/2 BPSK	135	138		15.37		16.0	0.0	
100	Pi/2 BPSK	270	0		15.37		16.0	0.0	
100	QPSK	1	1		15.54		16.0	0.0	
100	QPSK	1	137		15.36		16.0	0.0	
100	QPSK	1	271		15.42		16.0	0.0	
100	QPSK	135	0		15.31		16.0	0.0	
100	QPSK	135	69		15.41		16.0	0.0	
100	QPSK	135	138		15.31		16.0	0.0	
100	QPSK	270	0		15.38		16.0	0.0	
100	16QAM	1	1		15.27		16.0	0.0	
100	64QAM	1	1		15.26		16.0	0.0	
100	256QAM	1	1		15.03		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63900	63334	63668			
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.22	15.52	15.20	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63668	63334	63400			
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.24	15.43	15.22	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500			
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3500.01	3525			
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.30	15.44	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63100	63334	63568			
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.26	15.49	15.14	16.0	0.0	

Part270 n78 Ant 1 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi/2 BPSK	1	1		16.83				
100	Pi/2 BPSK	1	137		16.83		19.0	0.0	
100	Pi/2 BPSK	1	271		16.82		19.0	0.0	
100	Pi/2 BPSK	135	0		16.84		19.0	0.0	
100	Pi/2 BPSK	135	69		16.46		19.0	0.0	
100	Pi/2 BPSK	135	138		16.59		19.0	0.0	
100	Pi/2 BPSK	270	0		16.64		19.0	0.0	
100	QPSK	1	1		16.74		19.0	0.0	
100	QPSK	1	137		16.80		19.0	0.0	
100	QPSK	1	271		16.83		19.0	0.0	
100	QPSK	135	0		16.44		19.0	0.0	
100	QPSK	135	69		16.83		19.0	0.0	
100	QPSK	135	138		16.52		19.0	0.0	
100	QPSK	270	0		16.57		19.0	0.0	
100	16QAM	1	1		16.48		19.0	0.0	
100	64QAM	1	1		16.43		19.0	0.0	
100	256QAM	1	1		16.18		19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63060	63334	63668			
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.24	18.57	18.19	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	63668	63334	63400			
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.31	18.50	18.25	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	63168	63334	63500			
Channel									
Frequency (MHz)									
40	QPSK	1	1	3475.02	3500.01	3530.01			
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.29	18.57	18.25	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63100	63334	63568			
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.29	18.49	18.23	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	63068	63334	63600			
Channel									
Frequency (MHz)									
20	QPSK	1	1	3480.02	3500.01	3540			
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.29	18.53	18.18	19.0	0.0	



n41 Ant 2 DSI7

BW (MHz)	Modulation	RB 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	16.70	16.73	16.82		
100	PI2 BPSK	1	137	16.69	16.75	16.50		0.0
100	PI2 BPSK	1	271	16.52	16.61	16.62	18.0	0.0
100	PI2 BPSK	135	0	16.70	16.61	16.72	18.0	0.0
100	PI2 BPSK	135	69	16.75	16.72	16.56	18.0	0.0
100	PI2 BPSK	135	138	16.57	16.61	16.63	18.0	0.0
100	PI2 BPSK	270	0	16.53	16.61	16.66		
100	QPSK	1	1	16.61	16.65	16.65		
100	QPSK	1	137	16.82	16.76	16.72	18.0	0.0
100	QPSK	1	271	16.69	16.74	16.75		
100	QPSK	135	0	16.76	16.72	16.66	18.0	0.0
100	QPSK	135	69	16.54	16.79	16.61	18.0	0.0
100	QPSK	135	138	16.55	16.61	16.57	18.0	0.0
100	QPSK	270	0	16.58	16.66	16.64		
100	16QAM	1	1	16.57	16.57	16.38	18.0	0.0
100	64QAM	1	1	16.65	16.72	16.47	18.0	0.0
100	256QAM	1	1	16.44	16.43	16.25	18.0	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	16.55	16.80	16.58	18.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	2533.02	2592.99	2649.99		
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	2531.01	2592.99	2655		
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	16.58	16.74	16.59	18.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	2521.02	2592.99	2664.99		
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.71	16.72	16.61	18.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	2511	2592.99	2674.98		
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	16.57	16.72	16.57	18.0	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	16.60	16.73	16.51	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.68	19.87	19.93		
100	PI2 BPSK	1	137	19.70	19.79	19.60	21.0	0.0
100	PI2 BPSK	1	271	19.46	19.58	19.53	21.0	0.0
100	PI2 BPSK	135	0	19.68	19.66	19.65	21.0	0.0
100	PI2 BPSK	135	69	19.69	19.94	19.66	21.0	0.0
100	PI2 BPSK	135	138	19.69	19.80	19.74	21.0	0.0
100	PI2 BPSK	270	0	19.49	19.88	19.67		
100	QPSK	1	1	19.73	19.96	19.76		
100	QPSK	1	137	19.63	19.69	19.64	21.0	0.0
100	QPSK	1	271	19.72	19.83	19.74		
100	QPSK	135	0	19.72	19.87	19.77	21.0	0.0
100	QPSK	135	69	19.66	19.91	19.76	21.0	0.0
100	QPSK	135	138	19.67	19.74	19.62	21.0	0.0
100	QPSK	270	0	19.73	19.78	19.69		
100	16QAM	1	1	19.58	19.62	19.50	21.0	0.0
100	64QAM	1	1	19.58	19.76	19.54	21.0	0.0
100	256QAM	1	1	19.38	19.52	19.32	21.0	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.70	19.90	19.56	21.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	19.70	19.90	19.59	21.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	19.63	19.86	19.88	21.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	19.66	19.92	19.70	21.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	19.68	19.91	19.65	21.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.66	19.85	19.60	21.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	19.57	19.84	19.70	21.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	19.68	19.86	19.70	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	11.99	12.31	12.09		
100	PI2 BPSK	1	137	12.01	12.16	11.88	13.0	0.0
100	PI2 BPSK	1	271	11.85	11.85	11.97		
100	PI2 BPSK	135	0	12.06	12.06	11.99	13.0	0.0
100	PI2 BPSK	135	69	12.02	12.08	11.85	13.0	0.0
100	PI2 BPSK	135	138	11.95	12.24	12.06	13.0	0.0
100	PI2 BPSK	270	0	12.07	12.29	11.98		
100	QPSK	1	1	12.25	12.33	12.21		
100	QPSK	1	137	12.01	12.10	12.04	13.0	0.0
100	QPSK	1	271	12.08	12.25	11.96		
100	QPSK	135	0	12.10	12.15	12.00	13.0	0.0
100	QPSK	135	69	11.88	12.23	12.00	13.0	0.0
100	QPSK	135	138	12.05	12.10	12.04	13.0	0.0
100	QPSK	270	0	11.93	12.13	11.88		
100	16QAM	1	1	11.94	11.96	11.81	13.0	0.0
100	64QAM	1	1	11.97	12.05	11.85	13.0	0.0
100	256QAM	1	1	11.73	11.88	11.57	13.0	0.0
Channel								
Frequency (MHz)				649698	656000	662334		
90	QPSK	1	1	12.18	12.12	12.09	13.0	0.0
Channel								
Frequency (MHz)				649334	656000	662698		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735.02	3840	3940.01		
70	QPSK	1	1	12.18	12.21	11.96	13.0	0.0
Channel								
Frequency (MHz)				648698	656000	663334		
60	QPSK	1	1	12.17	12.14	12.02	13.0	0.0
Channel								
Frequency (MHz)				648334	656000	663698		
50	QPSK	1	1	3720	3840	3955.02		
Channel								
Frequency (MHz)				3715.01	3840	3960.01		
40	QPSK	1	1	12.13	12.20	11.97	13.0	0.0
Channel								
Frequency (MHz)				647698	656000	664334		
30	QPSK	1	1	3710.02	3840	3955.01		
Channel								
Frequency (MHz)				647334	656000	664698		
20	QPSK	1	1	12.07	12.18	12.03	13.0	0.0



Part270 n77 PC2 Ant 2 DSI7									
BW (MHz)	Modulation	RB 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	14.87	15.13	15.13			
100	PI2 BPSK	1	137	14.94	15.13	14.88	16.0	0.0	
100	PI2 BPSK	1	271	14.74	14.81	15.01			
100	PI2 BPSK	135	0	15.03	15.03	15.06	16.0	0.0	
100	PI2 BPSK	135	69	14.98	14.97	14.85	16.0	0.0	
100	PI2 BPSK	135	138	14.97	15.18	14.98	16.0	0.0	
100	PI2 BPSK	270	0	14.89	15.22	14.88			
100	QPSK	1	1	15.17	15.28	15.08			
100	QPSK	1	137	14.93	15.08	15.06	16.0	0.0	
100	QPSK	1	271	15.00	15.08	14.86			
100	QPSK	135	0	15.02	15.05	14.99	16.0	0.0	
100	QPSK	135	69	14.91	15.14	14.92	16.0	0.0	
100	QPSK	135	138	15.04	15.08	15.13			
100	QPSK	270	0	14.87	15.09	14.91	16.0	0.0	
100	16QAM	1	1	14.98	14.88	14.72	16.0	0.0	
100	64QAM	1	1	14.85	15.03	14.67	16.0	0.0	
100	256QAM	1	1	14.74	14.85	14.70	16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.20	15.09	14.99	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.13	15.06	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.19	15.11	15.04	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.18	15.14	15.09	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.22	15.10	14.99	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.09	15.05	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.19	15.16	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.15	15.07	15.06	16.0	0.0	

Part27Q n77 Ant 2 DSI7									
BW (MHz)	Modulation	RB 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		12.38				
100	PI2 BPSK	1	137		12.24		13.0	0.0	
100	PI2 BPSK	1	271		12.18				
100	PI2 BPSK	135	0		12.23		13.0	0.0	
100	PI2 BPSK	135	69		12.41		13.0	0.0	
100	PI2 BPSK	135	138		12.36		13.0	0.0	
100	PI2 BPSK	270	0		12.41				
100	QPSK	1	1		12.43				
100	QPSK	1	137		12.41		13.0	0.0	
100	QPSK	1	271		12.30				
100	QPSK	135	0		12.22		13.0	0.0	
100	QPSK	135	69		12.39		13.0	0.0	
100	QPSK	135	138		12.21		13.0	0.0	
100	QPSK	270	0		12.33				
100	16QAM	1	1		12.02		13.0	0.0	
100	64QAM	1	1		12.22		13.0	0.0	
100	256QAM	1	1		11.87		13.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.10	12.33	12.03	13.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.07	12.28	11.94	13.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.98	12.22	11.99	13.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.07	12.26	11.95	13.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.06	12.27	12.02	13.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.06	12.27	11.95	13.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.08	12.31	12.00	13.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.07	12.27	12.05	13.0	0.0	

Part27Q n77 PC2 Ant 2 DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		15.34				
100	PI2 BPSK	1	137		15.23		16.0	0.0	
100	PI2 BPSK	1	271		15.20				
100	PI2 BPSK	135	0		15.10		16.0	0.0	
100	PI2 BPSK	135	69		15.33		16.0	0.0	
100	PI2 BPSK	135	138		15.24		16.0	0.0	
100	PI2 BPSK	270	0		15.31				
100	QPSK	1	1		16.41				
100	QPSK	1	137		15.25		16.0	0.0	
100	QPSK	1	271		15.28				
100	QPSK	135	0		15.23		16.0	0.0	
100	QPSK	135	69		15.24		16.0	0.0	
100	QPSK	135	138		15.16		16.0	0.0	
100	QPSK	270	0		15.19				
100	16QAM	1	1		14.99		16.0	0.0	
100	64QAM	1	1		15.22		16.0	0.0	
100	256QAM	1	1		14.92		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.91	15.28	14.85	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.91	15.29	14.94	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.94	15.19	14.94	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.99	15.28	14.94	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.92	15.16	14.87	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.90	15.22	14.81	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.99	15.15	14.89	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.88	15.14	14.96	16.0	0.0	



Part270 n78 Ant 2 DS17								
BW (MHz)	Modulation	RB 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	Pi/2 BPSK	1	1	12.71	12.71	12.71		
100	Pi/2 BPSK	1	137	12.58			14.0	0.0
100	Pi/2 BPSK	1	271	12.32				
100	Pi/2 BPSK	135	0	12.46			14.0	0.0
100	Pi/2 BPSK	135	69	12.55			14.0	0.0
100	Pi/2 BPSK	135	138	12.59			14.0	0.0
100	Pi/2 BPSK	270	0	12.52				
100	QPSK	1	1	12.72				
100	QPSK	1	137	12.71			14.0	0.0
100	QPSK	1	271	12.62				
100	QPSK	135	0	12.48			14.0	0.0
100	QPSK	135	69	12.54			14.0	0.0
100	QPSK	135	138	12.60			14.0	0.0
100	QPSK	270	0	12.55				
100	16QAM	1	1	12.27			14.0	0.0
100	64QAM	1	1	12.82			14.0	0.0
100	256QAM	1	1	12.43			14.0	0.0
Channel								
Frequency (MHz)				64968	65000	65034		
90	QPSK	1	1	12.44	12.53	12.41	14.0	0.0
Channel								
Frequency (MHz)				64934	65000	65068		
90	QPSK	1	1	12.43	12.47	12.52	14.0	0.0
Channel								
Frequency (MHz)				64900	65000	65100		
70	QPSK	1	1	12.34	12.51	12.40	14.0	0.0
Channel								
Frequency (MHz)				64868	65000	65134		
70	QPSK	1	1	12.32	12.59	12.41	14.0	0.0
Channel								
Frequency (MHz)				64834	65000	65168		
60	QPSK	1	1	12.30	12.52	12.40	14.0	0.0
Channel								
Frequency (MHz)				64800	65000	65200		
50	QPSK	1	1	12.32	12.59	12.41	14.0	0.0
Channel								
Frequency (MHz)				64768	65000	65234		
40	QPSK	1	1	12.38	12.54	12.34	14.0	0.0
Channel								
Frequency (MHz)				64734	65000	65268		
30	QPSK	1	1	12.30	12.57	12.38	14.0	0.0
Channel								
Frequency (MHz)				64700	65000	65300		
20	QPSK	1	1	12.37	12.53	12.41	14.0	0.0

Part270 n78 Ant 2 DS17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	Pi/2 BPSK	1	1	12.53				
100	Pi/2 BPSK	1	137	12.51			14.0	0.0
100	Pi/2 BPSK	1	271	12.37				
100	Pi/2 BPSK	135	0	12.33			14.0	0.0
100	Pi/2 BPSK	135	69	12.40			14.0	0.0
100	Pi/2 BPSK	135	138	12.49			14.0	0.0
100	Pi/2 BPSK	270	0	12.63				
100	QPSK	1	1	12.55				
100	QPSK	1	137	12.53			14.0	0.0
100	QPSK	1	271	12.51				
100	QPSK	135	0	12.25			14.0	0.0
100	QPSK	135	69	12.63			14.0	0.0
100	QPSK	135	138	12.47			14.0	0.0
100	QPSK	270	0	12.55				
100	16QAM	1	1	12.25			14.0	0.0
100	64QAM	1	1	12.48			14.0	0.0
100	256QAM	1	1	12.16			14.0	0.0
Channel								
Frequency (MHz)				63300	63334	63368		
90	QPSK	1	1	12.29	12.61	12.31	14.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400		
90	QPSK	1	1	12.21	12.49	12.30	14.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434		
70	QPSK	1	1	12.18	12.49	12.31	14.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468		
70	QPSK	1	1	12.23	12.58	12.31	14.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500		
50	QPSK	1	1	12.22	12.62	12.31	14.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534		
40	QPSK	1	1	12.19	12.50	12.37	14.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568		
30	QPSK	1	1	12.24	12.50	12.34	14.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600		
20	QPSK	1	1	12.18	12.49	12.38	14.0	0.0

Part270 n78 Ant 2 DS17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	Pi/2 BPSK	1	1	15.80				
100	Pi/2 BPSK	1	137	15.70			17.0	0.0
100	Pi/2 BPSK	1	271	15.33				
100	Pi/2 BPSK	135	0	15.44			17.0	0.0
100	Pi/2 BPSK	135	69	15.66			17.0	0.0
100	Pi/2 BPSK	135	138	15.59			17.0	0.0
100	Pi/2 BPSK	270	0	15.68				
100	QPSK	1	1	15.76				
100	QPSK	1	137	15.62			17.0	0.0
100	QPSK	1	271	15.74				
100	QPSK	135	0	15.34			17.0	0.0
100	QPSK	135	69	15.64			17.0	0.0
100	QPSK	135	138	15.53			17.0	0.0
100	QPSK	270	0	15.58				
100	16QAM	1	1	15.36			17.0	0.0
100	64QAM	1	1	15.61			17.0	0.0
100	256QAM	1	1	15.24			17.0	0.0
Channel								
Frequency (MHz)				63300	63334	63368		
90	QPSK	1	1	15.33	15.71	15.60	17.0	0.0
Channel								
Frequency (MHz)				63268	63334	63400		
90	QPSK	1	1	15.29	15.74	15.47	17.0	0.0
Channel								
Frequency (MHz)				63234	63334	63434		
70	QPSK	1	1	15.35	15.76	15.50	17.0	0.0
Channel								
Frequency (MHz)				63200	63334	63468		
70	QPSK	1	1	15.38	15.72	15.47	17.0	0.0
Channel								
Frequency (MHz)				63168	63334	63500		
50	QPSK	1	1	15.30	15.76	15.60	17.0	0.0
Channel								
Frequency (MHz)				63134	63334	63534		
40	QPSK	1	1	15.28	15.71	15.47	17.0	0.0
Channel								
Frequency (MHz)				63100	63334	63568		
30	QPSK	1	1	15.29	15.70	15.59	17.0	0.0
Channel								
Frequency (MHz)				63068	63334	63600		
20	QPSK	1	1	15.33	15.73	15.59	17.0	0.0



n2 Ant 4 DS17 sig path: 164

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	12.79	12.87	12.88		
20	PI2 BPSK	1	53	12.85	12.79	12.70	14.0	0.0
20	PI2 BPSK	1	104	12.57	12.81	12.86		
20	PI2 BPSK	50	0	12.78	12.86	12.84	14.0	0.0
20	PI2 BPSK	50	28	12.77	12.79	12.64	14.0	0.0
20	PI2 BPSK	50	56	12.83	12.77	12.65	14.0	0.0
20	PI2 BPSK	100	0	12.84	12.87	12.72		
20	QPSK	1	1	12.84	12.86	12.78		
20	QPSK	1	53	12.85	12.72	12.88	14.0	0.0
20	QPSK	1	104	12.80	12.80	12.74		
20	QPSK	50	0	12.84	12.78	12.84	14.0	0.0
20	QPSK	50	28	12.57	12.87	12.75	14.0	0.0
20	QPSK	50	56	12.85	12.72	12.73	14.0	0.0
20	QPSK	100	0	12.87	12.52	12.75		
20	16QAM	1	1	12.57	12.61	12.61	14.0	0.0
20	16QAM	1	1	12.59	12.84	12.57	14.0	0.0
20	256QAM	1	1	12.77	12.59	12.68	14.0	0.0
Channel				371000	376000	380000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	12.68	12.82	12.77	14.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1890	1905		
10	QPSK	1	1	12.83	12.72	12.77	14.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	12.58	12.85	12.87	14.0	0.0

n2 Ant 4 DS17 sig path: 429

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	12.70	12.58	12.61		
20	PI2 BPSK	1	53	12.73	12.88	12.74	14.0	0.0
20	PI2 BPSK	1	104	12.73	12.80	12.74		
20	PI2 BPSK	50	0	12.73	12.73	12.64	14.0	0.0
20	PI2 BPSK	50	28	12.56	12.77	12.62	14.0	0.0
20	PI2 BPSK	50	56	12.76	12.54	12.53	14.0	0.0
20	PI2 BPSK	100	0	12.79	12.81	12.79		
20	QPSK	1	1	12.51	12.85	12.89		
20	QPSK	1	53	12.54	12.55	12.61	14.0	0.0
20	QPSK	1	104	12.63	12.61	12.60		
20	QPSK	50	0	12.59	12.64	12.54	14.0	0.0
20	QPSK	50	28	12.59	12.74	12.51	14.0	0.0
20	QPSK	50	56	12.52	12.62	12.58	14.0	0.0
20	QPSK	100	0	12.56	12.89	12.63		
20	16QAM	1	1	12.65	12.67	12.63	14.0	0.0
20	16QAM	1	1	12.63	12.59	12.65	14.0	0.0
20	256QAM	1	1	12.61	12.64	12.61	14.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	12.74	12.70	12.56	14.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1890	1905		
10	QPSK	1	1	12.72	12.69	12.67	14.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	12.74	12.68	12.54	14.0	0.0

n5 Ant 4 DS17 sig path: 168

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167000	167500		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	20.96	21.12	21.16		
20	PI2 BPSK	1	53	20.87	21.10	20.82	22.0	0.0
20	PI2 BPSK	1	104	20.86	20.95	20.78		
20	PI2 BPSK	50	0	20.91	20.97	20.99	22.0	0.0
20	PI2 BPSK	50	28	21.08	21.08	20.84	22.0	0.0
20	PI2 BPSK	50	56	20.90	21.19	20.96	22.0	0.0
20	PI2 BPSK	100	0	20.90	21.13	21.07		
20	QPSK	1	1	20.93	21.21	20.95		
20	QPSK	1	53	21.00	21.19	21.04	22.0	0.0
20	QPSK	1	104	20.94	21.17	21.05		
20	QPSK	50	0	21.13	20.92	21.01	22.0	0.0
20	QPSK	50	28	20.83	21.17	20.90	22.0	0.0
20	QPSK	50	56	20.97	21.00	20.95	22.0	0.0
20	QPSK	100	0	20.85	21.02	20.87		
20	16QAM	1	1	20.92	20.93	20.71	22.0	0.0
20	16QAM	1	1	20.51	20.56	20.51	21.5	0.5
20	256QAM	1	1	18.52	18.63	18.48	19.5	2.5
Channel				165300	167000	168500		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	20.93	21.13	20.89	22.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	833.5	844		
10	QPSK	1	1	20.88	21.13	20.92	22.0	0.0
Channel				165300	167000	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	20.85	21.19	20.89	22.0	0.0



n5 Ant 4 DSI7 sig path: 414

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16890	16700	16790		
20	PI2 BPSK	1	1	20.90	21.04	21.07		
20	PI2 BPSK	1	53	20.66	21.03	20.61	22.0	0.0
20	PI2 BPSK	1	104	20.66	20.76	20.64		
20	PI2 BPSK	50	0	20.71	20.80	20.82	22.0	0.0
20	PI2 BPSK	50	28	21.02	20.94	20.67		
20	PI2 BPSK	50	56	20.73	20.99	20.81	22.0	0.0
20	PI2 BPSK	100	0	20.71	20.98	20.94		
20	QPSK	1	1	20.78	21.16	20.83		
20	QPSK	1	53	20.84	21.02	20.85	22.0	0.0
20	QPSK	1	104	20.86	20.98	20.99		
20	QPSK	50	0	21.02	20.72	20.85	22.0	0.0
20	QPSK	50	28	20.89	21.12	20.76	22.0	0.0
20	QPSK	50	56	20.70	20.78	20.85	22.0	0.0
20	QPSK	100	0	20.73	20.81	20.70		
20	16QAM	1	1	20.77	20.77	20.52	22.0	0.0
20	64QAM	1	1	20.30	20.43	20.35	21.5	0.5
20	256QAM	1	1	18.35	18.56	18.33	19.5	2.5
Channel								
Frequency (MHz)				16830	16730	16830		
15	QPSK	1	1	20.68	21.06	20.75	22.0	0.0
Channel								
Frequency (MHz)				16580	16730	16880		
10	QPSK	1	1	20.41	21.05	20.88	22.0	0.0
Channel								
Frequency (MHz)				16530	16730	16930		
5	QPSK	1	1	20.67	20.98	20.66	22.0	0.0

n12 Ant 4 DSI7 sig path: 172

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				14130	14150	14170		
15	PI2 BPSK	1	1	23.16	23.22	23.11		
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0
15	PI2 BPSK	1	77	23.01	23.11	22.99		
15	PI2 BPSK	36	0	22.64	22.75	22.66	23.5	0.5
15	PI2 BPSK	36	22	23.11	23.17	23.07	24.0	0.0
15	PI2 BPSK	36	43	22.56	22.69	22.61	23.5	0.5
15	PI2 BPSK	75	0	22.85	22.77	22.67		
15	QPSK	1	1	23.19	23.23	23.15		
15	QPSK	1	40	23.07	23.18	23.09	24.0	0.0
15	QPSK	1	77	22.98	23.08	23.00		
15	QPSK	36	0	22.23	22.29	22.17	23.0	1.0
15	QPSK	36	22	23.07	23.15	23.00	24.0	0.0
15	QPSK	36	43	22.98	22.16	22.09	23.0	1.0
15	QPSK	75	0	22.15	22.23	22.11		
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0
15	64QAM	1	1	20.45	20.53	20.39	21.5	2.5
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5
Channel								
Frequency (MHz)				14080	14150	14200		
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0
Channel								
Frequency (MHz)				14030	14150	14270		
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0

n12 Ant 4 DSI7 sig path: 417

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				14130	14150	14170		
15	PI2 BPSK	1	1	22.93	23.02	22.93		
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0
15	PI2 BPSK	1	77	22.91	22.95	22.89		
15	PI2 BPSK	36	0	22.49	22.83	22.44	23.5	0.5
15	PI2 BPSK	36	22	22.99	22.95	22.89	24.0	0.0
15	PI2 BPSK	36	43	22.42	22.55	22.42	23.5	0.5
15	PI2 BPSK	75	0	22.51	22.58	22.57		
15	QPSK	1	1	23.00	23.06	22.99		
15	QPSK	1	40	22.97	22.98	22.81	24.0	0.0
15	QPSK	1	77	22.88	23.02	22.88		
15	QPSK	36	0	22.05	22.11	22.05	23.0	1.0
15	QPSK	36	22	22.75	22.89	22.78	24.0	0.0
15	QPSK	36	43	21.86	22.01	21.82	23.0	1.0
15	QPSK	75	0	21.89	22.05	21.94		
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0
15	64QAM	1	1	20.32	20.48	20.32	21.5	2.5
15	256QAM	1	1	18.94	19.09	19.07	19.5	4.5
Channel								
Frequency (MHz)				14080	14150	14200		
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0
Channel								
Frequency (MHz)				14030	14150	14270		
5	QPSK	1	1	22.84	22.98	22.84	24.0	0.0



n14 Ant 4 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158500	159000	159500		
Frequency (MHz)				793				
10	PI2 BPSK	1	1	22.60				
10	PI2 BPSK	1	25	22.26			24.0	0.0
10	PI2 BPSK	1	50	22.51				
10	PI2 BPSK	25	0	22.19			23.5	0.5
10	PI2 BPSK	25	14	22.81			24.0	0.0
10	PI2 BPSK	25	27	22.17			23.5	0.5
10	PI2 BPSK	50	0	22.22				
10	QPSK	1	1	22.83				
10	QPSK	1	26	22.58			24.0	0.0
10	QPSK	1	50	22.49				
10	QPSK	25	0	21.76			23.0	1.0
10	QPSK	25	14	22.45			24.0	0.0
10	QPSK	25	27	21.86			23.0	1.0
10	QPSK	50	0	21.71				
10	16QAM	1	1	21.80			23.0	1.0
10	16QAM	1	1	19.91			21.5	2.5
10	256QAM	1	1	18.23			19.5	4.5
Channel				158100	159100	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.48	22.52	22.41	24.0	0.0

n25 Ant 4 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374500	375500	376500		
Frequency (MHz)				1870	1882.5	1895		
40	PI2 BPSK	1	1	13.00	13.00	13.05		
40	PI2 BPSK	1	108	12.96	13.13	13.03		0.0
40	PI2 BPSK	1	214	13.03	12.98	12.89		
40	PI2 BPSK	108	0	12.92	12.92	13.01	14.0	0.0
40	PI2 BPSK	108	54	13.00	13.03	12.89	14.0	0.0
40	PI2 BPSK	108	108	12.90	12.90	12.93	14.0	0.0
40	PI2 BPSK	216	0	12.97	13.18	12.97		
40	QPSK	1	1	13.17	13.18	13.03		
40	QPSK	1	108	13.00	13.02	12.90	14.0	0.0
40	QPSK	1	214	12.93	13.10	12.95		
40	QPSK	108	0	13.06	12.90	12.95	14.0	0.0
40	QPSK	108	54	12.99	13.12	12.96	14.0	0.0
40	QPSK	108	108	12.94	12.91	12.89		
40	QPSK	216	0	12.85	12.95	12.94	14.0	0.0
40	16QAM	1	1	13.06	13.00	12.96	14.0	0.0
40	16QAM	1	1	12.94	12.91	12.93	14.0	0.0
40	256QAM	1	1	13.08	12.95	12.93	14.0	0.0
Channel				373800	375000	380000		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	13.13	13.12	12.96	14.0	0.0
Channel				372500	376500	380500		
Frequency (MHz)				1852.5	1882.5	1902.5		
25	QPSK	1	1	13.15	13.10	13.03	14.0	0.0
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	13.18	13.14	13.05	14.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	13.14	13.07	13.00	14.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	13.12	13.10	13.01	14.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	13.01	13.08	13.01	14.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168500	169300	169900		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	21.04	21.18	21.32		
20	PI2 BPSK	1	53	20.92	21.16	20.91		0.0
20	PI2 BPSK	1	104	21.01	21.13	20.83	22.0	0.0
20	PI2 BPSK	50	0	20.94	21.12	21.09	22.0	0.0
20	PI2 BPSK	50	28	21.22	21.28	20.97	22.0	0.0
20	PI2 BPSK	50	56	20.95	21.34	21.06		
20	PI2 BPSK	100	0	20.96	21.25	21.12		
20	QPSK	1	1	21.00	21.36	21.02		
20	QPSK	1	53	21.11	21.30	21.21	22.0	0.0
20	QPSK	1	104	21.09	21.30	21.09		
20	QPSK	50	0	21.23	21.04	21.08	22.0	0.0
20	QPSK	50	28	20.86	21.30	21.03	22.0	0.0
20	QPSK	50	56	20.90	21.01	20.84		
20	QPSK	100	0	21.00	21.07	20.98	22.0	0.0
20	16QAM	1	1	21.04	20.96	20.89	22.0	0.0
20	16QAM	1	1	20.57	20.71	20.65	21.5	0.5
20	256QAM	1	1	18.55	18.76	18.57	19.5	2.5
Channel				168300	169300	169300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	20.94	21.18	20.96	22.0	0.0
Channel				168000	169300	168800		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	20.91	21.17	20.89	22.0	0.0
Channel				167300	169300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	20.90	21.30	20.86	22.0	0.0



n66 Ant 4 DS17 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	14.26	14.41	14.40			
40	PI2 BPSK	1	108	14.25	14.27	14.06	15.5	0.0	
40	PI2 BPSK	1	214	14.14	14.36	14.16			
40	PI2 BPSK	108	0	14.11	14.34	14.26	15.5	0.0	
40	PI2 BPSK	108	54	14.32	14.36	14.18	15.5	0.0	
40	PI2 BPSK	108	108	14.29	14.43	14.18	15.5	0.0	
40	PI2 BPSK	216	0	14.16	14.39	14.22			
40	QPSK	1	1	14.26	14.46	14.36			
40	QPSK	1	108	14.33	14.31	14.44	15.5	0.0	
40	QPSK	1	214	14.29	14.43	14.34			
40	QPSK	108	0	14.23	14.37	14.35	15.5	0.0	
40	QPSK	108	54	14.10	14.39	14.17	15.5	0.0	
40	QPSK	108	108	14.19	14.26	14.31	15.5	0.0	
40	QPSK	216	0	14.22	14.25	14.18			
40	16QAM	1	1	14.06	14.13	14.01	15.5	0.0	
40	16QAM	1	1	14.08	14.20	14.15	15.5	0.0	
40	256QAM	1	1	14.37	14.13	14.25	15.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	14.21	14.29	14.35	15.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	14.12	14.27	14.24	15.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	14.13	14.41	14.24	15.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	14.15	14.26	14.32	15.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	14.09	14.40	14.24	15.5	0.0	

n66 Ant 4 DS17 sig path: 432									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	14.31	14.26	14.29			
40	PI2 BPSK	1	108	14.26	14.10	13.94	15.5	0.0	
40	PI2 BPSK	1	214	14.07	14.15	13.97			
40	PI2 BPSK	108	0	14.05	14.16	14.17	15.5	0.0	
40	PI2 BPSK	108	54	14.25	14.27	14.00	15.5	0.0	
40	PI2 BPSK	108	108	14.17	14.30	14.02	15.5	0.0	
40	PI2 BPSK	216	0	14.21	14.29	14.04			
40	QPSK	1	1	14.03	14.41	14.19			
40	QPSK	1	108	14.14	14.02	14.27	15.5	0.0	
40	QPSK	1	214	14.08	14.24	14.22			
40	QPSK	108	0	13.98	14.13	14.33	15.5	0.0	
40	QPSK	108	54	14.04	14.35	14.17	15.5	0.0	
40	QPSK	108	108	14.15	14.08	14.14	15.5	0.0	
40	QPSK	216	0	14.13	14.20	14.11			
40	16QAM	1	1	13.95	14.09	13.83	15.5	0.0	
40	16QAM	1	1	14.03	14.21	13.96	15.5	0.0	
40	256QAM	1	1	14.36	13.94	14.11	15.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	13.93	14.25	14.05	15.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	13.96	14.26	14.17	15.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	14.01	14.31	14.16	15.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	13.95	14.33	14.06	15.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	14.02	14.27	14.05	15.5	0.0	

n70 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	349500			
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1			14.52			
15	PI2 BPSK	1	40			14.35	16.0	0.0	
15	PI2 BPSK	1	77			14.30			
15	PI2 BPSK	36	0			14.43	16.0	0.0	
15	PI2 BPSK	36	22			14.41	16.0	0.0	
15	PI2 BPSK	36	43			14.50	16.0	0.0	
15	PI2 BPSK	75	0			14.47			
15	QPSK	1	1			14.00			
15	QPSK	1	40			14.46	16.0	0.0	
15	QPSK	1	77			14.47			
15	QPSK	36	0			14.46	16.0	0.0	
15	QPSK	36	22			14.51	16.0	0.0	
15	QPSK	36	43			14.39	16.0	0.0	
15	QPSK	75	0			14.41			
15	16QAM	1	1			14.28	16.0	0.0	
15	16QAM	1	1			14.46	16.0	0.0	
15	256QAM	1	1			14.16	16.0	0.0	
Channel				345000	349500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	14.32	14.46	14.32	16.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	14.25	14.46	14.23	16.0	0.0	



n71 Ant 4 DS17

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				13600	13500	13700		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	22.87	22.88	22.92		
20	PI/2 BPSK	1	53	22.78	22.91	22.83	24.0	0.0
20	PI/2 BPSK	1	104	22.68	22.76	22.83		
20	PI/2 BPSK	50	0	22.48	22.57	22.46	23.5	0.5
20	PI/2 BPSK	50	28	22.86	22.95	22.89	24.0	0.0
20	PI/2 BPSK	50	56	22.34	22.45	22.39	23.5	0.5
20	PI/2 BPSK	100	0	22.42	22.57	22.47		
20	QPSK	1	1	22.91	23.05	22.97		
20	QPSK	1	53	22.80	22.92	22.86	24.0	0.0
20	QPSK	1	104	22.68	22.76	22.70		
20	QPSK	50	0	21.86	21.98	21.81	23.0	1.0
20	QPSK	50	28	22.92	22.67	22.90	24.0	0.0
20	QPSK	50	56	21.85	21.85	21.86	23.0	1.0
20	QPSK	100	0	22.00	22.07	22.01		
20	16QAM	1	1	22.31	22.37	22.23	23.0	1.0
20	16QAM	1	1	20.18	20.30	20.25	21.5	2.5
20	256QAM	1	1	18.66	18.73	18.65	19.5	4.5
Channel				13400	13300	13500		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.83	22.94	22.92	24.0	0.0
Channel				133600	136000	136600		
Frequency (MHz)				665	680.5	693		
10	QPSK	1	1	22.80	22.88	22.86	24.0	0.0
Channel				133100	135000	135000		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.78	22.91	22.86	24.0	0.0



n41 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pl2 BPSK	1	1	14.15	14.01	14.19			
100	Pl2 BPSK	1	137	13.94	14.00	13.90	15.0	0.0	
100	Pl2 BPSK	1	271	13.88	13.91	13.84			
100	Pl2 BPSK	135	0	13.92	14.04	13.95	15.0	0.0	
100	Pl2 BPSK	135	69	13.90	14.02	13.94	15.0	0.0	
100	Pl2 BPSK	135	138	13.88	14.15	13.97	15.0	0.0	
100	Pl2 BPSK	270	0	13.87	14.08	14.01			
100	QPSK	1	1	14.00	14.20	14.07			
100	QPSK	1	137	13.90	14.01	14.13	15.0	0.0	
100	QPSK	1	271	14.03	14.12	14.01			
100	QPSK	135	0	14.08	14.10	13.97	15.0	0.0	
100	QPSK	135	69	13.85	14.15	13.91	15.0	0.0	
100	QPSK	135	138	14.06	13.93	13.96	15.0	0.0	
100	QPSK	270	0	13.87	14.07	13.91			
100	16QAM	1	1	13.76	14.00	13.84	15.0	0.0	
100	16QAM	1	1	13.87	14.02	13.89	15.0	0.0	
100	256QAM	1	1	13.85	13.91	13.87	15.0	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	13.93	14.01	13.98	15.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.97			
80	QPSK	1	1	13.90	14.13	14.01	15.0	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	13.99	14.05	13.96	15.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2639.98			
60	QPSK	1	1	14.07	14.08	14.00	15.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.00	14.08	14.09	15.0	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	13.93	14.11	14.03	15.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	13.91	14.03	14.00	15.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	13.92	14.05	14.01	15.0	0.0	

n41 PC2 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pl2 BPSK	1	1	16.96	16.94	17.02			
100	Pl2 BPSK	1	137	16.80	16.82	16.72	18.0	0.0	
100	Pl2 BPSK	1	271	16.58	16.85	16.88			
100	Pl2 BPSK	135	0	16.71	16.74	16.84	18.0	0.0	
100	Pl2 BPSK	135	69	16.76	16.93	16.81	18.0	0.0	
100	Pl2 BPSK	135	138	16.73	16.88	16.85	18.0	0.0	
100	Pl2 BPSK	270	0	16.77	16.76	16.77			
100	QPSK	1	1	16.87	17.04	16.95			
100	QPSK	1	137	16.75	16.79	16.84	18.0	0.0	
100	QPSK	1	271	16.89	16.95	16.85			
100	QPSK	135	0	16.76	17.00	16.80	18.0	0.0	
100	QPSK	135	69	16.56	17.02	16.81	18.0	0.0	
100	QPSK	135	138	16.93	16.85	16.83	18.0	0.0	
100	QPSK	270	0	16.70	16.89	16.82			
100	16QAM	1	1	16.58	16.70	16.84	18.0	0.0	
100	16QAM	1	1	16.60	16.76	16.67	18.0	0.0	
100	256QAM	1	1	16.69	16.71	16.54	18.0	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.74	16.95	16.90	18.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.97			
80	QPSK	1	1	16.70	16.91	16.78	18.0	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	16.81	16.92	16.88	18.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2639.98			
60	QPSK	1	1	16.84	16.92	16.84	18.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.82	16.89	16.87	18.0	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.83	16.99	16.90	18.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	16.85	16.89	16.77	18.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.84	16.91	16.88	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)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	14.27	14.31	14.39		
40	PI2 BPSK	1	53	14.27	14.34	14.03	15.5	0.0
40	PI2 BPSK	1	104	14.07	14.25	14.11		
40	PI2 BPSK	50	0	14.10	14.22	14.25	15.5	0.0
40	PI2 BPSK	50	28	14.06	14.41	14.05	15.5	0.0
40	PI2 BPSK	50	56	14.07	14.33	14.26	15.5	0.0
40	PI2 BPSK	100	0	14.23	14.41	14.28		
40	QPSK	1	1	14.07	14.45	14.31		
40	QPSK	1	53	14.11	14.28	14.23	15.5	0.0
40	QPSK	1	104	14.23	14.37	14.28		
40	QPSK	50	0	14.23	14.23	14.30	15.5	0.0
40	QPSK	50	28	14.10	14.35	14.06	15.5	0.0
40	QPSK	50	56	14.10	14.13	14.09	15.5	0.0
40	QPSK	100	0	14.14	14.19	14.18		
40	16QAM	1	1	14.12	14.20	13.96	15.5	0.0
40	16QAM	1	1	14.10	14.15	14.04	15.5	0.0
40	256QAM	1	1	14.17	13.89	14.19	15.5	0.0
Channel								
Frequency (MHz)				6370.98	6419.63	6459.66	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.00	14.41	14.15	15.5	0.0
Channel								
Frequency (MHz)				6373.34	6419.66	6460.00	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	13.93	14.43	14.27	15.5	0.0
Channel								
Frequency (MHz)				6370.00	6419.66	6453.32	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.03	14.41	14.22	15.5	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	3840	3930		
100	PI2 BPSK	1	1	13.45	13.52	13.56		
100	PI2 BPSK	1	137	13.43	13.49	13.29	14.5	0.0
100	PI2 BPSK	1	271	13.13	13.33	13.35		
100	PI2 BPSK	135	0	13.45	13.37	13.41	14.5	0.0
100	PI2 BPSK	135	69	13.45	13.57	13.45	14.5	0.0
100	PI2 BPSK	135	138	13.23	13.39	13.36	14.5	0.0
100	PI2 BPSK	270	0	13.45	13.41	13.33		
100	QPSK	1	1	13.44	13.61	13.39		
100	QPSK	1	137	13.37	13.33	13.47	14.5	0.0
100	QPSK	1	271	13.37	13.59	13.49		
100	QPSK	135	0	13.33	13.28	13.48	14.5	0.0
100	QPSK	135	69	13.28	13.55	13.27	14.5	0.0
100	QPSK	135	138	13.27	13.21	13.25	14.5	0.0
100	QPSK	270	0	13.32	13.37	13.31		
100	16QAM	1	1	13.24	13.26	13.24	14.5	0.0
100	16QAM	1	1	13.38	13.43	13.09	14.5	0.0
100	256QAM	1	1	13.47	13.05	13.40	14.5	0.0
Channel								
Frequency (MHz)				6495.98	6550.00	6604.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	13.34	13.60	13.24	14.5	0.0
Channel								
Frequency (MHz)				6493.34	6550.00	6626.68	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	13.29	13.52	13.24	14.5	0.0
Channel								
Frequency (MHz)				6490.00	6550.00	6630.00	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	13.38	13.59	13.27	14.5	0.0
Channel								
Frequency (MHz)				6486.68	6550.00	6633.34	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	13.33	13.59	13.19	14.5	0.0
Channel								
Frequency (MHz)				6483.34	6550.00	6636.68	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	13.33	13.51	13.23	14.5	0.0
Channel								
Frequency (MHz)				6480.00	6550.00	6640.00	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	13.33	13.56	13.30	14.5	0.0
Channel								
Frequency (MHz)				6476.68	6550.00	6643.34	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	13.31	13.59	13.27	14.5	0.0
Channel								
Frequency (MHz)				6473.34	6550.00	6646.68	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	13.31	13.58	13.20	14.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.42	16.48	16.52		
100	PI2 BPSK	1	137	16.42	16.47	16.34	17.5	0.0
100	PI2 BPSK	1	271	16.14	16.32	16.31		
100	PI2 BPSK	135	0	16.44	16.39	16.40	17.5	0.0
100	PI2 BPSK	135	69	16.45	16.60	16.47	17.5	0.0
100	PI2 BPSK	135	138	16.28	16.40	16.32	17.5	0.0
100	PI2 BPSK	270	0	16.39	16.46	16.33		
100	QPSK	1	1	16.41	16.61	16.37		
100	QPSK	1	137	16.34	16.35	16.46	17.5	0.0
100	QPSK	1	271	16.39	16.56	16.47		
100	QPSK	135	0	16.37	16.28	16.45	17.5	0.0
100	QPSK	135	69	16.27	16.51	16.25	17.5	0.0
100	QPSK	135	138	16.36	16.39	16.33	17.5	0.0
100	QPSK	270	0	16.32	16.43	16.39		
100	16QAM	1	1	16.25	16.28	16.20	17.5	0.0
100	16QAM	1	1	16.35	16.38	16.11	17.5	0.0
100	256QAM	1	1	16.49	16.11	16.43	17.5	0.0
Channel								
Frequency (MHz)				6495.98	6550.00	6604.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.34	16.55	16.25	17.5	0.0
Channel								
Frequency (MHz)				6493.34	6550.00	6626.68	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.27	16.59	16.27	17.5	0.0
Channel								
Frequency (MHz)				6490.00	6550.00	6630.00	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.31	16.53	16.32	17.5	0.0
Channel								
Frequency (MHz)				6486.68	6550.00	6633.34	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.28	16.52	16.23	17.5	0.0
Channel								
Frequency (MHz)				6483.34	6550.00	6636.68	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.34	16.49	16.29	17.5	0.0
Channel								
Frequency (MHz)				6480.00	6550.00	6640.00	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.35	16.51	16.32	17.5	0.0
Channel								
Frequency (MHz)				6476.68	6550.00	6643.34	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.29	16.54	16.25	17.5	0.0
Channel								
Frequency (MHz)				6473.34	6550.00	6646.68	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.27	16.50	16.30	17.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	12.97				
100	PI2 BPSK	1	137	13.00			14.5	0.0
100	PI2 BPSK	1	271	13.00				
100	PI2 BPSK	135	0	12.98			14.5	0.0
100	PI2 BPSK	135	69	13.03			14.5	0.0
100	PI2 BPSK	135	138	12.94			14.5	0.0
100	PI2 BPSK	270	0	12.97				
100	QPSK	1	1	13.08				
100	QPSK	1	137	12.90			14.5	0.0
100	QPSK	1	271	12.98				
100	QPSK	135	0	12.94			14.5	0.0
100	QPSK	135	69	13.08			14.5	0.0
100	QPSK	135	138	12.90			14.5	0.0
100	QPSK	270	0	12.98				
100	16QAM	1	1	12.86			14.5	0.0
100	16QAM	1	1	12.88			14.5	0.0
100	256QAM	1	1	12.88			14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.87	13.00	12.71	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.84	12.98	12.77	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.85	13.02	12.74	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.91	13.03	12.71	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.91	13.01	12.75	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.91	13.07	12.70	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.84	13.03	12.79	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.85	12.98	12.77	14.5	0.0

Part27Q n77 PC2 Ant 5 DS17

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.93				
100	PI2 BPSK	1	137	15.98			17.5	0.0
100	PI2 BPSK	1	271	15.91				
100	PI2 BPSK	135	0	16.06			17.5	0.0
100	PI2 BPSK	135	69	15.98			17.5	0.0
100	PI2 BPSK	135	138	15.84			17.5	0.0
100	PI2 BPSK	270	0	15.95				
100	QPSK	1	1	16.18				
100	QPSK	1	137	15.93			17.5	0.0
100	QPSK	1	271	16.01				
100	QPSK	135	0	15.99			17.5	0.0
100	QPSK	135	69	16.10			17.5	0.0
100	QPSK	135	138	15.88			17.5	0.0
100	QPSK	270	0	16.04				
100	16QAM	1	1	15.93			17.5	0.0
100	16QAM	1	1	15.94			17.5	0.0
100	256QAM	1	1	15.93			17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.75	16.02	15.74	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.75	15.95	15.77	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.88	15.94	15.75	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.80	15.96	15.81	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.85	16.01	15.74	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.75	15.97	15.75	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.70	15.99	15.76	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.75	15.91	15.77	17.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.60				
100	PI2 BPSK	1	137	13.58			14.5	0.0
100	PI2 BPSK	1	271	13.49				
100	PI2 BPSK	135	0	13.53			14.5	0.0
100	PI2 BPSK	135	69	13.60			14.5	0.0
100	PI2 BPSK	135	138	13.63			14.5	0.0
100	PI2 BPSK	270	0	13.61				
100	QPSK	1	1	13.70				
100	QPSK	1	137	13.55			14.5	0.0
100	QPSK	1	271	13.58				
100	QPSK	135	0	13.51			14.5	0.0
100	QPSK	135	69	13.58			14.5	0.0
100	QPSK	135	138	13.45			14.5	0.0
100	QPSK	270	0	13.54				
100	16QAM	1	1	13.31			14.5	0.0
100	16QAM	1	1	13.54			14.5	0.0
100	256QAM	1	1	13.25			14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.50	13.64	13.52	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.45	13.62	13.60	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.44	13.69	13.59	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.52	13.69	13.54	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.54	13.65	13.54	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.53	13.64	13.53	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.55	13.69	13.53	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.48	13.59	13.50	14.5	0.0



Part27Q n78 Ant 5 DSI7										
70	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel	Channel				633334			3500.01		
	Frequency (MHz)									
100	100	Pl/2 BPSK	1	1	13.52	13.52	13.52	14.5	0.0	
100	100	Pl/2 BPSK	1	137	13.52	13.52	13.52			
100	100	Pl/2 BPSK	1	271	13.42	13.42	13.42			
100	100	Pl/2 BPSK	135	0	13.55	13.55	13.55			
100	100	Pl/2 BPSK	135	69	13.55	13.55	13.55			
100	100	Pl/2 BPSK	135	138	13.55	13.55	13.55			
100	100	Pl/2 BPSK	270	0	13.60	13.60	13.60			
100	100	QPSK	1	1	13.69	13.69	13.69			
100	100	QPSK	1	137	13.58	13.58	13.58			
100	100	QPSK	1	271	13.59	13.59	13.59			
100	100	QPSK	135	0	13.50	13.50	13.50			
100	100	QPSK	135	69	13.53	13.53	13.53			
100	100	QPSK	135	138	13.42	13.42	13.42			
100	100	QPSK	270	0	13.47	13.47	13.47			
100	100	16QAM	1	1	13.34	13.34	13.34			
100	100	64QAM	1	1	13.37	13.37	13.37			
100	100	256QAM	1	1	13.14	13.14	13.14			
Channel	Channel				633090			3495	3500.01	3505.02
Frequency (MHz)										
90	90	QPSK	1	1	13.29	13.58	13.31	14.5	0.0	
Channel	Channel				632668			3490.02	3500.01	3510
Frequency (MHz)										
80	80	QPSK	1	1	13.31	13.59	13.35	14.5	0.0	
Channel	Channel				632334			3485.01	3500.01	3515.01
Frequency (MHz)										
70	70	QPSK	1	1	13.34	13.57	13.34	14.5	0.0	
Channel	Channel				632000			3480	3500.01	3520.02
Frequency (MHz)										
60	60	QPSK	1	1	13.27	13.87	13.37	14.5	0.0	
Channel	Channel				631688			3475.02	3500.01	3525
Frequency (MHz)										
50	50	QPSK	1	1	13.25	13.62	13.32	14.5	0.0	
Channel	Channel				631334			3470.01	3500.01	3530.01
Frequency (MHz)										
40	40	QPSK	1	1	13.30	13.87	13.32	14.5	0.0	
Channel	Channel				631000			3465	3500.01	3535.02
Frequency (MHz)										
30	30	QPSK	1	1	13.24	13.81	13.35	14.5	0.0	
Channel	Channel				630968			3460.02	3500.01	3540
Frequency (MHz)										
20	20	QPSK	1	1	13.30	13.83	13.37	14.5	0.0	

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	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel	Channel				633334			3500.01		
	Frequency (MHz)									
100	100	Pl/2 BPSK	1	1	13.52	13.52	13.52	17.5	0.0	
100	100	Pl/2 BPSK	1	137	13.52	13.52	13.52			
100	100	Pl/2 BPSK	1	271	13.42	13.42	13.42			
100	100	Pl/2 BPSK	135	0	13.55	13.55	13.55			
100	100	Pl/2 BPSK	135	69	13.55	13.55	13.55			
100	100	Pl/2 BPSK	135	138	13.55	13.55	13.55			
100	100	Pl/2 BPSK	270	0	13.60	13.60	13.60			
100	100	QPSK	1	1	13.69	13.69	13.69			
100	100	QPSK	1	137	13.58	13.58	13.58			
100	100	QPSK	1	271	13.59	13.59	13.59			
100	100	QPSK	135	0	13.50	13.50	13.50			
100	100	QPSK	135	69	13.53	13.53	13.53			
100	100	QPSK	135	138	13.42	13.42	13.42			
100	100	QPSK	270	0	13.47	13.47	13.47			
100	100	16QAM	1	1	13.34	13.34	13.34			
100	100	64QAM	1	1	13.37	13.37	13.37			
100	100	256QAM	1	1	13.14	13.14	13.14			
Channel	Channel				633090			3495	3500.01	3505.02
Frequency (MHz)										
90	90	QPSK	1	1	16.21	16.54	16.37	17.5	0.0	
Channel	Channel				632668			3490.02	3500.01	3510
Frequency (MHz)										
80	80	QPSK	1	1	16.27	16.63	16.32	17.5	0.0	
Channel	Channel				632334			3485.01	3500.01	3515.01
Frequency (MHz)										
70	70	QPSK	1	1	16.27	16.63	16.33	17.5	0.0	
Channel	Channel				632000			3480	3500.01	3520.02
Frequency (MHz)										
60	60	QPSK	1	1	16.17	16.55	16.31	17.5	0.0	
Channel	Channel				631688			3475.02	3500.01	3525
Frequency (MHz)										
50	50	QPSK	1	1	16.26	16.59	16.31	17.5	0.0	
Channel	Channel				631334			3470.01	3500.01	3530.01
Frequency (MHz)										
40	40	QPSK	1	1	16.16	16.59	16.30	17.5	0.0	
Channel	Channel				631000			3465	3500.01	3535.02
Frequency (MHz)										
30	30	QPSK	1	1	16.21	16.60	16.36	17.5	0.0	
Channel	Channel				630968			3460.02	3500.01	3540
Frequency (MHz)										
20	20	QPSK	1	1	16.26	16.53	16.33	17.5	0.0	



n41 Ant 7 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.48	15.47	15.52			
100	PI2 BPSK	1	137	15.38	15.42	15.20	17.0	0.0	
100	PI2 BPSK	1	271	15.24	15.35	15.25			
100	PI2 BPSK	135	0	15.39	15.48	15.46	17.0	0.0	
100	PI2 BPSK	135	69	15.48	15.51	15.33	17.0	0.0	
100	PI2 BPSK	135	138	15.26	15.48	15.31	17.0	0.0	
100	PI2 BPSK	270	0	15.35	15.43	15.40			
100	QPSK	1	1	15.42	15.59	15.48			
100	QPSK	1	137	15.44	15.44	15.42	17.0	0.0	
100	QPSK	1	271	15.38	15.57	15.38			
100	QPSK	135	0	15.40	15.38	15.40	17.0	0.0	
100	QPSK	135	69	15.35	15.55	15.30	17.0	0.0	
100	QPSK	135	138	15.36	15.41	15.32	17.0	0.0	
100	QPSK	270	0	15.41	15.48	15.40			
100	16QAM	1	1	15.22	15.27	15.13	17.0	0.0	
100	16QAM	1	1	15.32	15.39	15.14	17.0	0.0	
100	256QAM	1	1	15.54	15.16	15.36	17.0	0.0	
Channel				50800	51698	52898			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.31	15.48	15.45	17.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.23	15.43	15.43	17.0	0.0	
Channel				509202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	15.29	15.48	15.45	17.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	15.32	15.49	15.43	17.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.32	15.48	15.52	17.0	0.0	
Channel				503202	518598	533000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.38	15.51	15.51	17.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	15.31	15.43	15.49	17.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.28	15.50	15.50	17.0	0.0	

n41 PC2 Ant 7 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.41	18.51	18.57			
100	PI2 BPSK	1	137	18.32	18.23	18.20	20.0	0.0	
100	PI2 BPSK	1	271	18.22	18.44	18.36			
100	PI2 BPSK	135	0	18.36	18.39	18.41	20.0	0.0	
100	PI2 BPSK	135	69	18.39	18.46	18.29	20.0	0.0	
100	PI2 BPSK	135	138	18.21	18.43	18.33	20.0	0.0	
100	PI2 BPSK	270	0	18.27	18.37	18.34			
100	QPSK	1	1	18.44	18.61	18.36			
100	QPSK	1	137	18.24	18.40	18.38	20.0	0.0	
100	QPSK	1	271	18.26	18.48	18.26			
100	QPSK	135	0	18.35	18.32	18.42	20.0	0.0	
100	QPSK	135	69	18.33	18.47	18.31	20.0	0.0	
100	QPSK	135	138	18.20	18.30	18.23	20.0	0.0	
100	QPSK	270	0	18.26	18.33	18.32			
100	16QAM	1	1	18.18	18.22	18.03	20.0	0.0	
100	16QAM	1	1	18.27	18.38	18.07	20.0	0.0	
100	256QAM	1	1	18.50	18.12	18.37	20.0	0.0	
Channel				50800	51698	52898			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.22	18.51	18.23	20.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.20	18.54	18.25	20.0	0.0	
Channel				509202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.23	18.59	18.24	20.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	18.21	18.52	18.27	20.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.19	18.57	18.25	20.0	0.0	
Channel				503202	518598	533000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.28	18.54	18.24	20.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	18.19	18.51	18.28	20.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.24	18.59	18.24	20.0	0.0	



Part270 n77 Ant 8 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	1	12.20	12.21	12.31		
100	PI2 BPSK	1	137	12.01	12.06	11.97	13.5	0.0
100	PI2 BPSK	1	271	12.01	11.99	11.96		
100	PI2 BPSK	135	0	12.10	12.14	12.09	13.5	0.0
100	PI2 BPSK	135	69	12.09	12.09	12.09	13.5	0.0
100	PI2 BPSK	135	138	11.90	12.06	12.10	13.5	0.0
100	PI2 BPSK	270	0	12.04	12.27	11.95		
100	QPSK	1	1	12.09	12.33	12.17		
100	QPSK	1	137	11.97	12.19	12.16	13.5	0.0
100	QPSK	1	271	12.05	12.11	12.11		
100	QPSK	135	0	12.18	12.15	12.20	13.5	0.0
100	QPSK	135	69	11.89	12.21	11.84	13.5	0.0
100	QPSK	135	138	11.98	12.01	11.93	13.5	0.0
100	QPSK	270	0	12.00	12.08	12.03		
100	16QAM	1	1	11.85	11.92	11.88	13.5	0.0
100	16QAM	1	1	11.93	12.10	11.89	13.5	0.0
100	256QAM	1	1	12.18	11.75	12.07	13.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.09	12.21	12.06	13.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.04	12.27	12.10	13.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.07	12.30	12.14	13.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.07	12.28	12.12	13.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.04	12.20	12.13	13.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.06	12.25	12.15	13.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.03	12.22	12.10	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.02	12.23	12.07	13.5	0.0

Part270 n77 PC2 Ant 8 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.11	15.18	15.31		
100	PI2 BPSK	1	137	14.98	15.10	14.82	16.5	0.0
100	PI2 BPSK	1	271	14.90	15.08	14.87		
100	PI2 BPSK	135	0	15.09	15.16	14.96	16.5	0.0
100	PI2 BPSK	135	69	15.10	15.19	15.10	16.5	0.0
100	PI2 BPSK	135	138	14.96	15.19	15.17	16.5	0.0
100	PI2 BPSK	270	0	15.09	15.21	15.00		
100	QPSK	1	1	15.14	15.37	15.21		
100	QPSK	1	137	14.95	15.24	15.17	16.5	0.0
100	QPSK	1	271	15.06	15.19	15.11		
100	QPSK	135	0	15.16	15.20	15.19	16.5	0.0
100	QPSK	135	69	14.96	15.27	14.84	16.5	0.0
100	QPSK	135	138	14.98	15.02	15.00	16.5	0.0
100	QPSK	270	0	15.01	15.06	15.02		
100	16QAM	1	1	14.87	14.91	14.77	16.5	0.0
100	16QAM	1	1	14.95	15.14	14.87	16.5	0.0
100	256QAM	1	1	15.18	14.76	15.10	16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.96	15.21	15.19	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.99	15.20	15.11	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.90	15.22	15.20	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.98	15.26	15.18	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.89	15.24	15.20	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.93	15.21	15.17	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.91	15.20	15.22	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.98	15.21	15.22	16.5	0.0

Part27Q n77 Ant 8 DSI7

BW [MHz]	Modulation	RB 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		3499.98			
100	PI2 BPSK	1	137		11.91			
100	PI2 BPSK	1	271		11.86		13.5	0.0
100	PI2 BPSK	135	0		11.84			
100	PI2 BPSK	135	69		11.87		13.5	0.0
100	PI2 BPSK	135	138		11.93		13.5	0.0
100	PI2 BPSK	270	0		11.78		13.5	0.0
100	QPSK	1	1		11.88			
100	QPSK	1	137		12.01		13.5	0.0
100	QPSK	1	271		11.96			
100	QPSK	135	0		11.82		13.5	0.0
100	QPSK	135	69		11.93		13.5	0.0
100	QPSK	135	138		11.82		13.5	0.0
100	QPSK	270	0		11.82			
100	16QAM	1	1		11.73		13.5	0.0
100	16QAM	1	1		11.87		13.5	0.0
100	256QAM	1	1		11.96		13.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633332	633666	MPR	
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3499.98	3504.99	MPR	
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.72	11.92	11.69	13.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	11.72	11.93	11.68	13.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.72	11.98	11.67	13.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.66	11.95	11.68	13.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	11.85	11.92	11.70	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.70	11.97	11.73	13.5	0.0



Part27Q n77 PC2 Ant 8 DS17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI2 BPSK	1	1	14.90	14.90			
100	PI2 BPSK	1	137	14.75	14.75		16.5	0.0
100	PI2 BPSK	1	271	14.75	14.75		16.5	0.0
100	PI2 BPSK	135	69	14.90	14.90		16.5	0.0
100	PI2 BPSK	135	138	14.82	14.82		16.5	0.0
100	PI2 BPSK	270	0	14.91	14.91		16.5	0.0
100	QPSK	1	1	15.08	15.08		16.5	0.0
100	QPSK	1	137	14.75	14.75		16.5	0.0
100	QPSK	1	271	15.03	15.03		16.5	0.0
100	QPSK	135	69	14.85	14.85		16.5	0.0
100	QPSK	135	138	14.97	14.97		16.5	0.0
100	QPSK	135	138	14.76	14.76		16.5	0.0
100	QPSK	270	0	14.83	14.83		16.5	0.0
100	16QAM	1	1	14.74	14.74		16.5	0.0
100	64QAM	1	1	14.94	14.94		16.5	0.0
100	256QAM	1	1	14.84	14.84		16.5	0.0
Channel				633000				
Frequency (MHz)				3495				
90	QPSK	1	1	14.70	14.99	14.67	16.5	0.0
Channel				633668				
Frequency (MHz)				3490.02				
80	QPSK	1	1	14.60	14.90	14.04	16.5	0.0
Channel				633334				
Frequency (MHz)				3485.01				
70	QPSK	1	1	14.67	15.00	14.59	16.5	0.0
Channel				632000				
Frequency (MHz)				3480				
60	QPSK	1	1	14.68	14.95	14.60	16.5	0.0
Channel				631668				
Frequency (MHz)				3475.02				
50	QPSK	1	1	14.69	14.95	14.62	16.5	0.0
Channel				631334				
Frequency (MHz)				3470.01				
40	QPSK	1	1	14.65	15.04	14.60	16.5	0.0
Channel				631000				
Frequency (MHz)				3465				
30	QPSK	1	1	14.63	14.99	14.60	16.5	0.0
Channel				630668				
Frequency (MHz)				3460.02				
20	QPSK	1	1	14.67	14.95	14.65	16.5	0.0

Part27O n78 Ant 8 DS17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	12.75	12.75			
100	PI2 BPSK	1	137	12.83	12.83		13.5	0.0
100	PI2 BPSK	1	271	12.52	12.52		13.5	0.0
100	PI2 BPSK	135	69	12.72	12.72		13.5	0.0
100	PI2 BPSK	135	138	12.83	12.83		13.5	0.0
100	PI2 BPSK	135	138	12.72	12.72		13.5	0.0
100	PI2 BPSK	270	0	12.74	12.74		13.5	0.0
100	QPSK	1	1	12.81	12.81		13.5	0.0
100	QPSK	1	137	12.88	12.88		13.5	0.0
100	QPSK	1	271	12.84	12.84		13.5	0.0
100	QPSK	135	69	12.55	12.55		13.5	0.0
100	QPSK	135	138	12.74	12.74		13.5	0.0
100	QPSK	135	138	12.59	12.59		13.5	0.0
100	QPSK	270	0	12.86	12.86		13.5	0.0
100	16QAM	1	1	12.52	12.52		13.5	0.0
100	64QAM	1	1	12.84	12.84		13.5	0.0
100	256QAM	1	1	12.40	12.40		13.5	0.0
Channel				640668				
Frequency (MHz)				3745.02				
90	QPSK	1	1	12.42	12.64	12.38	13.5	0.0
Channel				649334				
Frequency (MHz)				3740.01				
80	QPSK	1	1	12.39	12.55	12.43	13.5	0.0
Channel				649000				
Frequency (MHz)				3735				
70	QPSK	1	1	12.36	12.59	12.38	13.5	0.0
Channel				648668				
Frequency (MHz)				3730.02				
60	QPSK	1	1	12.43	12.85	12.40	13.5	0.0
Channel				648334				
Frequency (MHz)				3725.01				
50	QPSK	1	1	12.43	12.80	12.44	13.5	0.0
Channel				648000				
Frequency (MHz)				3720				
40	QPSK	1	1	12.44	12.85	12.38	13.5	0.0
Channel				647668				
Frequency (MHz)				3715.02				
30	QPSK	1	1	12.37	12.54	12.37	13.5	0.0
Channel				647334				
Frequency (MHz)				3710.01				
20	QPSK	1	1	12.43	12.84	12.42	13.5	0.0

Part27Q n78 Ant 8 DS17								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	12.33	12.33			
100	PI2 BPSK	1	137	12.26	12.26		13.5	0.0
100	PI2 BPSK	1	271	12.20	12.20		13.5	0.0
100	PI2 BPSK	135	69	12.15	12.15		13.5	0.0
100	PI2 BPSK	135	138	12.19	12.19		13.5	0.0
100	PI2 BPSK	135	138	12.27	12.27		13.5	0.0
100	PI2 BPSK	270	0	12.23	12.23		13.5	0.0
100	QPSK	1	1	12.43	12.43		13.5	0.0
100	QPSK	1	137	12.32	12.32		13.5	0.0
100	QPSK	1	271	12.42	12.42		13.5	0.0
100	QPSK	135	69	12.14	12.14		13.5	0.0
100	QPSK	135	138	12.37	12.37		13.5	0.0
100	QPSK	135	138	12.19	12.19		13.5	0.0
100	QPSK	270	0	12.24	12.24		13.5	0.0
100	16QAM	1	1	12.12	12.12		13.5	0.0
100	64QAM	1	1	12.21	12.21		13.5	0.0
100	256QAM	1	1	11.97	11.97		13.5	0.0
Channel				633000				
Frequency (MHz)				3495				
90	QPSK	1	1	12.00	12.19	12.12	13.5	0.0
Channel				632668				
Frequency (MHz)				3490.02				
80	QPSK	1	1	11.93	12.24	12.12	13.5	0.0
Channel				632334				
Frequency (MHz)				3485.01				
70	QPSK	1	1	11.98	12.18	12.10	13.5	0.0
Channel				632000				
Frequency (MHz)				3480				
60	QPSK	1	1	11.98	12.18	12.20	13.5	0.0
Channel				631668				
Frequency (MHz)				3475.02				
50	QPSK	1	1	11.98	12.19	12.11	13.5	0.0
Channel				631334				
Frequency (MHz)				3470.01				
40	QPSK	1	1	11.95	12.16	12.22	13.5	0.0
Channel				631000				
Frequency (MHz)				3465				
30	QPSK	1	1	12.05	12.19	12.15	13.5	0.0
Channel				630668				
Frequency (MHz)				3460.02				
20	QPSK	1	1	11.98	12.24	12.21	13.5	0.0



Part27Q n78 PC2 Ant 8 DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		15.24			
100	PI/2 BPSK	1	137		15.24		18.5	0.0
100	PI/2 BPSK	1	271		15.15			
100	PI/2 BPSK	135	0		15.07		18.5	0.0
100	PI/2 BPSK	135	89		15.07		18.5	0.0
100	PI/2 BPSK	135	138		15.17		18.5	0.0
100	PI/2 BPSK	270	0		15.21			
100	QPSK	1	1		15.38			
100	QPSK	1	137		15.29		18.5	0.0
100	QPSK	1	271		15.33			
100	QPSK	135	0		15.00		18.5	0.0
100	QPSK	135	89		15.24		18.5	0.0
100	QPSK	135	138		15.08			
100	QPSK	270	0		15.13		18.5	0.0
100	16QAM	1	1		14.93		18.5	0.0
100	16QAM	1	1		15.09		18.5	0.0
100	256QAM	1	1		14.80		18.5	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	14.88	15.14	15.10	18.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.79	15.07	15.06	18.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.80	15.08	15.06	18.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3520.02		
60	QPSK	1	1	14.83	15.18	15.12	18.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.87	15.15	15.16	18.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.88	15.16	15.16	18.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.89	15.17	15.09	18.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.90	15.09	15.06	18.5	0.0



Reduced Power Mode for Main PA DSI7 ENDC

n2 Ant 0 DSI7 sig path: 164										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37200	37600	38000				
Frequency (MHz)				1860	1880	1900				
20	PI2 BPSK	1	1	15.77	15.65	15.69				
20	PI2 BPSK	1	53	15.53	15.68	15.35	16.5	0.0		
20	PI2 BPSK	1	104	15.56	15.48	15.52				
20	PI2 BPSK	50	0	15.55	15.77	15.61	16.5	0.0		
20	PI2 BPSK	50	28	15.48	15.64	15.43	16.5	0.0		
20	PI2 BPSK	50	56	15.43	15.64	15.53				
20	PI2 BPSK	100	0	15.47	15.66	15.65	16.5	0.0		
20	QPSK	1	1	15.72	15.63	15.53				
20	QPSK	1	53	15.63	15.68	15.71	16.5	0.0		
20	QPSK	1	104	15.50	15.66	15.58				
20	QPSK	50	0	15.65	15.60	15.73	16.5	0.0		
20	QPSK	50	28	15.54	15.76	15.42	16.5	0.0		
20	QPSK	50	56	15.68	15.58	15.64				
20	QPSK	100	0	15.53	15.72	15.64	16.5	0.0		
20	16QAM	1	1	15.36	15.49	15.31	16.5	0.0		
20	64QAM	1	1	15.45	15.59	15.34	16.5	0.0		
20	256QAM	1	1	15.72	15.34	15.48	16.5	0.0		
Channel				37150	37600	38050	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	1	15.51	15.56	15.60	16.5	0.0		
Channel				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	1	15.47	15.56	15.60	16.5	0.0		
Channel				37050	37600	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	1	15.47	15.55	15.64	16.5	0.0		

n2 Ant 0 DSI7 sig path: 429										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37200	37600	38000				
Frequency (MHz)				1860	1880	1900				
20	PI2 BPSK	1	1	15.61	15.63	15.75				
20	PI2 BPSK	1	53	15.65	15.80	15.50	16.5	0.0		
20	PI2 BPSK	1	104	15.60	15.74	15.60				
20	PI2 BPSK	50	0	15.63	15.73	15.82	16.5	0.0		
20	PI2 BPSK	50	28	15.76	15.76	15.58	16.5	0.0		
20	PI2 BPSK	50	56	15.53	15.84	15.59				
20	PI2 BPSK	100	0	15.65	15.81	15.57	16.5	0.0		
20	QPSK	1	1	15.77	15.62	15.71				
20	QPSK	1	53	15.63	15.85	15.69	16.5	0.0		
20	QPSK	1	104	15.59	15.88	15.74				
20	QPSK	50	0	15.67	15.69	15.75	16.5	0.0		
20	QPSK	50	28	15.61	15.83	15.70	16.5	0.0		
20	QPSK	50	56	15.81	15.61	15.68				
20	QPSK	100	0	15.75	15.83	15.76	16.5	0.0		
20	16QAM	1	1	15.53	15.62	15.49	16.5	0.0		
20	64QAM	1	1	15.47	15.75	15.56	16.5	0.0		
20	256QAM	1	1	15.75	15.48	15.64	16.5	0.0		
Channel				37150	37600	38050	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	1	15.59	15.76	15.53	16.5	0.0		
Channel				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	1	15.62	15.62	15.56	16.5	0.0		
Channel				37050	37600	38150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	1	15.60	15.81	15.54	16.5	0.0		

n5 Ant 0 DSI7 sig path: 168										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				16800	16730	16760				
Frequency (MHz)				834	836.5	839				
20	PI2 BPSK	1	1	19.26	19.40	19.10				
20	PI2 BPSK	1	53	19.17	19.25	19.07	20.0	0.0		
20	PI2 BPSK	1	104	19.12	19.44	19.15				
20	PI2 BPSK	50	0	19.33	19.35	19.17	20.0	0.0		
20	PI2 BPSK	50	28	19.29	19.33	19.14	20.0	0.0		
20	PI2 BPSK	50	56	19.13	19.32	19.23				
20	PI2 BPSK	100	0	19.28	19.28	19.25	20.0	0.0		
20	QPSK	1	1	19.32	19.46	19.13				
20	QPSK	1	53	19.24	19.34	19.09	20.0	0.0		
20	QPSK	1	104	19.14	19.41	19.22				
20	QPSK	50	0	19.21	19.34	19.30	20.0	0.0		
20	QPSK	50	28	19.32	19.37	19.13	20.0	0.0		
20	QPSK	50	56	19.30	19.34	19.12				
20	QPSK	100	0	19.27	19.35	19.17	20.0	0.0		
20	16QAM	1	1	19.21	19.46	19.29	20.0	0.0		
20	64QAM	1	1	19.27	19.28	19.24	20.0	0.0		
20	256QAM	1	1	19.24	19.26	19.10	19.5	0.5		
Channel				16830	16730	16830	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				831.5	836.5	841.5				
15	QPSK	1	1	19.28	19.31	19.07	20.0	0.0		
Channel				16880	16730	16880	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				829	836.5	844				
10	QPSK	1	1	19.25	19.38	19.11	20.0	0.0		
Channel				16830	16730	16830	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5				
5	QPSK	1	1	19.12	19.36	19.26	20.0	0.0		



n5 Ant 0 DSI7 sig path: 414

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				16600	16700	16760		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	18.74	18.90	18.71	20.0	0.0
20	PI2 BPSK	1	53	18.83	18.93	18.72		
20	PI2 BPSK	1	104	18.75	18.90	18.83		
20	PI2 BPSK	50	0	18.75	18.98	18.87	20.0	0.0
20	PI2 BPSK	50	26	18.90	18.85	18.84	20.0	0.0
20	PI2 BPSK	50	56	18.82	18.80	18.71	20.0	0.0
20	PI2 BPSK	100	0	18.81	18.79	18.75		
20	QPSK	1	1	18.97	18.02	18.89		
20	QPSK	1	53	18.88	18.00	18.82	20.0	0.0
20	QPSK	1	104	18.90	18.86	18.73		
20	QPSK	50	0	18.87	18.87	18.79	20.0	0.0
20	QPSK	50	28	18.82	18.96	18.89	20.0	0.0
20	QPSK	50	56	18.79	18.90	18.86		
20	QPSK	100	0	18.51	18.93	18.87	20.0	0.0
20	16QAM	1	1	18.59	18.83	18.68	20.0	0.0
20	64QAM	1	1	18.78	18.90	18.75	20.0	0.0
20	256QAM	1	1	18.67	18.93	18.85	20.0	0.0
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				829.5	832.5	841.5	(dBm)	(dB)
15	QPSK	1	1	18.74	18.85	18.81	20.0	0.0
Channel				166800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	18.84	18.81	18.63	20.0	0.0
Channel				167300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	18.66	18.83	18.63	20.0	0.0

n12 Ant 0 DSI7 sig path: 172

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.97	23.06	22.95		
15	PI2 BPSK	1	49	22.85	22.99	22.87	24.0	0.0
15	PI2 BPSK	1	77	22.88	23.02	22.91		
15	PI2 BPSK	36	0	22.53	22.83	22.57	23.5	0.5
15	PI2 BPSK	36	22	23.03	23.09	22.97	24.0	0.0
15	PI2 BPSK	36	43	22.46	22.56	22.48	23.5	0.5
15	PI2 BPSK	75	0	22.46	22.57	22.51		
15	QPSK	1	1	22.99	23.13	23.03		
15	QPSK	1	49	23.03	23.09	22.98	24.0	0.0
15	QPSK	1	77	22.93	23.05	22.93		
15	QPSK	36	0	21.97	22.03	21.98	23.0	1.0
15	QPSK	36	22	22.97	23.04	22.93	24.0	0.0
15	QPSK	36	43	21.88	21.93	21.87		
15	QPSK	75	0	21.91	21.98	21.86	23.0	1.0
15	16QAM	1	1	21.88	22.02	21.95	23.0	1.0
15	64QAM	1	1	20.54	20.65	20.51	21.5	2.5
15	256QAM	1	1	18.51	18.59	18.53	19.5	4.5
Channel				140800	141500	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.91	23.04	22.91	24.0	0.0
Channel				140300	141500	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.89	23.02	22.96	24.0	0.0

n12 Ant 0 DSI7 sig path: 417

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.81	22.85	22.82		
15	PI2 BPSK	1	49	22.68	22.78	22.66	24.0	0.0
15	PI2 BPSK	1	77	22.70	22.80	22.63		
15	PI2 BPSK	36	0	22.27	22.43	22.31	23.5	0.5
15	PI2 BPSK	36	22	22.76	22.79	22.74	24.0	0.0
15	PI2 BPSK	36	43	22.26	22.37	22.29	23.5	0.5
15	PI2 BPSK	75	0	22.31	22.46	22.32		
15	QPSK	1	1	22.92	22.93	22.88		
15	QPSK	1	49	22.82	22.78	22.73	24.0	0.0
15	QPSK	1	77	22.74	22.82	22.84		
15	QPSK	36	0	21.88	21.94	21.89	23.0	1.0
15	QPSK	36	22	22.80	22.89	22.88	24.0	0.0
15	QPSK	36	43	21.78	21.88	21.81		
15	QPSK	75	0	21.80	21.96	21.86	23.0	1.0
15	16QAM	1	1	22.20	22.24	22.13	23.0	1.0
15	64QAM	1	1	20.08	20.11	20.08	21.5	2.5
15	256QAM	1	1	18.50	18.59	18.57	19.5	4.5
Channel				140800	141500	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.82	22.74	22.83	24.0	0.0
Channel				140300	141500	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.90	22.76	22.79	24.0	0.0



n25 Ant 0 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1892.5	1895			
40	Pi/2 BPSK	1	1	15.88	16.06	15.97			
40	Pi/2 BPSK	1	108	15.81	15.80	15.70	16.5	0.0	
40	Pi/2 BPSK	1	214	15.69	15.94	15.72			
40	Pi/2 BPSK	108	0	15.74	16.94	15.85	16.5	0.0	
40	Pi/2 BPSK	108	54	15.85	15.90	15.81	16.5	0.0	
40	Pi/2 BPSK	108	108	15.77	15.84	15.73	16.5	0.0	
40	Pi/2 BPSK	216	0	15.92	15.97	15.83			
40	QPSK	1	1	15.94	16.11	15.88			
40	QPSK	1	108	15.87	16.90	16.00	16.5	0.0	
40	QPSK	1	214	15.85	15.96	15.80			
40	QPSK	108	0	15.85	15.91	15.88	16.5	0.0	
40	QPSK	108	54	15.83	15.94	15.86	16.5	0.0	
40	QPSK	108	108	15.80	15.86	15.84	16.5	0.0	
40	QPSK	216	0	15.88	16.81	15.74			
40	16QAM	1	1	15.78	15.80	15.55	16.5	0.0	
40	64QAM	1	1	15.89	15.80	15.68	16.5	0.0	
40	256QAM	1	1	15.85	15.52	15.91	16.5	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1892.5	1900			
30	QPSK	1	1	15.82	16.04	15.77	16.5	0.0	
Channel				372600	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1892.5	1902.5			
25	QPSK	1	1	15.84	16.08	15.71	16.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1892.5	1905			
20	QPSK	1	1	15.86	16.09	15.69	16.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1892.5	1897.5			
15	QPSK	1	1	15.71	16.01	15.75	16.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1892.5	1910			
10	QPSK	1	1	15.78	15.97	15.83	16.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1892.5	1912.5			
5	QPSK	1	1	15.81	16.06	15.75	16.5	0.0	

n66 Ant 0 DS17 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	352000			
Frequency (MHz)				1730	1745	1750			
40	Pi/2 BPSK	1	1	16.73	16.78	16.75			
40	Pi/2 BPSK	1	108	16.63	16.75	16.47	18.0	0.0	
40	Pi/2 BPSK	1	214	16.48	16.74	16.51			
40	Pi/2 BPSK	108	0	16.71	16.87	16.87	18.0	0.0	
40	Pi/2 BPSK	108	54	16.60	16.69	16.53	18.0	0.0	
40	Pi/2 BPSK	108	108	16.53	16.79	16.82	18.0	0.0	
40	Pi/2 BPSK	216	0	16.77	16.74	16.82			
40	QPSK	1	1	16.82	16.87	16.84			
40	QPSK	1	108	16.75	16.82	16.70	18.0	0.0	
40	QPSK	1	214	16.53	16.81	16.61			
40	QPSK	108	0	16.77	16.65	16.75	18.0	0.0	
40	QPSK	108	54	16.51	16.79	16.56	18.0	0.0	
40	QPSK	108	108	16.67	16.60	16.78	18.0	0.0	
40	QPSK	216	0	16.69	16.71	16.69			
40	16QAM	1	1	16.57	16.62	16.51	18.0	0.0	
40	64QAM	1	1	16.65	16.70	16.54	18.0	0.0	
40	256QAM	1	1	16.75	16.40	16.60	18.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.64	16.78	16.61	18.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.66	16.83	16.50	18.0	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.65	16.77	16.56	18.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.62	16.76	16.58	18.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.63	16.76	16.61	18.0	0.0	



n66 Ant 0 DS17 sig path: 432									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI/2 BPSK	1	1	16.77	16.78	16.75			
40	PI/2 BPSK	1	108	16.75	16.89	16.61	18.0	0.0	
40	PI/2 BPSK	1	214	16.51	16.75	16.69			
40	PI/2 BPSK	108	0	16.54	16.80	16.67	18.0	0.0	
40	PI/2 BPSK	108	54	16.61	16.72	16.65	18.0	0.0	
40	PI/2 BPSK	108	108	16.53	16.75	16.60	18.0	0.0	
40	PI/2 BPSK	216	0	16.68	16.83	16.70			
40	QPSK	1	1	16.64	16.61	16.76			
40	QPSK	1	108	16.60	16.68	16.54	18.0	0.0	
40	QPSK	1	214	16.61	16.74	16.68			
40	QPSK	108	0	16.68	16.68	16.63	18.0	0.0	
40	QPSK	108	54	16.49	16.77	16.64	18.0	0.0	
40	QPSK	108	108	16.66	16.70	16.73	18.0	0.0	
40	QPSK	216	0	16.65	16.72	16.65			
40	16QAM	1	1	16.39	16.60	16.57	18.0	0.0	
40	64QAM	1	1	16.61	16.65	16.47	18.0	0.0	
40	256QAM	1	1	16.79	16.46	16.67	18.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	16.53	16.88	16.62	18.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	16.66	16.60	16.59	18.0	0.0	
Channel				345500	349000	351500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	16.58	16.78	16.53	18.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	16.59	16.85	16.61	18.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	16.55	16.78	16.65	18.0	0.0	

n71 Ant 0 DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	23.07	23.21	23.12			
20	PI/2 BPSK	1	53	23.03	23.15	23.01	24.0	0.0	
20	PI/2 BPSK	1	104	23.02	23.10	22.95			
20	PI/2 BPSK	50	0	22.67	22.73	22.84	23.5	0.5	
20	PI/2 BPSK	50	28	23.01	23.11	23.04	24.0	0.0	
20	PI/2 BPSK	50	56	22.52	22.62	22.57	23.5	0.5	
20	PI/2 BPSK	100	0	22.70	22.77	22.82			
20	QPSK	1	1	23.13	23.24	23.16			
20	QPSK	1	53	23.10	23.21	23.15	24.0	0.0	
20	QPSK	1	104	23.00	23.13	23.06			
20	QPSK	50	0	22.14	22.24	22.15	23.0	1.0	
20	QPSK	50	28	23.06	23.16	23.06	24.0	0.0	
20	QPSK	50	56	21.97	22.11	21.97	23.0	1.0	
20	QPSK	100	0	22.10	22.23	22.17			
20	16QAM	1	1	22.37	22.47	22.38	23.0	1.0	
20	64QAM	1	1	20.46	20.60	20.54	21.5	2.5	
20	256QAM	1	1	18.87	18.99	18.84	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)	
15	QPSK	1	1	22.98	23.10	23.04	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				668	680.5	693	(dBm)	(dB)	
10	QPSK	1	1	23.01	23.13	23.08	24.0	0.0	
Channel				133100	136100	137600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				665.5	680.5	695.5	(dBm)	(dB)	
5	QPSK	1	1	22.99	23.11	23.05	24.0	0.0	



n7 Ant 1 DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				503000	507000	510000	
Frequency (MHz)				2530	2535	2550	
40	PI/2 BPSK	1	1	18.24	16.32	16.28	
40	PI/2 BPSK	1	108	18.18	16.30	15.99	17.0
40	PI/2 BPSK	1	214	18.10	16.17	16.16	
40	PI/2 BPSK	108	0	18.12	16.30	16.18	17.0
40	PI/2 BPSK	108	54	18.18	16.28	16.16	17.0
40	PI/2 BPSK	108	108	18.18	16.20	16.19	17.0
40	PI/2 BPSK	216	0	18.16	16.38	16.20	
40	QPSK	1	1	18.20	16.43	16.19	
40	QPSK	1	108	18.08	16.27	16.25	17.0
40	QPSK	1	214	18.13	16.34	16.20	
40	QPSK	108	0	18.21	16.28	16.22	17.0
40	QPSK	108	54	18.05	16.52	16.16	17.0
40	QPSK	108	108	18.25	16.17	16.29	17.0
40	QPSK	216	0	18.09	16.30	16.25	
40	16QAM	1	1	18.08	16.17	16.04	17.0
40	16QAM	1	1	18.08	16.28	16.05	17.0
40	256QAM	1	1	18.29	15.62	16.07	17.0
Channel				503300	507000	511000	
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	18.14	16.38	16.11	17.0
Channel				502500	507000	511500	
Frequency (MHz)				2512.5	2535	2527.5	
25	QPSK	1	1	18.02	16.25	16.13	17.0
Channel				502000	507000	510000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.18	16.39	16.12	17.0
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	1	18.16	16.25	16.15	17.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	1	18.07	16.29	16.02	17.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	18.18	16.28	16.09	17.0

n30 Ant 1 DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				482000	482000	482000	
Frequency (MHz)				2310	2310	2310	
10	PI/2 BPSK	1	1	18.36	18.36	18.36	
10	PI/2 BPSK	1	26	18.36	18.36	18.36	19.0
10	PI/2 BPSK	1	50	18.32	18.32	18.32	19.0
10	PI/2 BPSK	25	0	18.27	18.27	18.27	19.0
10	PI/2 BPSK	25	14	18.28	18.28	18.28	19.0
10	PI/2 BPSK	25	27	18.50	18.50	18.50	19.0
10	PI/2 BPSK	50	0	18.46	18.46	18.46	19.0
10	QPSK	1	1	18.32	18.32	18.32	19.0
10	QPSK	1	26	18.38	18.38	18.38	19.0
10	QPSK	1	50	18.40	18.40	18.40	19.0
10	QPSK	25	0	18.39	18.39	18.39	19.0
10	QPSK	25	14	18.43	18.43	18.43	19.0
10	QPSK	25	27	18.21	18.21	18.21	19.0
10	QPSK	50	0	18.35	18.35	18.35	19.0
10	16QAM	1	1	18.48	18.48	18.48	19.0
10	16QAM	1	1	18.49	18.49	18.49	19.0
10	256QAM	1	1	18.32	18.32	18.32	19.0
Channel				481500	482000	482500	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	18.32	18.28	18.33	19.0



n41 Ant 1 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.74	14.99	14.71			
100	PI2 BPSK	1	137	14.86	14.98	14.77	16.0	0.0	
100	PI2 BPSK	1	271	14.76	14.76	14.76			
100	PI2 BPSK	135	0	14.76	14.92	14.77	16.0	0.0	
100	PI2 BPSK	135	69	14.93	14.93	14.75	16.0	0.0	
100	PI2 BPSK	135	138	14.81	14.90	14.92	16.0	0.0	
100	PI2 BPSK	270	0	14.95	14.98	14.71			
100	QPSK	1	1	14.87	15.00	14.87			
100	QPSK	1	137	14.77	14.77	14.75	16.0	0.0	
100	QPSK	1	271	14.93	14.92	14.91			
100	QPSK	135	0	14.88	14.83	14.87	16.0	0.0	
100	QPSK	135	69	14.94	14.95	14.89	16.0	0.0	
100	QPSK	135	138	14.86	14.77	14.84	16.0	0.0	
100	QPSK	270	0	14.82	14.87	14.73			
100	16QAM	1	1	14.91	14.89	14.84	16.0	0.0	
100	16QAM	1	1	14.82	14.91	14.89	16.0	0.0	
100	256QAM	1	1	14.93	14.96	14.89	16.0	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.71	14.87	14.74	16.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.90	14.91	14.72	16.0	0.0	
Channel				503002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	14.84	14.89	14.89	16.0	0.0	
Channel				503200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	14.76	14.96	14.93	16.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.72	14.62	14.88	16.0	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.82	14.79	14.91	16.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	14.83	14.83	14.93	16.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.93	14.81	14.86	16.0	0.0	

n41 PC2 Ant 1 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.97	18.11	17.96			
100	PI2 BPSK	1	137	18.12	18.11	17.82	19.0	0.0	
100	PI2 BPSK	1	271	18.05	17.91	18.03			
100	PI2 BPSK	135	0	17.93	17.92	17.90	19.0	0.0	
100	PI2 BPSK	135	69	18.02	17.99	17.90	19.0	0.0	
100	PI2 BPSK	135	138	18.09	18.04	17.98	19.0	0.0	
100	PI2 BPSK	270	0	17.90	18.13	17.86			
100	QPSK	1	1	18.03	18.15	18.09			
100	QPSK	1	137	18.05	17.97	17.85	19.0	0.0	
100	QPSK	1	271	18.02	17.98	17.91			
100	QPSK	135	0	17.90	18.10	18.05	19.0	0.0	
100	QPSK	135	69	17.98	18.11	17.87	19.0	0.0	
100	QPSK	135	138	18.01	17.93	17.90	19.0	0.0	
100	QPSK	270	0	17.93	17.95	17.86			
100	16QAM	1	1	17.99	18.11	18.01	19.0	0.0	
100	16QAM	1	1	17.95	18.11	17.93	19.0	0.0	
100	256QAM	1	1	18.09	18.11	18.01	19.0	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.94	17.95	17.83	19.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.86	18.12	17.84	19.0	0.0	
Channel				503002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	17.96	17.99	17.85	19.0	0.0	
Channel				503200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	18.02	18.05	17.93	19.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.95	17.84	17.83	19.0	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.97	18.10	17.87	19.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.93	18.03	17.99	19.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.09	18.01	17.84	19.0	0.0	



n2 Ant 4 DS17 sig path: 164

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	12.79	12.87	12.88		
20	PI2 BPSK	1	53	12.85	12.79	12.70	14.0	0.0
20	PI2 BPSK	1	104	12.57	12.81	12.86		
20	PI2 BPSK	50	0	12.78	12.88	12.84	14.0	0.0
20	PI2 BPSK	50	28	12.77	12.79	12.64	14.0	0.0
20	PI2 BPSK	50	56	12.83	12.77	12.65	14.0	0.0
20	PI2 BPSK	100	0	12.84	12.87	12.72		
20	QPSK	1	1	12.84	12.88	12.78		
20	QPSK	1	53	12.85	12.72	12.88	14.0	0.0
20	QPSK	1	104	12.80	12.80	12.74		
20	QPSK	50	0	12.84	12.78	12.84	14.0	0.0
20	QPSK	50	28	12.57	12.87	12.75	14.0	0.0
20	QPSK	50	56	12.85	12.72	12.73	14.0	0.0
20	QPSK	100	0	12.87	12.52	12.75		
20	16QAM	1	1	12.57	12.61	12.61	14.0	0.0
20	16QAM	1	1	12.59	12.84	12.57	14.0	0.0
20	256QAM	1	1	12.77	12.59	12.68	14.0	0.0
Channel				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	12.68	12.82	12.77	14.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	12.83	12.72	12.77	14.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	12.58	12.85	12.87	14.0	0.0

n2 Ant 4 DS17 sig path: 429

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	12.70	12.58	12.61		
20	PI2 BPSK	1	53	12.73	12.88	12.74	14.0	0.0
20	PI2 BPSK	1	104	12.73	12.80	12.74		
20	PI2 BPSK	50	0	12.73	12.73	12.64	14.0	0.0
20	PI2 BPSK	50	28	12.56	12.77	12.62	14.0	0.0
20	PI2 BPSK	50	56	12.76	12.54	12.53	14.0	0.0
20	PI2 BPSK	100	0	12.79	12.81	12.79		
20	QPSK	1	1	12.51	12.85	12.89		
20	QPSK	1	53	12.54	12.55	12.61	14.0	0.0
20	QPSK	1	104	12.63	12.61	12.60		
20	QPSK	50	0	12.59	12.64	12.54	14.0	0.0
20	QPSK	50	28	12.59	12.74	12.51	14.0	0.0
20	QPSK	50	56	12.52	12.80	12.58	14.0	0.0
20	QPSK	100	0	12.56	12.89	12.63		
20	16QAM	1	1	12.65	12.67	12.63	14.0	0.0
20	16QAM	1	1	12.63	12.59	12.65	14.0	0.0
20	256QAM	1	1	12.61	12.64	12.61	14.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	12.74	12.70	12.56	14.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	12.72	12.60	12.67	14.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	12.74	12.68	12.54	14.0	0.0

n5 Ant 4 DS17 sig path: 168

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167000	167500		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	18.54	18.68	18.82		
20	PI2 BPSK	1	53	18.42	18.86	18.41	19.5	0.0
20	PI2 BPSK	1	104	18.51	18.83	18.33		
20	PI2 BPSK	50	0	18.44	18.82	18.59	19.5	0.0
20	PI2 BPSK	50	28	18.72	18.76	18.47	19.5	0.0
20	PI2 BPSK	50	56	18.45	18.84	18.56	19.5	0.0
20	PI2 BPSK	100	0	18.46	18.75	18.62		
20	QPSK	1	1	18.50	18.85	18.52		
20	QPSK	1	53	18.61	18.80	18.71	19.5	0.0
20	QPSK	1	104	18.59	18.80	18.59		
20	QPSK	50	0	18.73	18.54	18.58	19.5	0.0
20	QPSK	50	28	18.36	18.80	18.53	19.5	0.0
20	QPSK	50	56	18.59	18.68	18.59	19.5	0.0
20	QPSK	100	0	18.50	18.57	18.40		
20	16QAM	1	1	18.54	18.46	18.39	19.5	0.0
20	16QAM	1	1	18.36	18.73	18.43	19.5	0.0
20	256QAM	1	1	18.55	18.65	18.65	19.5	0.0
Channel				165300	167000	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	18.44	18.68	18.48	19.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	18.41	18.67	18.40	19.5	0.0
Channel				165300	167000	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	18.40	18.80	18.36	19.5	0.0



n5 Ant 4 DS17 sig path: 414

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16930	16930	16930		
20	PI2 BPSK	1	1	18.46	18.63	18.74		
20	PI2 BPSK	1	53	18.27	18.61	18.23	19.5	0.0
20	PI2 BPSK	1	104	18.36	18.56	18.28		
20	PI2 BPSK	50	0	18.31	18.50	18.45	19.5	0.0
20	PI2 BPSK	50	26	18.57	18.83	18.39	19.5	0.0
20	PI2 BPSK	50	56	18.33	18.10	18.47	19.5	0.0
20	PI2 BPSK	100	0	18.31	18.66	18.48		
20	QPSK	1	1	18.42	18.77	18.43	19.5	0.0
20	QPSK	1	53	18.51	18.74	18.63		
20	QPSK	1	104	18.44	18.75	18.44		
20	QPSK	50	0	18.59	18.47	18.50	19.5	0.0
20	QPSK	50	26	18.31	18.65	18.42	19.5	0.0
20	QPSK	50	56	18.54	18.57	18.45	19.5	0.0
20	QPSK	100	0	18.44	18.52	18.28		
20	16QAM	1	1	18.50	18.40	18.34	19.5	0.0
20	16QAM	1	1	18.25	18.62	18.34	19.5	0.0
20	256QAM	1	1	18.41	18.54	18.50	19.5	0.0
Channel								
Frequency (MHz)				16930	16930	16930	Tune-up limit (dB)	MPR (dB)
Channel				631.5	638.5	641.5		
15	QPSK	1	1	18.34	18.58	18.32	19.5	0.0
Channel								
Frequency (MHz)				168800	167300	168800	Tune-up limit (dB)	MPR (dB)
Channel				829	838.5	841		
10	QPSK	1	1	18.28	18.62	18.42	19.5	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dB)	MPR (dB)
Channel				826.5	838.5	846.5		
5	QPSK	1	1	18.29	18.67	18.25	19.5	0.0

n12 Ant 4 DS17 sig path: 172

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				141300	141500	141700		
15	PI2 BPSK	1	1	23.16	23.22	23.11		
15	PI2 BPSK	1	40	23.06	23.17	23.07	24.0	0.0
15	PI2 BPSK	1	77	23.01	23.13	22.99		
15	PI2 BPSK	36	0	22.84	22.75	22.86	23.5	0.5
15	PI2 BPSK	36	22	23.11	23.17	23.07	24.0	0.0
15	PI2 BPSK	36	43	22.56	22.69	22.61	23.5	0.5
15	PI2 BPSK	75	0	22.65	22.77	22.67		
15	QPSK	1	1	23.19	23.23	23.15	24.0	0.0
15	QPSK	1	40	23.07	23.18	23.09		
15	QPSK	1	77	22.98	23.08	23.00		
15	QPSK	36	0	22.23	22.29	22.17	23.0	1.0
15	QPSK	36	22	23.07	23.15	23.00	24.0	0.0
15	QPSK	36	43	22.06	22.16	22.09	23.0	1.0
15	QPSK	75	0	22.15	22.23	22.11		
15	16QAM	1	1	22.34	22.46	22.39	23.0	1.0
15	16QAM	1	1	20.45	20.53	20.39	21.5	2.5
15	256QAM	1	1	18.92	19.06	19.01	19.5	4.5
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Channel				704	707.5	711		
10	QPSK	1	1	23.04	23.16	23.04	24.0	0.0
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Channel				701.5	707.5	713.5		
5	QPSK	1	1	23.08	23.11	23.02	24.0	0.0

n12 Ant 4 DS17 sig path: 417

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				141300	141500	141700		
15	PI2 BPSK	1	1	22.93	23.02	22.93		
15	PI2 BPSK	1	40	22.87	22.97	22.93	24.0	0.0
15	PI2 BPSK	1	77	22.91	22.95	22.98		
15	PI2 BPSK	36	0	22.49	22.83	22.44	23.5	0.5
15	PI2 BPSK	36	22	22.99	22.95	22.89	24.0	0.0
15	PI2 BPSK	36	43	22.42	22.55	22.42	23.5	0.5
15	PI2 BPSK	75	0	22.51	22.58	22.57		
15	QPSK	1	1	23.00	23.06	22.98	24.0	0.0
15	QPSK	1	40	22.97	22.98	22.81		
15	QPSK	1	77	22.86	23.02	22.85		
15	QPSK	36	0	22.05	22.11	22.05	23.0	1.0
15	QPSK	36	22	22.75	22.89	22.78	24.0	0.0
15	QPSK	36	43	21.84	21.97	21.90	23.0	1.0
15	QPSK	75	0	21.87	22.05	21.92		
15	16QAM	1	1	22.13	22.24	22.12	23.0	1.0
15	16QAM	1	1	20.32	20.48	20.32	21.5	2.5
15	256QAM	1	1	18.94	19.09	19.07	19.5	4.5
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Channel				704	707.5	711		
10	QPSK	1	1	22.95	23.05	22.88	24.0	0.0
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Channel				701.5	707.5	713.5		
5	QPSK	1	1	22.84	22.98	22.84	24.0	0.0



n25 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				376500	376500	376500			
40	PI2 BPSK	1	1	1870	1882.5	1885			
40	PI2 BPSK	1	108	12.86	13.13	13.03			0.0
40	PI2 BPSK	1	214	13.03	12.98	12.89			
40	PI2 BPSK	108	0	12.92	12.92	13.01	14.0	0.0	
40	PI2 BPSK	108	54	13.00	13.03	12.89	14.0	0.0	
40	PI2 BPSK	108	108	12.90	12.90	12.93	14.0	0.0	
40	PI2 BPSK	216	0	12.97	13.18	12.97			
40	QPSK	1	1	13.17	13.19	13.03			
40	QPSK	1	108	13.00	13.02	12.90	14.0	0.0	
40	QPSK	1	214	12.93	13.10	12.85			
40	QPSK	108	0	13.06	12.90	12.85	14.0	0.0	
40	QPSK	108	54	12.89	12.92	12.86	14.0	0.0	
40	QPSK	108	108	12.97	13.06	13.02	14.0	0.0	
40	QPSK	216	0	12.88	12.95	12.84			
40	16QAM	1	1	13.06	13.00	12.86	14.0	0.0	
40	16QAM	1	1	12.94	12.91	12.93	14.0	0.0	
40	256QAM	1	1	13.08	12.95	12.93	14.0	0.0	
Channel									
Frequency (MHz)				376500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	13.13	13.12	12.96	14.0	0.0	
Channel									
Frequency (MHz)				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	13.15	13.10	13.03	14.0	0.0	
Channel									
Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	1860	1882.5	1905			
20	QPSK	1	1	13.18	13.14	13.05	14.0	0.0	
Channel									
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	13.12	13.10	13.01	14.0	0.0	
Channel									
Frequency (MHz)				1825	1825	1912.5	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	13.14	13.07	13.00	14.0	0.0	
Channel									
Frequency (MHz)				1825	1882.5	1912.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	13.01	13.08	13.01	14.0	0.0	

n66 Ant 4 DS17 sig path: 174									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				346000	349000	352000			
40	PI2 BPSK	1	1	11.22	11.33	11.48			
40	PI2 BPSK	1	108	11.15	11.38	10.98	12.5	0.0	
40	PI2 BPSK	1	214	11.24	11.38	11.21			
40	PI2 BPSK	108	0	11.11	11.37	11.28	12.5	0.0	
40	PI2 BPSK	108	54	11.38	11.43	11.12	12.5	0.0	
40	PI2 BPSK	108	108	11.39	11.51	11.20	12.5	0.0	
40	PI2 BPSK	216	0	11.13	11.39	11.19			
40	QPSK	1	1	11.30	11.57	11.37			
40	QPSK	1	108	11.40	11.27	11.37	12.5	0.0	
40	QPSK	1	214	11.35	11.35	11.31			
40	QPSK	108	0	11.05	11.34	11.23	12.5	0.0	
40	QPSK	108	54	11.15	11.48	11.39	12.5	0.0	
40	QPSK	108	108	11.22	11.37	11.25	12.5	0.0	
40	QPSK	216	0	11.33	11.41	11.28			
40	16QAM	1	1	11.10	11.04	11.11	12.5	0.0	
40	16QAM	1	1	11.22	11.15	11.18	12.5	0.0	
40	256QAM	1	1	11.50	11.07	11.38	12.5	0.0	
Channel									
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	11.25	11.53	11.37	12.5	0.0	
Channel									
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	11.22	11.40	11.41	12.5	0.0	
Channel									
Frequency (MHz)				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	11.18	11.47	11.38	12.5	0.0	
Channel									
Frequency (MHz)				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	11.15	11.45	11.35	12.5	0.0	
10	QPSK	1	1	11.28	11.49	11.46	12.5	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	11.37	11.48	11.50	12.5	0.0	

n66 Ant 4 DS17 sig path: 432									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	11.24	11.30	11.30			
40	PI2 BPSK	1	108	11.28	11.11	11.04	12.5	0.0	
40	PI2 BPSK	1	214	11.17	11.29	11.08			
40	PI2 BPSK	108	0	11.06	11.19	11.12	12.5	0.0	
40	PI2 BPSK	108	54	11.19	11.23	10.97	12.5	0.0	
40	PI2 BPSK	108	108	11.19	11.22	11.10	12.5	0.0	
40	PI2 BPSK	216	0	11.23	11.26	10.98			
40	QPSK	1	1	11.42	11.56	11.46			
40	QPSK	1	108	11.24	11.05	11.30	12.5	0.0	
40	QPSK	1	214	11.17	11.16	11.30			
40	QPSK	108	0	11.16	11.24	11.21	12.5	0.0	
40	QPSK	108	54	10.98	11.32	11.20	12.5	0.0	
40	QPSK	108	108	11.14	11.04	11.12	12.5	0.0	
40	QPSK	216	0	11.38	11.36	11.35			
40	16QAM	1	1	11.05	11.03	10.88	12.5	0.0	
40	16QAM	1	1	10.98	11.13	10.92	12.5	0.0	
40	256QAM	1	1	11.41	11.04	11.16	12.5	0.0	
Channel									
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	11.05	11.17	11.12	12.5	0.0	
Channel									
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	11.17	11.24	11.19	12.5	0.0	
Channel									
Frequency (MHz)				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	10.96	11.09	11.21	12.5	0.0	
Channel									
Frequency (MHz)				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	11.15	11.45	11.35	12.5	0.0	
10	QPSK	1	1	10.98	11.14	11.28	12.5	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	11.07	11.10	11.20	12.5	0.0	



n71 Ant 4 DS17 sig path: 190

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				13600	136100	137000		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	20.99	21.01	21.01		
20	PI/2 BPSK	1	53	21.04	20.96	21.01	22.0	0.0
20	PI/2 BPSK	1	104	20.97	21.03	21.02		
20	PI/2 BPSK	50	0	20.97	21.03	21.02	22.0	0.0
20	PI/2 BPSK	50	28	21.03	21.04	21.04	22.0	0.0
20	PI/2 BPSK	50	56	21.02	20.96	20.96	22.0	0.0
20	PI/2 BPSK	100	0	21.04	21.00	21.00		
20	QPSK	1	1	21.00	21.06	21.01		
20	QPSK	1	53	20.98	21.05	20.96	22.0	0.0
20	QPSK	1	104	21.02	21.01	21.01		
20	QPSK	50	0	21.03	21.01	20.96	22.0	0.0
20	QPSK	50	28	21.02	21.04	20.97	22.0	0.0
20	QPSK	50	56	21.01	20.95	20.95	22.0	0.0
20	QPSK	100	0	20.92	21.01	21.00		
20	16QAM	1	1	20.96	20.95	21.01	22.0	0.0
20	16QAM	1	1	20.18	20.30	20.25	21.5	0.5
20	256QAM	1	1	18.66	18.73	18.65	19.5	2.5
Channel				134100	135100	135100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	20.85	20.97	20.86	22.0	0.0
Channel				133600	136100	136600		
Frequency (MHz)				665	680.5	693		
10	QPSK	1	1	20.91	20.97	20.91	22.0	0.0
Channel				133100	135100	135100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	20.89	20.92	20.87	22.0	0.0



Part270 n77 Ant 5 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. @50000	Power Middle Ch. / Freq. @50000	Power High Ch. / Freq. @50000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	10.36	10.46	10.52		
100	PI2 BPSK	1	137	10.39	10.52	10.35	11.5	0.0
100	PI2 BPSK	1	271	10.21	10.30	10.26		
100	PI2 BPSK	135	0	10.40	10.44	10.33	11.5	0.0
100	PI2 BPSK	135	69	10.51	10.55	10.50	11.5	0.0
100	PI2 BPSK	135	138	10.29	10.36	10.27	11.5	0.0
100	PI2 BPSK	270	0	10.49	10.40	10.33		
100	QPSK	1	1	10.34	10.86	10.39		
100	QPSK	1	137	10.45	10.45	10.49	11.5	0.0
100	QPSK	1	271	10.48	10.65	10.47		
100	QPSK	135	0	10.30	10.55	10.33	11.5	0.0
100	QPSK	135	69	10.44	10.58	10.39	11.5	0.0
100	QPSK	135	138	10.50	10.32	10.46		
100	QPSK	270	0	10.25	10.52	10.28	11.5	0.0
100	16QAM	1	1	10.21	10.28	10.14	11.5	0.0
100	16QAM	1	1	10.30	10.40	10.18	11.5	0.0
100	256QAM	1	1	10.59	10.05	10.44	11.5	0.0
Channel								
Frequency (MHz)				64999	65000	65001		
90	QPSK	1	1	10.53	10.48	10.46	11.5	0.0
Channel								
Frequency (MHz)				649334	650000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	663000		
70	QPSK	1	1	10.36	10.49	10.41	11.5	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
60	QPSK	1	1	10.43	10.36	10.33	11.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	10.53	10.47	10.26	11.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960.01		
40	QPSK	1	1	10.39	10.48	10.35	11.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	10.40	10.49	10.39	11.5	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	10.43	10.38	10.24	11.5	0.0

Part270 n77 PC2 Ant 5 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. @50000	Power Middle Ch. / Freq. @50000	Power High Ch. / Freq. @50000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	13.44	13.51	13.50		
100	PI2 BPSK	1	137	13.41	13.57	13.28	14.5	0.0
100	PI2 BPSK	1	271	13.08	13.43	13.37		
100	PI2 BPSK	135	0	13.41	13.40	13.39	14.5	0.0
100	PI2 BPSK	135	69	13.56	13.56	13.58	14.5	0.0
100	PI2 BPSK	135	138	13.21	13.43	13.35	14.5	0.0
100	PI2 BPSK	270	0	13.52	13.56	13.29		
100	QPSK	1	1	13.52	13.72	13.88		
100	QPSK	1	137	13.41	13.28	13.45	14.5	0.0
100	QPSK	1	271	13.31	13.51	13.50		
100	QPSK	135	0	13.34	13.50	13.32	14.5	0.0
100	QPSK	135	69	13.49	13.59	13.47	14.5	0.0
100	QPSK	135	138	13.55	13.38	13.46		
100	QPSK	270	0	13.42	13.51	13.34	14.5	0.0
100	16QAM	1	1	13.25	13.38	13.32	14.5	0.0
100	16QAM	1	1	13.50	13.41	13.09	14.5	0.0
100	256QAM	1	1	13.52	13.17	13.44	14.5	0.0
Channel								
Frequency (MHz)				648668	650000	662334		
90	QPSK	1	1	13.34	13.65	13.47	14.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	13.41	13.69	13.51	14.5	0.0
Channel								
Frequency (MHz)				649000	650000	663000		
70	QPSK	1	1	13.37	13.59	13.40	14.5	0.0
Channel								
Frequency (MHz)				648668	650000	663334		
60	QPSK	1	1	13.42	13.68	13.44	14.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668		
50	QPSK	1	1	13.35	13.63	13.33	14.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	13.39	13.66	13.49	14.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334		
30	QPSK	1	1	13.52	13.69	13.41	14.5	0.0
Channel								
Frequency (MHz)				647334	650000	664668		
20	QPSK	1	1	13.41	13.60	13.51	14.5	0.0

Part27Q n77 Ant 5 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3499.98		
100	PI2 BPSK	1	1			10.09		
100	PI2 BPSK	1	137			10.09	11.5	0.0
100	PI2 BPSK	1	271			9.97		
100	PI2 BPSK	135	0			10.03	11.5	0.0
100	PI2 BPSK	135	69			10.08	11.5	0.0
100	PI2 BPSK	135	138			9.93	11.5	0.0
100	PI2 BPSK	270	0			10.09		
100	QPSK	1	1			10.17		
100	QPSK	1	137			10.00	11.5	0.0
100	QPSK	1	271			10.09		
100	QPSK	135	0			10.06	11.5	0.0
100	QPSK	135	69			10.11	11.5	0.0
100	QPSK	135	138			9.92	11.5	0.0
100	QPSK	270	0			10.07		
100	16QAM	1	1			9.81	11.5	0.0
100	16QAM	1	1			9.86	11.5	0.0
100	256QAM	1	1			9.82	11.5	0.0
Channel								
Frequency (MHz)				633000	633332	633668		
90	QPSK	1	1	10.00	10.05	10.04	11.5	0.0
Channel								
Frequency (MHz)				632668	633332	634000		
80	QPSK	1	1	3490.02	3499.98	3510		
Channel								
Frequency (MHz)				632334	633332	634332		
70	QPSK	1	1	9.87	10.06	9.93	11.5	0.0
Channel								
Frequency (MHz)				632000	633332	634668		
60	QPSK	1	1	9.95	9.98	9.91	11.5	0.0
Channel								
Frequency (MHz)				631668	633332	635000		
50	QPSK	1	1	9.90	10.03	9.86	11.5	0.0
Channel								
Frequency (MHz)				3480	3499.98	3519.99		
40	QPSK	1	1	10.05	9.86	9.90	11.5	0.0
Channel								
Frequency (MHz)				631000	633332	635668		
30	QPSK	1	1	9.97	10.00	10.02	11.5	0.0
Channel								
Frequency (MHz)				630668	633332	636000		
20	QPSK	1	1	9.83	9.93	9.94	11.5	0.0



Part27Q n77 PC2 Ant 5 DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3499.98					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	12.85	12.85	12.85			
100	PI2 BPSK	1	137	12.82	12.82	12.82	14.5	0.0	
100	PI2 BPSK	1	271	12.91	12.91	12.91	14.5	0.0	
100	PI2 BPSK	135	69	13.04	13.04	13.04	14.5	0.0	
100	PI2 BPSK	135	69	12.94	12.94	12.94	14.5	0.0	
100	PI2 BPSK	135	138	12.92	12.92	12.92	14.5	0.0	
100	PI2 BPSK	270	0	12.89	12.89	12.89	14.5	0.0	
100	QPSK	1	1	13.16	13.16	13.16	14.5	0.0	
100	QPSK	1	137	13.08	13.08	13.08	14.5	0.0	
100	QPSK	1	271	12.99	12.99	12.99	14.5	0.0	
100	QPSK	135	0	13.10	13.10	13.10	14.5	0.0	
100	QPSK	135	69	13.14	13.14	13.14	14.5	0.0	
100	QPSK	135	138	12.96	12.96	12.96	14.5	0.0	
100	QPSK	270	0	13.00	13.00	13.00	14.5	0.0	
100	16QAM	1	1	12.98	12.98	12.98	14.5	0.0	
100	16QAM	1	1	12.93	12.93	12.93	14.5	0.0	
100	256QAM	1	1	12.71	12.71	12.71	14.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	12.80	12.86	12.78	14.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	12.94	12.80	12.80	14.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	12.78	12.78	12.82	14.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	12.88	12.81	12.84	14.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	12.94	12.76	12.76	14.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	12.75	12.98	12.88	14.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	12.78	12.85	12.87	14.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	12.76	12.88	12.82	14.5	0.0	

Part27O n78 Ant 5 DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	10.53	10.53	10.53			
100	PI2 BPSK	1	137	10.50	10.50	10.50	11.5	0.0	
100	PI2 BPSK	1	271	10.51	10.51	10.51	11.5	0.0	
100	PI2 BPSK	135	0	10.48	10.48	10.48	11.5	0.0	
100	PI2 BPSK	135	69	10.60	10.60	10.60	11.5	0.0	
100	PI2 BPSK	135	138	10.62	10.62	10.62	11.5	0.0	
100	PI2 BPSK	270	0	10.74	10.74	10.74	11.5	0.0	
100	QPSK	1	1	10.75	10.75	10.75	11.5	0.0	
100	QPSK	1	137	10.69	10.69	10.69	11.5	0.0	
100	QPSK	1	271	10.70	10.70	10.70	11.5	0.0	
100	QPSK	135	0	10.85	10.85	10.85	11.5	0.0	
100	QPSK	135	69	10.71	10.71	10.71	11.5	0.0	
100	QPSK	135	138	10.80	10.80	10.80	11.5	0.0	
100	QPSK	270	0	10.87	10.87	10.87	11.5	0.0	
100	16QAM	1	1	10.44	10.44	10.44	11.5	0.0	
100	16QAM	1	1	10.51	10.51	10.51	11.5	0.0	
100	256QAM	1	1	10.35	10.35	10.35	11.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	10.64	10.66	10.68	11.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	10.64	10.72	10.71	11.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	10.60	10.72	10.69	11.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3760.01			
60	QPSK	1	1	10.59	10.70	10.71	11.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3765.02			
50	QPSK	1	1	10.54	10.59	10.65	11.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	10.65	10.56	10.59	11.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	10.72	10.74	10.55	11.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	10.61	10.63	10.59	11.5	0.0	

Part27O n78 PC2 Ant 5 DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	13.52	13.52	13.52			
100	PI2 BPSK	1	137	13.53	13.53	13.53	14.5	0.0	
100	PI2 BPSK	1	271	13.52	13.52	13.52	14.5	0.0	
100	PI2 BPSK	135	0	13.58	13.58	13.58	14.5	0.0	
100	PI2 BPSK	135	69	13.39	13.39	13.39	14.5	0.0	
100	PI2 BPSK	135	138	13.48	13.48	13.48	14.5	0.0	
100	PI2 BPSK	270	0	13.50	13.50	13.50	14.5	0.0	
100	QPSK	1	1	13.05	13.05	13.05	14.5	0.0	
100	QPSK	1	137	13.59	13.59	13.59	14.5	0.0	
100	QPSK	1	271	13.45	13.45	13.45	14.5	0.0	
100	QPSK	135	0	13.43	13.43	13.43	14.5	0.0	
100	QPSK	135	69	13.59	13.59	13.59	14.5	0.0	
100	QPSK	135	138	13.56	13.56	13.56	14.5	0.0	
100	QPSK	270	0	13.46	13.46	13.46	14.5	0.0	
100	16QAM	1	1	13.15	13.15	13.15	14.5	0.0	
100	16QAM	1	1	13.56	13.56	13.56	14.5	0.0	
100	256QAM	1	1	13.13	13.13	13.13	14.5	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.43	13.39	13.41	14.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	13.43	13.43	13.50	14.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.42	13.46	13.61	14.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3760.01			
60	QPSK	1	1	13.58	13.83	13.56	14.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3765.02			
50	QPSK	1	1	13.60	13.51	13.45	14.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.62	13.59	13.53	14.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	13.55	13.62	13.55	14.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	13.60	13.48	13.55	14.5	0.0	



Part27Q n78 Ant 5 DS17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		10.51				
100	PI2 BPSK	1	137		10.48		11.5	0.0	
100	PI2 BPSK	1	271		10.35		11.5	0.0	
100	PI2 BPSK	135	0		10.89		11.5	0.0	
100	PI2 BPSK	135	69		10.48		11.5	0.0	
100	PI2 BPSK	135	138		10.64		11.5	0.0	
100	PI2 BPSK	270	0		10.66		11.5	0.0	
100	QPSK	1	1		10.78		11.5	0.0	
100	QPSK	1	137		10.50		11.5	0.0	
100	QPSK	1	271		10.73		11.5	0.0	
100	QPSK	135	0		10.62		11.5	0.0	
100	QPSK	135	69		10.75		11.5	0.0	
100	QPSK	135	138		10.63		11.5	0.0	
100	QPSK	270	0		10.54		11.5	0.0	
100	16QAM	1	1		10.35		11.5	0.0	
100	64QAM	1	1		10.30		11.5	0.0	
100	256QAM	1	1		10.14		11.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	11.5	0.0	
90	QPSK	1	1	10.52	10.59	10.67	11.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	11.5	0.0	
80	QPSK	1	1	10.54	10.53	10.49	11.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01	11.5	0.0	
70	QPSK	1	1	10.86	10.54	10.65	11.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	11.5	0.0	
60	QPSK	1	1	10.87	10.67	10.60	11.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505	11.5	0.0	
50	QPSK	1	1	10.52	10.59	10.67	11.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	11.5	0.0	
40	QPSK	1	1	10.47	10.52	10.69	11.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	11.5	0.0	
30	QPSK	1	1	10.55	10.67	10.50	11.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	11.5	0.0	
20	QPSK	1	1	10.55	10.61	10.63	11.5	0.0	

Part27Q n78 PC2 Ant 5 DS17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		13.49				
100	PI2 BPSK	1	137		13.61		14.5	0.0	
100	PI2 BPSK	1	271		13.42		14.5	0.0	
100	PI2 BPSK	135	0		13.54		14.5	0.0	
100	PI2 BPSK	135	69		13.50		14.5	0.0	
100	PI2 BPSK	135	138		13.49		14.5	0.0	
100	PI2 BPSK	270	0		13.66		14.5	0.0	
100	QPSK	1	1		13.72		14.5	0.0	
100	QPSK	1	137		13.41		14.5	0.0	
100	QPSK	1	271		13.46		14.5	0.0	
100	QPSK	135	0		13.62		14.5	0.0	
100	QPSK	135	69		13.65		14.5	0.0	
100	QPSK	135	138		13.41		14.5	0.0	
100	QPSK	270	0		13.47		14.5	0.0	
100	16QAM	1	1		13.38		14.5	0.0	
100	64QAM	1	1		13.32		14.5	0.0	
100	256QAM	1	1		13.07		14.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	14.5	0.0	
90	QPSK	1	1	13.43	13.44	13.32	14.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	14.5	0.0	
80	QPSK	1	1	13.52	13.35	13.49	14.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486.01	3500.01	3515.01	14.5	0.0	
70	QPSK	1	1	13.52	13.50	13.39	14.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	14.5	0.0	
60	QPSK	1	1	13.48	13.44	13.51	14.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505	14.5	0.0	
50	QPSK	1	1	13.54	13.33	13.32	14.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	14.5	0.0	
40	QPSK	1	1	13.44	13.55	13.56	14.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	14.5	0.0	
30	QPSK	1	1	13.44	13.34	13.39	14.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	14.5	0.0	
20	QPSK	1	1	13.51	13.54	13.43	14.5	0.0	



Full&Default Power Mode Other PA

n2 Ant 0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	21.58	21.86	21.84			
20	PI/2 BPSK	1	53	21.41	21.61	21.81	23.0	0.0	
20	PI/2 BPSK	1	104	21.43	21.59	21.42			
20	PI/2 BPSK	50	0	21.17	21.34	21.18	22.5	0.5	
20	PI/2 BPSK	50	28	21.48	21.84	21.82	23.0	0.0	
20	PI/2 BPSK	50	56	21.25	21.25	21.22	22.5	0.5	
20	PI/2 BPSK	100	0	21.36	21.37	21.27			
20	QPSK	1	1	21.83	21.71	21.67			
20	QPSK	1	53	21.50	21.84	21.51	23.0	0.0	
20	QPSK	1	104	21.48	21.87	21.58			
20	QPSK	50	0	20.72	20.79	20.73	22.0	1.0	
20	QPSK	50	28	21.59	21.65	21.53	23.0	0.0	
20	QPSK	50	56	20.58	20.78	20.75			
20	QPSK	100	0	20.72	20.84	20.82	22.0	1.0	
20	16QAM	1	1	20.83	20.87	20.77	22.0	1.0	
20	64QAM	1	1	19.12	19.29	19.17	20.5	2.5	
20	256QAM	1	1	17.15	17.32	17.14	18.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.52	21.59	21.53	23.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	21.51	21.83	21.40	23.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1859.5	1880	1907.5			
5	QPSK	1	1	21.31	21.42	21.36	23.0	0.0	

n25 Ant 0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1892.5	1905			
40	PI/2 BPSK	1	1	21.68	21.80	21.75			
40	PI/2 BPSK	1	108	21.32	21.41	21.34	23.0	0.0	
40	PI/2 BPSK	1	214	21.11	21.18	21.18			
40	PI/2 BPSK	108	0	21.05	21.23	21.18	22.5	0.5	
40	PI/2 BPSK	108	54	21.16	21.32	21.18	23.0	0.0	
40	PI/2 BPSK	108	108	20.59	20.71	20.59	22.5	0.5	
40	PI/2 BPSK	216	0	20.98	21.02	20.84			
40	QPSK	1	1	21.75	21.92	21.70			
40	QPSK	1	108	21.29	21.38	21.18	23.0	0.0	
40	QPSK	1	214	21.22	21.18	21.04			
40	QPSK	108	0	20.64	20.83	20.64	22.0	1.0	
40	QPSK	108	54	21.37	21.38	21.28	23.0	0.0	
40	QPSK	108	108	20.05	20.22	20.04			
40	QPSK	216	0	20.65	20.82	20.79	22.0	1.0	
40	16QAM	1	1	21.00	21.07	20.88	22.0	1.0	
40	64QAM	1	1	18.93	19.10	18.98	20.5	2.5	
40	256QAM	1	1	17.59	17.65	17.46	18.5	4.5	
Channel				373000	376500	380000			
Frequency (MHz)				1865	1892.5	1900			
30	QPSK	1	1	21.63	21.77	21.51	23.0	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1862.5	1892.5	1902.5			
25	QPSK	1	1	21.63	21.73	21.53	23.0	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1892.5	1905			
20	QPSK	1	1	21.73	21.82	21.56	23.0	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1892.5	1907.5			
15	QPSK	1	1	21.62	21.85	21.58	23.0	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1892.5	1910			
10	QPSK	1	1	21.88	21.81	21.59	23.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1892.5	1912.5			
5	QPSK	1	1	21.67	21.76	21.52	23.0	0.0	



n66 Ant 0 Default sig path: 184

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
40	PI/2 BPSK	1	1	22.12	22.18	22.10	23.0	0.0
40	PI/2 BPSK	1	108	22.07	22.14	22.02		
40	PI/2 BPSK	1	214	22.06	22.11	22.00		
40	PI/2 BPSK	108	0	21.59	21.67	21.55	22.5	0.5
40	PI/2 BPSK	108	54	22.11	22.16	22.05	23.0	0.0
40	PI/2 BPSK	108	108	21.55	21.67	21.60	22.5	0.5
40	PI/2 BPSK	216	0	21.60	21.70	21.64		
40	QPSK	1	1	22.20	22.25	22.14		
40	QPSK	1	108	22.11	22.16	22.02	23.0	0.0
40	QPSK	1	214	22.04	22.12	22.02		
40	QPSK	108	0	21.13	21.21	21.15		
40	QPSK	108	54	22.01	22.11	22.03	23.0	1.0
40	QPSK	108	108	21.16	21.19	21.11	22.0	1.0
40	QPSK	216	0	21.12	21.21	21.17		
40	16QAM	1	1	21.40	21.51	21.40		
40	64QAM	1	1	19.50	19.57	19.48	20.5	2.5
40	256QAM	1	1	17.73	17.82	17.68	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	22.14	22.19	22.08	23.0	0.0
Channel				346000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	22.07	22.15	22.06	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	22.10	22.11	22.05	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	22.10	22.17	22.01	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	22.03	22.13	22.07	23.0	0.0

n66 Ant 0 Default sig path: 460

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
40	PI/2 BPSK	1	1	22.08	22.21	22.10	23.0	0.0
40	PI/2 BPSK	1	108	22.02	22.10	22.04		
40	PI/2 BPSK	1	214	22.08	22.09	22.06		
40	PI/2 BPSK	108	0	21.52	21.71	21.58	22.5	0.5
40	PI/2 BPSK	108	54	22.05	22.19	22.16	23.0	0.0
40	PI/2 BPSK	108	108	21.55	21.55	21.57	22.5	0.5
40	PI/2 BPSK	216	0	21.57	21.59	21.64		
40	QPSK	1	1	22.15	22.25	22.18		
40	QPSK	1	108	22.01	22.12	22.10	23.0	0.0
40	QPSK	1	214	22.07	22.06	22.03		
40	QPSK	108	0	21.22	21.28	21.15		
40	QPSK	108	54	22.01	22.14	22.10	23.0	0.0
40	QPSK	108	108	20.94	21.01	20.86	22.0	1.0
40	QPSK	216	0	21.08	21.08	21.05		
40	16QAM	1	1	21.28	21.32	21.19		
40	64QAM	1	1	19.59	19.77	19.77	20.5	2.5
40	256QAM	1	1	17.66	17.72	17.64	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	22.11	22.09	22.13	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	22.09	22.12	22.16	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	22.12	22.08	22.10	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	22.02	22.22	22.11	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	22.14	22.09	22.13	23.0	0.0



n2 Ant 4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq (dBm)	Power Middle Ch / Freq (dBm)	Power High Ch / Freq (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	23.07	23.11	23.05			
20	PI/2 BPSK	1	53	22.97	23.08	23.00	24.0	0.0	
20	PI/2 BPSK	1	104	22.73	22.85	22.73			
20	PI/2 BPSK	50	0	22.38	22.48	22.42	23.5	0.5	
20	PI/2 BPSK	50	28	22.94	23.04	22.93	24.0	0.0	
20	PI/2 BPSK	50	56	22.30	22.43	22.34	23.5	0.5	
20	PI/2 BPSK	100	0	22.47	22.54	22.42			
20	QPSK	1	1	23.11	23.17	23.09			
20	QPSK	1	53	23.07	23.12	23.03	24.0	0.0	
20	QPSK	1	104	22.85	22.79	22.74			
20	QPSK	50	0	22.13	22.19	22.09	23.0	1.0	
20	QPSK	50	28	23.00	23.08	22.96	24.0	0.0	
20	QPSK	80	56	21.91	22.02	21.86	23.0	1.0	
20	QPSK	100	0	22.01	22.08	21.96			
20	16QAM	1	1	22.10	22.21	22.10	23.0	1.0	
20	16QAM	1	1	20.44	20.65	20.41	21.5	2.5	
20	256QAM	1	1	18.74	18.79	18.65	19.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.97	23.06	22.97	24.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	23.00	23.09	23.02	24.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	23.00	23.05	23.03	24.0	0.0	

n25 Ant 4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq (dBm)	Power Middle Ch / Freq (dBm)	Power High Ch / Freq (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				1870	1882.5	1895			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	23.28	23.33	23.17			
40	PI/2 BPSK	1	108	22.89	22.96	22.77	24.0	0.0	
40	PI/2 BPSK	1	214	22.79	22.84	22.75			
40	PI/2 BPSK	108	0	22.59	22.74	22.67	23.5	0.5	
40	PI/2 BPSK	108	54	22.81	22.88	22.69	24.0	0.0	
40	PI/2 BPSK	108	108	22.36	22.41	22.21	23.5	0.5	
40	PI/2 BPSK	216	0	22.30	22.49	22.41			
40	QPSK	1	1	22.96	23.38	23.25			
40	QPSK	1	108	22.78	22.89	22.70	24.0	0.0	
40	QPSK	1	214	22.86	22.78	22.66			
40	QPSK	108	0	22.19	22.26	22.14	23.0	1.0	
40	QPSK	108	54	23.01	23.17	23.08	24.0	0.0	
40	QPSK	108	108	21.70	21.79	21.74	23.0	1.0	
40	QPSK	216	0	21.95	22.07	22.06			
40	16QAM	1	1	22.33	22.52	22.39	23.0	1.0	
40	16QAM	1	1	20.42	20.60	20.50	21.5	2.5	
40	256QAM	1	1	19.06	19.12	19.10	19.5	4.5	
Channel				372000	376500	381000			
Frequency (MHz)				1885	1882.5	1900			
30	QPSK	1	1	22.79	23.21	23.13	24.0	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1882.5	1882.5	1902.5			
25	QPSK	1	1	22.91	23.29	23.20	24.0	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1880	1882.5	1905			
20	QPSK	1	1	22.96	23.26	23.18	24.0	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1877.5	1882.5	1897.5			
15	QPSK	1	1	22.84	23.23	23.17	24.0	0.0	
Channel				371000	376500	380500			
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.81	23.21	23.15	24.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.81	23.20	23.07	24.0	0.0	



n66 Ant 4 Default sig: 184							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	22.80	22.89	22.82	
40	PI2 BPSK	1	108	22.72	22.82	22.87	0.0
40	PI2 BPSK	1	214	22.84	22.73	22.99	
40	PI2 BPSK	108	0	22.36	22.51	22.39	23.5 0.5
40	PI2 BPSK	108	54	22.70	22.81	22.71	24.0 0.0
40	PI2 BPSK	108	108	22.34	22.41	22.33	23.5 0.5
40	PI2 BPSK	216	0	22.36	22.46	22.35	
40	QPSK	1	1	22.87	22.92	22.85	
40	QPSK	1	108	22.74	22.88	22.81	24.0 0.0
40	QPSK	1	214	22.73	22.79	22.67	
40	QPSK	108	0	21.89	21.94	21.90	23.0 1.0
40	QPSK	108	54	22.72	22.87	22.79	24.0 0.0
40	QPSK	108	108	21.74	21.86	21.78	23.0 1.0
40	QPSK	216	0	21.83	21.93	21.78	
40	16QAM	1	1	22.03	22.17	22.09	23.0 1.0
40	64QAM	1	1	20.47	20.58	20.47	21.5 2.5
40	256QAM	1	1	18.38	18.43	18.36	19.5 4.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.76	22.87	22.73	24.0 0.0
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.74	22.81	22.74	24.0 0.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	22.78	22.88	22.77	24.0 0.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.76	22.77	22.74	24.0 0.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.73	22.78	22.71	24.0 0.0

n66 Ant 4 Default sig path: 460							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	22.31	22.38	22.31	
40	PI2 BPSK	1	108	22.17	22.29	22.11	24.0 0.0
40	PI2 BPSK	1	214	22.09	22.18	22.10	
40	PI2 BPSK	108	0	21.71	21.87	21.72	23.5 0.5
40	PI2 BPSK	108	54	22.07	22.14	22.05	24.0 0.0
40	PI2 BPSK	108	108	21.74	21.78	21.76	23.5 0.5
40	PI2 BPSK	216	0	21.86	21.91	21.79	
40	QPSK	1	1	22.22	22.41	22.32	
40	QPSK	1	108	22.13	22.28	22.15	24.0 0.0
40	QPSK	1	214	22.04	22.13	22.13	
40	QPSK	108	0	21.39	21.44	21.27	23.0 1.0
40	QPSK	108	54	22.10	22.22	22.10	24.0 0.0
40	QPSK	108	108	21.17	21.24	21.21	23.0 1.0
40	QPSK	216	0	21.19	21.28	21.12	
40	16QAM	1	1	21.40	21.44	21.37	23.0 1.0
40	64QAM	1	1	19.88	19.95	19.83	21.5 2.5
40	256QAM	1	1	17.89	18.05	17.88	19.5 4.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.16	22.31	22.25	24.0 0.0
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.12	22.26	22.24	24.0 0.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	22.20	22.24	22.28	24.0 0.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.17	22.37	22.25	24.0 0.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.15	22.34	22.19	24.0 0.0



Reduced Power Mode for Other PA DSIZ Standalone

n2 Ant 0 DSIZ sig path: 166							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				37200	37600	38000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.58	21.66	21.64	
20	PI/2 BPSK	1	53	21.41	21.61	21.61	23.0
20	PI/2 BPSK	1	104	21.43	21.59	21.42	
20	PI/2 BPSK	50	0	21.17	21.34	21.16	22.5
20	PI/2 BPSK	50	28	21.48	21.64	21.62	23.0
20	PI/2 BPSK	50	56	21.25	21.25	21.22	22.5
20	PI/2 BPSK	100	0	21.36	21.37	21.27	
20	QPSK	1	1	21.63	21.71	21.67	
20	QPSK	1	53	21.50	21.64	21.51	23.0
20	QPSK	1	104	21.48	21.67	21.58	
20	QPSK	50	0	20.72	20.79	20.73	22.0
20	QPSK	50	28	21.59	21.65	21.53	23.0
20	QPSK	50	56	20.58	20.78	20.75	22.0
20	QPSK	100	0	20.72	20.84	20.82	22.0
20	16QAM	1	1	20.83	20.87	20.77	22.0
20	16QAM	1	1	19.12	19.29	19.17	20.5
20	256QAM	1	1	17.15	17.32	17.14	18.5
Channel				37650	37650	38050	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	23.0
15	QPSK	1	1	21.52	21.59	21.33	23.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	MPR (dB)
10	QPSK	1	1	21.51	21.63	21.40	23.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	MPR (dB)
5	QPSK	1	1	21.31	21.42	21.36	23.0

n25 Ant 0 DSIZ sig path: 167							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				37400	37600	37800	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.68	21.80	21.75	
40	PI/2 BPSK	1	108	21.32	21.41	21.34	23.0
40	PI/2 BPSK	1	214	21.11	21.18	21.16	
40	PI/2 BPSK	108	0	21.05	21.23	21.18	22.5
40	PI/2 BPSK	108	54	21.16	21.32	21.18	23.0
40	PI/2 BPSK	108	108	20.58	20.71	20.59	22.5
40	PI/2 BPSK	216	0	20.98	21.02	20.84	
40	QPSK	1	1	21.75	21.82	21.70	
40	QPSK	1	108	21.29	21.38	21.18	23.0
40	QPSK	1	214	21.22	21.18	21.04	
40	QPSK	108	0	20.64	20.83	20.84	22.0
40	QPSK	108	54	21.37	21.38	21.28	23.0
40	QPSK	108	108	20.05	20.22	20.04	22.0
40	QPSK	216	0	20.85	20.82	20.78	22.0
40	16QAM	1	1	21.00	21.07	20.88	22.0
40	16QAM	1	1	18.93	19.10	18.88	20.5
40	256QAM	1	1	17.58	17.65	17.48	18.5
Channel				372000	376500	380800	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	MPR (dB)
30	QPSK	1	1	21.63	21.77	21.51	23.0
Channel				372500	376900	380600	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	MPR (dB)
25	QPSK	1	1	21.63	21.73	21.53	23.0
Channel				372000	376900	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	MPR (dB)
20	QPSK	1	1	21.73	21.82	21.56	23.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	MPR (dB)
15	QPSK	1	1	21.62	21.85	21.58	23.0
Channel				371000	376900	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	MPR (dB)
10	QPSK	1	1	21.68	21.81	21.59	23.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	MPR (dB)
5	QPSK	1	1	21.67	21.78	21.52	23.0



n66 Ant 0 DSI2 sig path: 184								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.12	22.18	22.10		
40	PI2 BPSK	1	108	22.07	22.14	22.02	23.0	0.0
40	PI2 BPSK	1	214	22.06	22.11	22.00		
40	PI2 BPSK	108	0	21.08	21.87	21.55	22.5	0.5
40	PI2 BPSK	108	54	22.11	22.16	22.05	23.0	0.0
40	PI2 BPSK	108	108	21.55	21.67	21.60	22.5	0.5
40	PI2 BPSK	216	0	21.80	21.70	21.64		
40	QPSK	1	1	22.20	22.25	22.14		
40	QPSK	1	108	22.11	22.16	22.02	23.0	0.0
40	QPSK	1	214	22.04	22.12	22.02		
40	QPSK	108	0	21.13	21.21	21.15	22.0	1.0
40	QPSK	108	54	22.01	22.11	22.03	23.0	0.0
40	QPSK	108	108	21.16	21.18	21.12	22.0	1.0
40	QPSK	216	0	21.12	21.21	21.17		
40	16QAM	1	1	21.40	21.51	21.40	22.0	1.0
40	64QAM	1	1	19.50	19.57	19.48	20.5	2.5
40	256QAM	1	1	17.73	17.82	17.68	18.5	4.5
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.14	22.19	22.08	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.07	22.15	22.08	23.0	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.10	22.11	22.05	23.0	0.0
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.10	22.17	22.01	23.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.03	22.13	22.07	23.0	0.0

n66 Ant 0 DSI2 sig path: 460								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.08	22.21	22.10		
40	PI2 BPSK	1	108	22.02	22.10	22.04	23.0	0.0
40	PI2 BPSK	1	214	22.06	22.98	22.08		
40	PI2 BPSK	108	0	21.52	21.71	21.50	22.5	0.5
40	PI2 BPSK	108	54	22.05	22.19	22.16	23.0	0.0
40	PI2 BPSK	108	108	21.56	21.55	21.57	22.5	0.5
40	PI2 BPSK	216	0	21.57	21.59	21.54		
40	QPSK	1	1	22.15	22.25	22.18		
40	QPSK	1	108	22.01	22.12	22.10	23.0	0.0
40	QPSK	1	214	22.07	22.08	22.03		
40	QPSK	108	0	21.22	21.28	21.15	22.0	1.0
40	QPSK	108	54	22.01	22.14	22.10	23.0	0.0
40	QPSK	108	108	21.02	21.07	21.08	22.0	1.0
40	QPSK	216	0	21.08	21.08	21.05		
40	16QAM	1	1	21.28	21.32	21.19	22.0	1.0
40	64QAM	1	1	19.59	19.77	19.77	20.5	2.5
40	256QAM	1	1	17.88	17.72	17.64	18.5	4.5
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.11	22.09	22.13	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.09	22.12	22.16	23.0	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.12	22.06	22.10	23.0	0.0
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.02	22.22	22.11	23.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.14	22.09	22.13	23.0	0.0



n2 Ant 4 DSI2 sig path: 166								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1880	1900		
Frequency (MHz)				1860	1880	1900		
20	Pl/2 BPSK	1	1	18.14	18.09	18.15		
20	Pl/2 BPSK	1	53	18.08	18.10	18.04	18.5	0.0
20	Pl/2 BPSK	1	104	17.89	18.18	17.96		
20	Pl/2 BPSK	50	0	17.97	18.13	17.99	18.5	0.0
20	Pl/2 BPSK	50	28	18.13	17.97	17.99	18.5	0.0
20	Pl/2 BPSK	50	56	17.83	17.99	18.01	18.5	0.0
20	Pl/2 BPSK	100	0	18.06	18.19	17.93		
20	QPSK	1	1	18.18	18.23	18.20		
20	QPSK	1	53	17.93	18.10	18.08	18.5	0.0
20	QPSK	1	104	17.98	17.98	17.93		
20	QPSK	50	0	17.92	18.05	18.12	18.5	0.0
20	QPSK	50	28	18.14	18.20	18.11	18.5	0.0
20	QPSK	80	56	18.12	18.10	18.10	18.5	0.0
20	QPSK	100	0	18.10	18.17	18.09	18.5	0.0
20	16QAM	1	1	17.85	17.98	18.02	18.5	0.0
20	64QAM	1	1	18.10	18.10	18.03	18.5	0.0
20	256QAM	1	1	17.93	18.17	17.87	18.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				371500	3800	1902.5	18.5	0.0
15	QPSK	1	1	18.11	18.05	18.03	18.5	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1890	1905	(dBm)	(dB)
10	QPSK	1	1	18.00	18.21	18.04	18.5	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	18.15	18.14	18.07	18.5	0.0

n25 Ant 4 DSI2 sig path: 167								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				1870	1882.5	1895		
Frequency (MHz)				1870	1882.5	1895		
40	Pl/2 BPSK	1	1	18.20	18.27	18.31		
40	Pl/2 BPSK	1	108	18.08	18.27	18.23	18.5	0.0
40	Pl/2 BPSK	1	214	18.08	18.32	18.15		
40	Pl/2 BPSK	108	0	18.09	18.29	18.18	18.5	0.0
40	Pl/2 BPSK	108	54	18.20	18.00	18.11	18.5	0.0
40	Pl/2 BPSK	108	108	17.86	18.12	18.07	18.5	0.0
40	Pl/2 BPSK	216	0	18.24	18.20	17.98		
40	QPSK	1	1	18.33	18.38	18.29		
40	QPSK	1	108	18.12	18.28	18.11	18.5	0.0
40	QPSK	1	214	18.12	18.01	17.99		
40	QPSK	108	0	17.93	18.09	18.31	18.5	0.0
40	QPSK	108	54	18.31	18.35	18.22	18.5	0.0
40	QPSK	108	108	18.13	18.17	18.19	18.5	0.0
40	QPSK	216	0	18.21	18.22	18.17	18.5	0.0
40	16QAM	1	1	18.04	18.08	18.03	18.5	0.0
40	64QAM	1	1	18.11	18.17	18.08	18.5	0.0
40	256QAM	1	1	18.13	18.29	17.93	18.5	0.0
Channel				372000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1895	1882.5	1900	(dBm)	(dB)
30	QPSK	1	1	18.24	18.28	18.28	18.5	0.0
Channel				372500	376000	380600	Tune-up limit	MPR
Frequency (MHz)				1892.5	1892.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	18.10	18.23	18.23	18.5	0.0
Channel				372000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1890	1882.5	1905	(dBm)	(dB)
20	QPSK	1	1	18.23	18.28	18.19	18.5	0.0
Channel				371500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1887.5	1882.5	1897.5	(dBm)	(dB)
15	QPSK	1	1	18.28	18.25	18.23	18.5	0.0
Channel				371000	376000	382000	Tune-up limit	MPR
Frequency (MHz)				1855	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	18.27	18.20	18.19	18.5	0.0
Channel				370500	376000	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	18.24	18.30	18.18	18.5	0.0



n66 Ant 4 DSI2 sig path: 184							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	17.32	17.27	17.31	
40	PI2 BPSK	1	108	17.29	17.29	17.22	0.0
40	PI2 BPSK	1	214	17.09	17.30	17.08	
40	PI2 BPSK	108	0	17.29	17.18	17.11	18.0
40	PI2 BPSK	108	54	17.28	17.19	17.28	0.0
40	PI2 BPSK	108	108	17.11	17.09	17.21	18.0
40	PI2 BPSK	216	0	17.25	17.33	17.22	
40	QPSK	1	1	17.32	17.37	17.23	
40	QPSK	1	108	17.16	17.24	17.25	18.0
40	QPSK	1	214	17.06	17.11	17.19	
40	QPSK	108	0	17.10	17.22	17.29	18.0
40	QPSK	108	54	17.31	17.35	17.28	0.0
40	QPSK	108	108	17.28	17.26	17.28	18.0
40	QPSK	216	0	17.26	17.33	17.30	0.0
40	16QAM	1	1	17.15	17.12	17.28	0.0
40	64QAM	1	1	17.27	17.30	17.12	18.0
40	256QAM	1	1	17.23	17.30	17.22	0.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	17.21	17.38	17.04	18.0
Channel				344000	349000	354000	Tune-up limit MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	17.33	17.25	17.15	18.0
Channel				343000	349000	354000	Tune-up limit MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	17.29	17.19	17.08	18.0
Channel				343000	349000	355000	Tune-up limit MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	17.33	17.32	17.14	18.0
Channel				342500	349000	355000	Tune-up limit MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	17.34	17.35	17.18	18.0

n66 Ant 4 DSI2 sig path: 460							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	16.88	16.76	16.73	
40	PI2 BPSK	1	108	16.73	16.70	16.69	18.0
40	PI2 BPSK	1	214	16.61	16.92	16.80	
40	PI2 BPSK	108	0	16.88	16.62	16.70	18.0
40	PI2 BPSK	108	54	16.81	16.78	16.73	18.0
40	PI2 BPSK	108	108	16.58	16.57	16.78	18.0
40	PI2 BPSK	216	0	16.75	16.76	16.77	
40	QPSK	1	1	16.62	16.94	16.83	
40	QPSK	1	108	16.60	16.66	16.76	18.0
40	QPSK	1	214	16.62	16.70	16.64	
40	QPSK	108	0	16.64	16.62	16.77	18.0
40	QPSK	108	54	16.88	16.91	16.87	18.0
40	QPSK	108	108	16.83	16.80	16.70	18.0
40	QPSK	216	0	16.80	16.85	16.84	0.0
40	16QAM	1	1	16.70	16.60	16.69	18.0
40	64QAM	1	1	16.79	16.84	16.63	18.0
40	256QAM	1	1	16.68	16.83	16.66	18.0
Channel				345000	349000	353000	Tune-up limit MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	16.62	16.85	16.78	18.0
Channel				344000	349000	354000	Tune-up limit MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	16.68	16.76	16.82	18.0
Channel				343000	349000	354000	Tune-up limit MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	16.67	16.89	16.68	18.0
Channel				343000	349000	355000	Tune-up limit MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	16.76	16.86	16.70	18.0
Channel				342500	349000	355000	Tune-up limit MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	16.80	16.75	16.73	18.0



Reduced Power Mode for Other PA DS12 ENDC

n2 Ant 0 DS12 sig path: 166									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	21.58	21.86	21.84			
20	PI2 BPSK	1	53	21.41	21.81	21.81	23.0	0.0	
20	PI2 BPSK	1	104	21.43	21.59	21.42			
20	PI2 BPSK	50	0	21.17	21.34	21.16	22.5	0.5	
20	PI2 BPSK	50	28	21.48	21.54	21.62	23.0	0.0	
20	PI2 BPSK	50	56	21.25	21.25	21.22			
20	PI2 BPSK	100	0	21.36	21.37	21.27	22.5	0.5	
20	QPSK	1	1	21.63	21.71	21.67			
20	QPSK	1	53	21.59	21.84	21.51	23.0	0.0	
20	QPSK	1	104	21.48	21.57	21.58			
20	QPSK	50	0	20.72	20.79	20.73	22.0	1.0	
20	QPSK	50	28	21.59	21.65	21.53	23.0	0.0	
20	QPSK	50	56	20.58	20.78	20.75			
20	QPSK	100	0	20.72	20.84	20.82	22.0	1.0	
20	16QAM	1	1	20.83	20.97	20.77	22.0	1.0	
20	64QAM	1	1	19.12	19.29	19.17	20.5	2.5	
20	256QAM	1	1	17.15	17.32	17.14	18.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	21.52	21.59	21.33	23.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.51	21.63	21.40	23.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	21.31	21.42	21.36	23.0	0.0	

n25 Ant 0 DS12 sig path: 167									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376000	378000			
Frequency (MHz)				1890	1892.5	1895			
40	PI2 BPSK	1	1	21.68	21.80	21.75			
40	PI2 BPSK	1	108	21.32	21.41	21.34	23.0	0.0	
40	PI2 BPSK	1	214	21.11	21.18	21.18			
40	PI2 BPSK	108	0	21.05	21.23	21.18	22.5	0.5	
40	PI2 BPSK	108	54	21.16	21.32	21.18	23.0	0.0	
40	PI2 BPSK	108	108	20.59	20.71	20.59			
40	PI2 BPSK	216	0	20.98	21.02	20.84	22.5	0.5	
40	QPSK	1	1	21.75	21.92	21.70			
40	QPSK	1	108	21.29	21.38	21.18	23.0	0.0	
40	QPSK	1	214	21.22	21.18	21.04			
40	QPSK	108	0	20.64	20.83	20.64	22.0	1.0	
40	QPSK	108	54	21.37	21.38	21.28	23.0	0.0	
40	QPSK	108	108	20.05	20.22	20.04			
40	QPSK	216	0	20.65	20.62	20.79	22.0	1.0	
40	16QAM	1	1	21.00	21.07	20.88	22.0	1.0	
40	64QAM	1	1	18.93	19.10	18.98	20.5	2.5	
40	256QAM	1	1	17.59	17.65	17.46	18.5	4.5	
Channel				373000	376000	380000			
Frequency (MHz)				1885	1892.5	1900			
30	QPSK	1	1	21.63	21.77	21.51	23.0	0.0	
Channel				372500	376000	380500			
Frequency (MHz)				1882.5	1892.5	1902.5			
25	QPSK	1	1	21.63	21.73	21.53	23.0	0.0	
Channel				372000	376000	381000			
Frequency (MHz)				1880	1892.5	1905			
20	QPSK	1	1	21.73	21.82	21.58	23.0	0.0	
Channel				371500	376000	381500			
Frequency (MHz)				1877.5	1892.5	1907.5			
15	QPSK	1	1	21.62	21.85	21.58	23.0	0.0	
Channel				371000	376000	382000			
Frequency (MHz)				1885	1892.5	1910			
10	QPSK	1	1	21.88	21.81	21.59	23.0	0.0	
Channel				370500	376000	382500			
Frequency (MHz)				1882.5	1892.5	1912.5			
5	QPSK	1	1	21.67	21.76	21.52	23.0	0.0	



n66 Ant 0 DS12 sig path: 184

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349500	353000		
Frequency (MHz)				1725	1745	1765		
40	PI2 BPSK	1	1	22.12	22.18	22.10	23.0	0.0
40	PI2 BPSK	1	108	22.07	22.14	22.02		
40	PI2 BPSK	1	214	22.06	22.11	22.00		
40	PI2 BPSK	108	0	21.59	21.67	21.55	22.5	0.5
40	PI2 BPSK	108	54	22.11	22.16	22.05	23.0	0.0
40	PI2 BPSK	108	108	21.55	21.67	21.60	22.5	0.5
40	PI2 BPSK	216	0	21.60	21.70	21.64		
40	QPSK	1	1	22.20	22.25	22.14		
40	QPSK	1	108	22.11	22.16	22.02	23.0	0.0
40	QPSK	1	214	22.04	22.12	22.02		
40	QPSK	108	0	21.13	21.21	21.15		
40	QPSK	108	54	22.01	22.11	22.03	22.0	1.0
40	QPSK	108	108	21.16	21.20	21.12	22.0	1.0
40	QPSK	216	0	21.12	21.21	21.17		
40	16QAM	1	1	21.40	21.51	21.40		
40	64QAM	1	1	19.50	19.57	19.48	20.5	2.5
40	256QAM	1	1	17.73	17.82	17.68	18.5	4.5
Channel				345000	349500	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.14	22.19	22.08	23.0	0.0
Channel				346000	349500	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.07	22.15	22.06	23.0	0.0
Channel				345000	349500	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.10	22.11	22.05	23.0	0.0
Channel				343000	349500	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.10	22.17	22.01	23.0	0.0
Channel				342500	349500	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.03	22.13	22.07	23.0	0.0

n66 Ant 0 DS12 sig path: 460

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349500	353000		
Frequency (MHz)				1725	1745	1765		
40	PI2 BPSK	1	1	22.08	22.21	22.10	23.0	0.0
40	PI2 BPSK	1	108	22.02	22.10	22.04		
40	PI2 BPSK	1	214	22.08	22.09	22.06		
40	PI2 BPSK	108	0	21.52	21.71	21.56	22.5	0.5
40	PI2 BPSK	108	54	22.05	22.19	22.16	22.5	0.5
40	PI2 BPSK	108	108	21.56	21.55	21.57		
40	PI2 BPSK	216	0	21.57	21.59	21.54		
40	QPSK	1	1	22.15	22.25	22.18	23.0	0.0
40	QPSK	1	108	22.01	22.12	22.10		
40	QPSK	1	214	22.07	22.08	22.03		
40	QPSK	108	0	21.22	21.28	21.15	22.0	1.0
40	QPSK	108	54	22.01	22.14	22.10	22.0	1.0
40	QPSK	108	108	21.00	21.01	20.96		
40	QPSK	216	0	21.08	21.09	21.05		
40	16QAM	1	1	21.28	21.32	21.16	22.0	1.0
40	64QAM	1	1	19.59	19.77	19.77	20.5	2.5
40	256QAM	1	1	17.66	17.72	17.64	18.5	4.5
Channel				345000	349500	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722	1745	1765		
30	QPSK	1	1	22.11	22.09	22.13	23.0	0.0
Channel				344000	349500	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.09	22.12	22.16	23.0	0.0
Channel				343500	349500	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.12	22.08	22.10	23.0	0.0
Channel				343000	349500	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.02	22.02	22.11	23.0	0.0
Channel				342500	349500	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.14	22.09	22.13	23.0	0.0



n2 Ant 4 DSI2 sig path: 166									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				1860	1880	1900			
20	Pl/2 BPSK	1	1	18.14	18.09	18.15			
20	Pl/2 BPSK	1	53	18.08	18.10	18.04	19.0	0.0	
20	Pl/2 BPSK	1	104	17.89	18.18	17.96			
20	Pl/2 BPSK	50	0	17.97	18.13	17.99	19.0	0.0	
20	Pl/2 BPSK	50	28	18.13	17.97	17.99	19.0	0.0	
20	Pl/2 BPSK	50	56	17.83	17.99	18.01	19.0	0.0	
20	Pl/2 BPSK	100	0	18.06	18.19	17.93			
20	QPSK	1	1	18.18	18.23	18.20			
20	QPSK	1	53	17.93	18.10	18.08	19.0	0.0	
20	QPSK	1	104	17.98	17.98	17.93			
20	QPSK	50	0	17.92	18.05	18.12	19.0	0.0	
20	QPSK	50	28	18.14	18.20	18.11	19.0	0.0	
20	QPSK	80	56	18.12	18.10	18.10	19.0	0.0	
20	QPSK	100	0	18.10	18.17	18.09	19.0	0.0	
20	16QAM	1	1	17.85	17.98	18.02	19.0	0.0	
20	64QAM	1	1	18.10	18.10	18.03	19.0	0.0	
20	256QAM	1	1	17.93	18.17	17.87	19.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				371500	376000	380500			
15	QPSK	1	1	18.11	18.05	18.03	19.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	18.00	18.21	18.04	19.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				370500	376000	381500			
5	QPSK	1	1	18.15	18.14	18.07	19.0	0.0	

n25 Ant 4 DSI2 sig path: 167									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				1870	1882.5	1895			
Frequency (MHz)				1870	1882.5	1895			
40	Pl/2 BPSK	1	1	18.20	18.27	18.31			
40	Pl/2 BPSK	1	108	18.08	18.27	18.23	19.0	0.0	
40	Pl/2 BPSK	1	214	18.08	18.32	18.15			
40	Pl/2 BPSK	108	0	18.09	18.29	18.18	19.0	0.0	
40	Pl/2 BPSK	108	54	18.20	18.00	18.11	19.0	0.0	
40	Pl/2 BPSK	108	108	17.86	18.12	18.07	19.0	0.0	
40	Pl/2 BPSK	216	0	18.24	18.20	17.98			
40	QPSK	1	1	18.33	18.38	18.29			
40	QPSK	1	108	18.12	18.28	18.11	19.0	0.0	
40	QPSK	1	214	18.12	18.01	17.99			
40	QPSK	108	0	17.93	18.09	18.31	19.0	0.0	
40	QPSK	108	54	18.31	18.35	18.22	19.0	0.0	
40	QPSK	108	108	18.13	18.17	18.19	19.0	0.0	
40	QPSK	216	0	18.21	18.22	18.17	19.0	0.0	
40	16QAM	1	1	18.04	18.08	18.03	19.0	0.0	
40	64QAM	1	1	18.11	18.17	18.08	19.0	0.0	
40	256QAM	1	1	18.13	18.29	17.83	19.0	0.0	
Channel				372000	376500	380800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				372000	376500	380800			
30	QPSK	1	1	18.24	18.28	18.28	19.0	0.0	
Channel				372500	376500	380600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				372500	376500	380600			
25	QPSK	1	1	18.10	18.23	18.23	19.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				372000	376500	381000			
20	QPSK	1	1	18.23	18.28	18.19	19.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				371500	376500	381500			
15	QPSK	1	1	18.28	18.25	18.23	19.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				371000	376500	382000			
10	QPSK	1	1	18.27	18.20	18.19	19.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				370500	376500	382500			
5	QPSK	1	1	18.24	18.30	18.18	19.0	0.0	



n66 Ant 4 DSI2 sig path: 184							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	14.35	14.24	14.32	
40	PI2 BPSK	1	108	14.35	14.24	14.21	0.0
40	PI2 BPSK	1	214	14.14	14.30	14.08	
40	PI2 BPSK	108	0	14.29	14.22	14.10	15.0
40	PI2 BPSK	108	54	14.30	14.21	14.33	15.0
40	PI2 BPSK	108	108	14.10	14.10	14.27	15.0
40	PI2 BPSK	216	0	14.24	14.36	14.19	
40	QPSK	1	1	14.33	14.42	14.28	
40	QPSK	1	108	14.11	14.24	14.20	15.0
40	QPSK	1	214	14.03	14.12	14.18	
40	QPSK	108	0	14.06	14.18	14.30	15.0
40	QPSK	108	54	14.26	14.38	14.28	15.0
40	QPSK	108	108	14.32	14.25	14.29	15.0
40	QPSK	216	0	14.24	14.53	14.31	15.0
40	16QAM	1	1	14.17	14.07	14.33	15.0
40	64QAM	1	1	14.24	14.33	14.07	15.0
40	256QAM	1	1	14.23	14.33	14.22	15.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	14.17	14.41	14.04	15.0
Channel				344000	349000	354000	Tune-up limit (dB) MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	14.30	14.20	14.16	15.0
Channel				343500	349000	354500	Tune-up limit (dB) MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	14.34	14.19	14.09	15.0
Channel				343000	349000	355000	Tune-up limit (dB) MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	14.37	14.30	14.16	15.0
Channel				342500	349000	355500	Tune-up limit (dB) MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	14.38	14.38	14.18	15.0

n66 Ant 4 DSI2 sig path: 460							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	13.89	13.81	13.69	
40	PI2 BPSK	1	108	13.71	13.64	13.73	15.0
40	PI2 BPSK	1	214	13.56	13.95	13.54	
40	PI2 BPSK	108	0	13.94	13.63	13.69	15.0
40	PI2 BPSK	108	54	13.76	13.83	13.70	15.0
40	PI2 BPSK	108	108	13.58	13.56	13.82	15.0
40	PI2 BPSK	216	0	13.76	13.76	13.76	
40	QPSK	1	1	13.85	13.98	13.85	
40	QPSK	1	108	13.60	13.62	13.82	15.0
40	QPSK	1	214	13.62	13.72	13.64	
40	QPSK	108	0	13.65	13.59	13.78	15.0
40	QPSK	108	54	13.81	13.89	13.88	15.0
40	QPSK	108	108	13.86	13.77	13.70	15.0
40	QPSK	216	0	13.76	13.83	13.79	15.0
40	16QAM	1	1	13.70	13.63	13.72	15.0
40	64QAM	1	1	13.81	13.88	13.60	15.0
40	256QAM	1	1	13.64	13.79	13.70	15.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	13.68	13.91	13.79	15.0
Channel				344000	349000	354000	Tune-up limit (dB) MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	13.65	13.76	13.84	15.0
Channel				343500	349000	354500	Tune-up limit (dB) MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	13.69	13.93	13.66	15.0
Channel				343000	349000	355000	Tune-up limit (dB) MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	13.77	13.87	13.74	15.0
Channel				342500	349000	355500	Tune-up limit (dB) MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	13.84	13.69	13.72	15.0



Reduced Power Mode for Other PA DSI3 Standalone

n2 Ant 0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
				1860	1880	1900			
20	PI/2 BPSK	1	1	14.78	14.88	14.99			
20	PI/2 BPSK	1	53	14.75	14.88	14.85	16.5	0.0	
20	PI/2 BPSK	1	104	14.92	14.91	14.94			
20	PI/2 BPSK	50	0	14.75	14.98	14.85	16.5	0.0	
20	PI/2 BPSK	50	28	14.82	14.93	14.88	16.5	0.0	
20	PI/2 BPSK	50	56	14.90	14.88	14.83	16.5	0.0	
20	PI/2 BPSK	100	0	14.78	14.91	14.82			
20	QPSK	1	1	14.94	15.05	15.03			
20	QPSK	1	53	14.87	14.98	14.89	16.5	0.0	
20	QPSK	1	104	15.00	15.02	14.93			
20	QPSK	50	0	15.00	14.89	14.89	16.5	0.0	
20	QPSK	50	28	14.94	15.01	14.99	16.5	0.0	
20	QPSK	50	56	14.89	14.89	14.85	16.5	0.0	
20	QPSK	100	0	14.93	14.98	14.84			
20	16QAM	1	1	14.75	14.98	14.85	16.5	0.0	
20	16QAM	1	1	14.94	14.87	14.99	16.5	0.0	
20	256QAM	1	1	14.78	14.90	15.02	16.5	0.0	
Channel									
Frequency (MHz)									
				37050	37650	38250			
15	QPSK	1	1	14.75	14.98	14.85	16.5	0.0	
Channel									
Frequency (MHz)									
				37100	37600	38100			
10	QPSK	1	1	14.75	14.89	14.85	16.5	0.0	
Channel									
Frequency (MHz)									
				37050	37600	38150			
5	QPSK	1	1	14.75	14.98	14.85	16.5	0.0	

n25 Ant 0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR	(dB)
Channel									
Frequency (MHz)									
				1870	1882.5	1895			
40	PI/2 BPSK	1	1	15.39	15.42	15.40			
40	PI/2 BPSK	1	108	15.13	15.37	15.31	16.5	0.0	
40	PI/2 BPSK	1	214	15.24	15.27	15.12			
40	PI/2 BPSK	108	0	14.97	15.14	14.95	16.5	0.0	
40	PI/2 BPSK	108	54	15.21	15.41	15.36	16.5	0.0	
40	PI/2 BPSK	108	108	15.07	15.15	15.12	16.5	0.0	
40	PI/2 BPSK	216	0	15.21	15.25	15.08			
40	QPSK	1	1	15.42	15.46	15.37			
40	QPSK	1	108	15.22	15.45	15.19	16.5	0.0	
40	QPSK	1	214	15.18	15.38	15.37			
40	QPSK	108	0	15.29	15.33	15.34	16.5	0.0	
40	QPSK	108	54	15.34	15.39	15.29	16.5	0.0	
40	QPSK	108	108	15.08	15.27	15.31	16.5	0.0	
40	QPSK	216	0	15.33	15.43	15.13			
40	16QAM	1	1	15.45	15.41	15.34	16.5	0.0	
40	16QAM	1	1	15.24	15.35	15.35	16.5	0.0	
40	256QAM	1	1	15.10	15.33	15.23	16.5	0.0	
Channel									
Frequency (MHz)									
				37050	37650	38250			
30	QPSK	1	1	15.31	15.29	15.35	16.5	0.0	
Channel									
Frequency (MHz)									
				37250	37600	38050			
25	QPSK	1	1	15.27	15.32	15.34	16.5	0.0	
Channel									
Frequency (MHz)									
				37200	37650	38100			
20	QPSK	1	1	15.25	15.29	15.31	16.5	0.0	
Channel									
Frequency (MHz)									
				37150	37650	38150			
15	QPSK	1	1	15.34	15.43	15.28	16.5	0.0	
Channel									
Frequency (MHz)									
				37100	37600	38000			
10	QPSK	1	1	15.39	15.34	15.28	16.5	0.0	
Channel									
Frequency (MHz)									
				37050	37600	38250			
5	QPSK	1	1	15.24	15.41	15.32	16.5	0.0	



n66 Ant 0 DSI3 sig path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.23	18.36	18.32	18.5	0.0	
40	PI2 BPSK	1	108	18.11	18.30	18.25			
40	PI2 BPSK	1	214	18.04	18.24	18.12			
40	PI2 BPSK	108	0	17.88	18.04	17.83	18.5	0.0	
40	PI2 BPSK	108	54	18.10	18.22	18.33	18.5	0.0	
40	PI2 BPSK	108	108	18.02	18.07	17.92	18.5	0.0	
40	PI2 BPSK	216	0	18.02	18.05	18.00			
40	QPSK	1	1	18.27	18.38	18.28			
40	QPSK	1	108	18.18	18.21	18.17	18.5	0.0	
40	QPSK	1	214	18.05	18.23	18.23	18.5	0.0	
40	QPSK	108	0	18.17	18.24	18.17			
40	QPSK	108	54	18.26	18.30	18.23			
40	QPSK	108	108	17.97	18.17	18.13	18.5	0.0	
40	QPSK	216	0	18.13	18.27	18.03	18.5	0.0	
40	16QAM	1	1	18.27	18.38	18.28			
40	16QAM	1	1	18.20	18.27	18.18			
40	256QAM	1	1	18.11	18.28	18.14	18.5	0.0	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.12	18.25	18.16	18.5	0.0	
Channel									
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR	
20	QPSK	1	1	17.20	17.45	17.70	18.5	0.0	
Channel									
Frequency (MHz)				343500	349000	354500	Tune-up limit (dB)	MPR	
15	QPSK	1	1	17.17.5	17.45	17.72.5	18.5	0.0	
Channel									
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR	
10	QPSK	1	1	18.09	18.33	18.20	18.5	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR	
5	QPSK	1	1	17.12.5	17.45	17.77.5	18.5	0.0	

n66 Ant 0 sig path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	17.00	17.71	17.68	18.5	0.0	
40	PI2 BPSK	1	108	17.58	17.70	17.66			
40	PI2 BPSK	1	214	17.51	17.57	17.57			
40	PI2 BPSK	108	0	17.53	17.55	17.51	18.5	0.0	
40	PI2 BPSK	108	54	17.55	17.54	17.80	18.5	0.0	
40	PI2 BPSK	108	108	17.54	17.54	17.51	18.5	0.0	
40	PI2 BPSK	216	0	17.51	17.57	17.53			
40	QPSK	1	1	17.61	17.62	17.61			
40	QPSK	1	108	17.57	17.54	17.63	18.5	0.0	
40	QPSK	1	214	17.56	17.66	17.56	18.5	0.0	
40	QPSK	108	0	17.53	17.62	17.57			
40	QPSK	108	54	17.62	17.67	17.60			
40	QPSK	108	108	17.51	17.53	17.60	18.5	0.0	
40	QPSK	216	0	17.58	17.66	17.51	18.5	0.0	
40	16QAM	1	1	17.67	17.70	17.73			
40	16QAM	1	1	17.56	17.67	17.63			
40	256QAM	1	1	17.58	17.69	17.52	18.5	0.0	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.55	17.79	17.58	18.5	0.0	
Channel									
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR	
20	QPSK	1	1	17.20	17.45	17.70	18.5	0.0	
Channel									
Frequency (MHz)				343500	349000	354500	Tune-up limit (dB)	MPR	
15	QPSK	1	1	17.17.5	17.45	17.72.5	18.5	0.0	
Channel									
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR	
10	QPSK	1	1	17.52	17.78	17.53	18.5	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR	
5	QPSK	1	1	17.12.5	17.45	17.77.5	18.5	0.0	



n2 Ant 4 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	Pl/2 BPSK	1	1	17.11	17.04	17.13	
20	Pl/2 BPSK	1	53	17.07	17.16	17.07	18.0
20	Pl/2 BPSK	1	104	16.96	17.20	16.96	18.0
20	Pl/2 BPSK	50	0	18.82	17.30	17.03	18.0
20	Pl/2 BPSK	50	28	17.10	17.00	16.95	18.0
20	Pl/2 BPSK	50	56	16.89	17.07	16.98	18.0
20	Pl/2 BPSK	100	0	17.06	17.11	16.97	18.0
20	QPSK	1	1	17.25	17.29	17.24	18.0
20	QPSK	1	53	16.87	17.07	17.16	18.0
20	QPSK	1	104	16.99	16.90	16.99	18.0
20	QPSK	50	0	16.89	16.98	17.05	18.0
20	QPSK	50	28	17.07	17.20	17.13	18.0
20	QPSK	50	56	17.07	17.14	17.07	18.0
20	QPSK	100	0	17.04	17.16	17.01	18.0
20	16QAM	1	1	16.92	16.90	17.01	18.0
20	64QAM	1	1	17.08	17.11	17.07	18.0
20	256QAM	1	1	16.96	17.11	16.93	18.0
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	1	17.05	16.99	17.09	18.0
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	17.01	17.06	16.98	18.0
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	17.10	17.06	17.11	18.0

n25 Ant 4 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				376000	376500	376500	
Frequency (MHz)				1870	1882.5	1895	
40	Pl/2 BPSK	1	1	17.13	17.23	17.31	
40	Pl/2 BPSK	1	108	17.02	17.31	17.24	18.0
40	Pl/2 BPSK	1	214	17.01	17.31	17.13	18.0
40	Pl/2 BPSK	108	0	17.15	17.32	17.17	18.0
40	Pl/2 BPSK	108	54	17.19	17.04	17.03	18.0
40	Pl/2 BPSK	108	108	16.80	17.15	17.07	18.0
40	Pl/2 BPSK	216	0	17.24	17.25	17.03	18.0
40	QPSK	1	1	17.32	17.37	17.29	18.0
40	QPSK	1	108	17.18	17.32	17.18	18.0
40	QPSK	1	214	17.11	16.95	17.06	18.0
40	QPSK	108	0	16.88	17.12	17.24	18.0
40	QPSK	108	54	17.15	17.26	17.16	18.0
40	QPSK	108	108	17.12	17.11	17.14	18.0
40	QPSK	216	0	17.14	17.19	17.13	18.0
40	16QAM	1	1	17.03	17.05	17.00	18.0
40	64QAM	1	1	17.12	17.21	17.10	18.0
40	256QAM	1	1	17.08	17.29	16.89	18.0
Channel				375500	376500	380500	
Frequency (MHz)				1865	1882.5	1900	
30	QPSK	1	1	17.20	17.27	17.33	18.0
Channel				375000	376500	380600	
Frequency (MHz)				1862.5	1882.5	1902.5	
25	QPSK	1	1	17.27	17.30	17.23	18.0
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	1	17.29	17.26	17.30	18.0
Channel				371500	376500	381500	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	1	17.27	17.19	17.29	18.0
Channel				371000	376500	382000	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	1	17.30	17.29	17.19	18.0
Channel				370500	376500	382500	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	1	17.21	17.26	17.22	18.0



n66 Ant 4 DSI3 sig Path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				349000	349000	349000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.64	18.60	18.56			
40	PI2 BPSK	1	108	18.83	18.53	18.50	19.5	0.0	
40	PI2 BPSK	1	214	18.35	18.64	18.45			
40	PI2 BPSK	108	0	18.54	18.42	18.48	19.5	0.0	
40	PI2 BPSK	108	54	18.55	18.57	18.54	19.5	0.0	
40	PI2 BPSK	108	108	18.45	18.34	18.56	19.5	0.0	
40	PI2 BPSK	216	0	18.83	18.69	18.49			
40	QPSK	1	1	18.83	18.70	18.57	19.5	0.0	
40	QPSK	1	214	18.44	18.44	18.43			
40	QPSK	108	0	18.47	18.56	18.60	19.5	0.0	
40	QPSK	108	54	18.58	18.65	18.61	19.5	0.0	
40	QPSK	108	108	18.52	18.56	18.50	19.5	0.0	
40	QPSK	216	0	18.50	18.50	18.57			
40	16QAM	1	1	18.42	18.48	18.59	19.5	0.0	
40	64QAM	1	1	18.62	18.60	18.48	19.5	0.0	
40	256QAM	1	1	18.52	18.67	18.51	19.5	0.0	
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.46	18.64	18.29	19.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.43	18.60	18.30	19.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.47	18.65	18.30	19.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.59	18.66	18.31	19.5	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.57	18.62	18.39	19.5	0.0	

n66 Ant 4 DSI3 sig Path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				349000	349000	349000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.10	17.98	17.97			
40	PI2 BPSK	1	108	17.95	17.91	17.90	19.5	0.0	
40	PI2 BPSK	1	214	17.80	18.15	17.78			
40	PI2 BPSK	108	0	18.05	17.78	17.97	19.5	0.0	
40	PI2 BPSK	108	54	18.03	17.96	17.98	19.5	0.0	
40	PI2 BPSK	108	108	18.03	17.71	17.94	19.5	0.0	
40	PI2 BPSK	216	0	18.02	17.94	17.91			
40	QPSK	1	1	18.01	18.24	18.03	19.5	0.0	
40	QPSK	1	108	17.86	17.87	17.82			
40	QPSK	1	214	17.79	17.95	17.91			
40	QPSK	108	0	17.85	17.75	18.03	19.5	0.0	
40	QPSK	108	54	18.01	18.18	18.05	19.5	0.0	
40	QPSK	108	108	18.03	17.86	17.86	19.5	0.0	
40	QPSK	216	0	18.06	18.17	18.12			
40	16QAM	1	1	17.91	17.76	17.90	19.5	0.0	
40	64QAM	1	1	18.07	18.11	17.84	19.5	0.0	
40	256QAM	1	1	17.94	18.01	17.89	19.5	0.0	
Channel				349000	349000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.78	18.04	18.02	19.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.90	18.07	17.89	19.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.77	18.11	17.97	19.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.85	18.00	17.97	19.5	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.82	18.06	17.96	19.5	0.0	



Reduced Power Mode for Other PA DSI0 EDC&UL CA

n2 Ant 0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1850	1880	1900			
20	PI/2 BPSK	1	1	14.78	14.86	14.90	16.5	0.0	
20	PI/2 BPSK	1	53	14.75	14.98	14.85	16.5	0.0	
20	PI/2 BPSK	1	104	14.82	14.91	14.94	16.5	0.0	
20	PI/2 BPSK	50	0	14.75	14.98	14.85	16.5	0.0	
20	PI/2 BPSK	50	25	14.82	14.93	14.96	16.5	0.0	
20	PI/2 BPSK	50	50	14.90	14.86	14.83	16.5	0.0	
20	PI/2 BPSK	100	0	14.78	14.91	14.82	16.5	0.0	
20	QPSK	1	1	14.84	15.05	15.03	16.5	0.0	
20	QPSK	1	53	14.87	14.96	14.89	16.5	0.0	
20	QPSK	1	104	15.00	15.02	14.93	16.5	0.0	
20	QPSK	50	0	15.00	14.89	14.80	16.5	0.0	
20	QPSK	50	25	14.84	15.01	14.90	16.5	0.0	
20	QPSK	50	50	14.89	14.89	14.85	16.5	0.0	
20	QPSK	100	0	14.93	14.96	14.84	16.5	0.0	
20	16QAM	1	1	14.75	14.98	14.85	16.5	0.0	
20	64QAM	1	1	14.94	14.87	14.90	16.5	0.0	
20	256QAM	1	1	14.79	14.90	15.02	16.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	14.75	14.98	14.85	16.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	14.75	14.98	14.85	16.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	14.75	14.98	14.85	16.5	0.0	

n25 Ant 0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				373000	376500	380000			
Frequency (MHz)				1910	1892.5	1885			
40	PI/2 BPSK	1	1	15.39	15.42	15.40	16.5	0.0	
40	PI/2 BPSK	1	108	15.13	15.37	15.31	16.5	0.0	
40	PI/2 BPSK	1	214	15.24	15.27	15.12	16.5	0.0	
40	PI/2 BPSK	108	0	14.97	15.14	14.95	16.5	0.0	
40	PI/2 BPSK	108	54	15.21	15.41	15.36	16.5	0.0	
40	PI/2 BPSK	108	108	15.07	15.15	15.12	16.5	0.0	
40	PI/2 BPSK	216	0	15.21	15.25	15.08	16.5	0.0	
40	QPSK	1	1	15.42	15.46	15.37	16.5	0.0	
40	QPSK	1	108	15.22	15.45	15.19	16.5	0.0	
40	QPSK	1	214	15.16	15.36	15.37	16.5	0.0	
40	QPSK	108	0	15.29	15.33	15.34	16.5	0.0	
40	QPSK	108	54	15.34	15.39	15.29	16.5	0.0	
40	QPSK	108	108	15.08	15.27	15.31	16.5	0.0	
40	QPSK	216	0	15.33	15.43	15.13	16.5	0.0	
40	16QAM	1	1	15.45	15.41	15.34	16.5	0.0	
40	64QAM	1	1	15.24	15.35	15.35	16.5	0.0	
40	256QAM	1	1	15.10	15.33	15.23	16.5	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1885	1882.5	1900			
30	QPSK	1	1	15.31	15.29	15.35	16.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1882.5	1882.5			
25	QPSK	1	1	15.27	15.32	15.34	16.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1880	1882.5	1892.5			
20	QPSK	1	1	15.29	15.29	15.31	16.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1882.5	1887.5			
15	QPSK	1	1	15.34	15.43	15.26	16.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1885	1882.5	1910			
10	QPSK	1	1	15.39	15.34	15.26	16.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1882.5	1912.5			
5	QPSK	1	1	15.24	15.41	15.32	16.5	0.0	



n66 Ant 0 DS13 sig path: 184								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1725	1745	1760		
40	PI/2 BPSK	1	1	18.25	18.30	18.32	18.5	0.0
40	PI/2 BPSK	1	108	18.11	18.30	18.25	18.5	0.0
40	PI/2 BPSK	1	214	18.04	18.24	18.12	18.5	0.0
40	PI/2 BPSK	108	0	17.88	18.04	17.83	18.5	0.0
40	PI/2 BPSK	108	54	18.10	18.22	18.33	18.5	0.0
40	PI/2 BPSK	108	108	18.02	18.07	17.92	18.5	0.0
40	PI/2 BPSK	216	0	18.02	18.05	18.00	18.5	0.0
40	QPSK	1	1	18.27	18.39	18.26	18.5	0.0
40	QPSK	1	108	18.19	18.21	18.17	18.5	0.0
40	QPSK	1	214	18.06	18.23	18.23	18.5	0.0
40	QPSK	108	0	18.17	18.24	18.17	18.5	0.0
40	QPSK	108	54	18.26	18.30	18.23	18.5	0.0
40	QPSK	108	108	17.97	18.17	18.13	18.5	0.0
40	QPSK	216	0	18.13	18.27	18.03	18.5	0.0
40	16QAM	1	1	18.27	18.36	18.26	18.5	0.0
40	64QAM	1	1	18.20	18.27	18.18	18.5	0.0
40	256QAM	1	1	18.11	18.28	18.14	18.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	18.12	18.25	18.16	18.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.20	18.21	18.11	18.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.20	18.35	18.18	18.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.05	18.33	18.20	18.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.23	18.23	18.16	18.5	0.0

n66 Ant 0 sig path: 460								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	PI/2 BPSK	1	1	17.60	17.71	17.68	18.5	0.0
40	PI/2 BPSK	1	108	17.58	17.70	17.66	18.5	0.0
40	PI/2 BPSK	1	214	17.51	17.57	17.57	18.5	0.0
40	PI/2 BPSK	108	0	17.53	17.55	17.51	18.5	0.0
40	PI/2 BPSK	108	54	17.55	17.54	17.80	18.5	0.0
40	PI/2 BPSK	108	108	17.54	17.54	17.51	18.5	0.0
40	PI/2 BPSK	216	0	17.51	17.57	17.53	18.5	0.0
40	QPSK	1	1	17.61	17.62	17.61	18.5	0.0
40	QPSK	1	108	17.57	17.54	17.83	18.5	0.0
40	QPSK	1	214	17.56	17.68	17.56	18.5	0.0
40	QPSK	108	0	17.53	17.62	17.57	18.5	0.0
40	QPSK	108	54	17.62	17.67	17.60	18.5	0.0
40	QPSK	108	108	17.51	17.53	17.60	18.5	0.0
40	QPSK	216	0	17.58	17.66	17.51	18.5	0.0
40	16QAM	1	1	17.67	17.70	17.73	18.5	0.0
40	64QAM	1	1	17.56	17.67	17.63	18.5	0.0
40	256QAM	1	1	17.56	17.69	17.52	18.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	17.55	17.70	17.58	18.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.58	17.75	17.58	18.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.56	17.69	17.61	18.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.52	17.73	17.53	18.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.51	17.77	17.51	18.5	0.0



n2 Ant 0 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	Pl/2 BPSK	1	1	17.11	17.04	17.13		
20	Pl/2 BPSK	1	53	17.07	17.16	17.07	18.0	0.0
20	Pl/2 BPSK	1	104	16.96	17.20	16.96		
20	Pl/2 BPSK	50	0	18.92	17.30	17.03	18.0	0.0
20	Pl/2 BPSK	50	28	17.10	17.00	16.95	18.0	0.0
20	Pl/2 BPSK	50	56	16.89	17.07	16.98	18.0	0.0
20	Pl/2 BPSK	100	0	17.06	17.11	16.97		
20	QPSK	1	1	17.25	17.29	17.24		
20	QPSK	1	53	16.97	17.07	17.16	18.0	0.0
20	QPSK	1	104	16.99	16.90	16.99		
20	QPSK	50	0	16.89	16.98	17.05	18.0	0.0
20	QPSK	50	28	17.07	17.20	17.13	18.0	0.0
20	QPSK	50	56	17.07	17.14	17.07	18.0	0.0
20	QPSK	100	0	17.04	17.16	17.01	18.0	0.0
20	16QAM	1	1	16.92	16.90	17.01	18.0	0.0
20	64QAM	1	1	17.08	17.11	17.07	18.0	0.0
20	256QAM	1	1	16.96	17.11	16.93	18.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	18.0	0.0
15	QPSK	1	1	17.05	16.99	17.09	18.0	0.0
Channel				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1855	1880	1905	18.0	0.0
10	QPSK	1	1	17.01	17.06	16.98	18.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	18.0	0.0
5	QPSK	1	1	17.10	17.06	17.11	18.0	0.0

n25 Ant 4 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				376000	376000	376000		
Frequency (MHz)				1870	1882.5	1895		
40	Pl/2 BPSK	1	1	17.13	17.23	17.31		
40	Pl/2 BPSK	1	108	17.02	17.31	17.24	18.0	0.0
40	Pl/2 BPSK	1	214	17.01	17.31	17.13		
40	Pl/2 BPSK	108	0	17.15	17.32	17.17	18.0	0.0
40	Pl/2 BPSK	108	54	17.19	17.04	17.03	18.0	0.0
40	Pl/2 BPSK	108	108	16.80	17.15	17.07	18.0	0.0
40	Pl/2 BPSK	216	0	17.24	17.25	17.03		
40	QPSK	1	1	17.32	17.37	17.29		
40	QPSK	1	108	17.18	17.32	17.18	18.0	0.0
40	QPSK	1	214	17.11	16.95	17.06		
40	QPSK	108	0	16.88	17.12	17.24	18.0	0.0
40	QPSK	108	54	17.15	17.26	17.16	18.0	0.0
40	QPSK	108	108	17.12	17.11	17.14	18.0	0.0
40	QPSK	216	0	17.14	17.19	17.13	18.0	0.0
40	16QAM	1	1	17.03	17.05	17.00	18.0	0.0
40	64QAM	1	1	17.12	17.21	17.10	18.0	0.0
40	256QAM	1	1	17.08	17.29	16.89	18.0	0.0
Channel				375500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1900	18.0	0.0
30	QPSK	1	1	17.20	17.27	17.33	18.0	0.0
Channel				375000	376000	380600	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5	18.0	0.0
25	QPSK	1	1	17.27	17.18	17.23	18.0	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905	18.0	0.0
20	QPSK	1	1	17.29	17.26	17.30	18.0	0.0
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	18.0	0.0
15	QPSK	1	1	17.27	17.19	17.29	18.0	0.0
Channel				371000	376000	382000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910	18.0	0.0
10	QPSK	1	1	17.30	17.29	17.19	18.0	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5	18.0	0.0
5	QPSK	1	1	17.21	17.26	17.22	18.0	0.0



n66 Ant 4 DSI3 sig Path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				349300	349900	350500			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	16.01	15.89	15.94			
40	PI2 BPSK	1	108	15.93	15.93	15.95	16.5	0.0	
40	PI2 BPSK	1	214	16.02	16.00	15.98			
40	PI2 BPSK	108	0	15.92	15.85	15.79	16.5	0.0	
40	PI2 BPSK	108	54	15.97	15.96	15.90	16.5	0.0	
40	PI2 BPSK	108	108	15.77	15.82	15.88			
40	PI2 BPSK	216	0	16.00	16.06	15.86			
40	QPSK	1	1	16.96	16.16	15.97			
40	QPSK	1	108	15.98	15.82	15.79	16.5	0.0	
40	QPSK	1	214	15.90	15.76	15.73			
40	QPSK	108	0	15.83	15.84	16.07	16.5	0.0	
40	QPSK	108	54	15.99	16.10	15.96	16.5	0.0	
40	QPSK	108	108	16.07	16.00	15.88			
40	QPSK	216	0	15.95	16.02	15.94	16.5	0.0	
40	16QAM	1	1	15.85	15.87	16.03	16.5	0.0	
40	16QAM	1	1	15.91	15.90	15.79	16.5	0.0	
40	256QAM	1	1	15.81	15.97	15.98	16.5	0.0	
Channel				349300	349900	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.78	16.08	15.74	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.79	16.00	15.75	16.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.79	16.12	15.67	16.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.86	16.08	15.75	16.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.89	16.06	15.73	16.5	0.0	

n66 Ant 4 DSI3 sig Path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				349300	349900	350500			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	15.44	15.32	15.27			
40	PI2 BPSK	1	108	15.30	15.19	15.20	16.5	0.0	
40	PI2 BPSK	1	214	15.19	15.44	15.21			
40	PI2 BPSK	108	0	15.37	15.20	15.42	16.5	0.0	
40	PI2 BPSK	108	54	15.48	15.43	15.38	16.5	0.0	
40	PI2 BPSK	108	108	15.05	15.18	15.36			
40	PI2 BPSK	216	0	15.37	15.28	15.29			
40	QPSK	1	1	15.34	15.68	15.48			
40	QPSK	1	108	15.30	15.18	15.29	16.5	0.0	
40	QPSK	1	214	15.16	15.38	15.37			
40	QPSK	108	0	15.18	15.15	15.41	16.5	0.0	
40	QPSK	108	54	15.37	15.62	15.34	16.5	0.0	
40	QPSK	108	108	15.41	15.38	15.28			
40	QPSK	216	0	15.51	15.55	15.43	16.5	0.0	
40	16QAM	1	1	15.30	15.20	15.24	16.5	0.0	
40	16QAM	1	1	15.42	15.39	15.28	16.5	0.0	
40	256QAM	1	1	15.42	15.48	15.30	16.5	0.0	
Channel				349300	349900	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.14	15.43	15.43	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.16	15.40	15.47	16.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.16	15.45	15.32	16.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.24	15.50	15.35	16.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.24	15.32	15.24	16.5	0.0	



Reduced Power Mode for Other PA DSI4

n2 Ant 0 DSI4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.58	21.66	21.64	
20	PI/2 BPSK	1	53	21.41	21.61	21.61	23.0
20	PI/2 BPSK	1	104	21.43	21.59	21.42	
20	PI/2 BPSK	50	0	21.17	21.34	21.16	22.5
20	PI/2 BPSK	50	28	21.48	21.64	21.62	23.0
20	PI/2 BPSK	50	56	21.26	21.25	21.22	22.5
20	PI/2 BPSK	100	0	21.36	21.37	21.27	
20	QPSK	1	1	21.63	21.71	21.67	
20	QPSK	1	53	21.50	21.64	21.51	23.0
20	QPSK	1	104	21.48	21.67	21.58	
20	QPSK	50	0	20.72	20.79	20.73	22.0
20	QPSK	50	28	21.59	21.65	21.53	23.0
20	QPSK	50	56	20.58	20.78	20.75	22.0
20	QPSK	100	0	20.72	20.84	20.82	
20	16QAM	1	1	20.83	20.87	20.77	22.0
20	16QAM	1	1	19.12	19.29	19.17	20.5
20	256QAM	1	1	17.15	17.32	17.14	18.5
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	1	21.52	21.59	21.33	23.0
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	21.53	21.63	21.49	23.0
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	21.31	21.42	21.36	23.0

n25 Ant 0 DSI4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				376000	376500	376500	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.68	21.80	21.75	
40	PI/2 BPSK	1	108	21.32	21.41	21.34	23.0
40	PI/2 BPSK	1	214	21.11	21.18	21.18	
40	PI/2 BPSK	108	0	21.05	21.23	21.18	22.5
40	PI/2 BPSK	108	54	21.16	21.32	21.18	23.0
40	PI/2 BPSK	108	108	20.58	20.71	20.59	22.5
40	PI/2 BPSK	216	0	20.98	21.02	20.84	
40	QPSK	1	1	21.75	21.82	21.76	
40	QPSK	1	108	21.29	21.38	21.18	23.0
40	QPSK	1	214	21.22	21.18	21.04	
40	QPSK	108	0	20.64	20.83	20.84	22.0
40	QPSK	108	54	21.37	21.38	21.28	23.0
40	QPSK	108	108	20.06	20.22	20.04	22.0
40	QPSK	216	0	20.85	20.82	20.78	
40	16QAM	1	1	21.00	21.07	20.88	22.0
40	16QAM	1	1	18.93	19.10	18.88	20.5
40	256QAM	1	1	17.59	17.65	17.48	18.5
Channel				375500	376500	380500	
Frequency (MHz)				1865	1882.5	1900	
30	QPSK	1	1	21.83	21.77	21.51	23.0
Channel				375000	376500	380500	
Frequency (MHz)				1862.5	1882.5	1902.5	
25	QPSK	1	1	21.83	21.73	21.53	23.0
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	1	21.73	21.62	21.56	23.0
Channel				371500	376500	381500	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	1	21.62	21.85	21.58	23.0
Channel				371000	376500	382000	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	1	21.88	21.81	21.59	23.0
Channel				370500	376500	382500	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	1	21.87	21.78	21.52	23.0



n66 Ant 0 DS14 sig path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	22.12	22.18	22.10	23.0	0.0	
40	PI/2 BPSK	1	168	22.07	22.14	22.02			
40	PI/2 BPSK	1	214	22.06	22.11	22.00			
40	PI/2 BPSK	108	0	21.58	21.87	21.55	22.5	0.5	
40	PI/2 BPSK	108	54	22.11	22.16	22.05	23.0	0.0	
40	PI/2 BPSK	108	108	21.55	21.67	21.60	22.5	0.5	
40	PI/2 BPSK	216	0	21.80	21.70	21.64			
40	QPSK	1	1	22.20	22.25	22.14			
40	QPSK	1	108	22.11	22.16	22.02	23.0	0.0	
40	QPSK	1	214	22.04	22.12	22.02			
40	QPSK	108	0	21.13	21.21	21.15			
40	QPSK	108	54	22.01	22.11	22.03	23.0	0.0	
40	QPSK	108	108	21.16	21.16	21.12	22.0	1.0	
40	QPSK	216	0	21.12	21.21	21.17			
40	16QAM	1	1	21.40	21.51	21.40			
40	16QAM	1	1	19.50	19.57	19.48	20.5	2.5	
40	256QAM	1	1	17.73	17.82	17.68	18.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.14	22.19	22.08	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.07	22.15	22.00	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.10	22.11	22.05	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.10	22.17	22.01	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.03	22.13	22.07	23.0	0.0	

n66 Ant 0 DS14 sig path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	22.08	22.21	22.10	23.0	0.0	
40	PI/2 BPSK	1	108	22.02	22.10	22.04			
40	PI/2 BPSK	1	214	22.06	22.09	22.06			
40	PI/2 BPSK	108	0	21.52	21.71	21.58	22.5	0.5	
40	PI/2 BPSK	108	54	22.05	22.19	22.16	23.0	0.0	
40	PI/2 BPSK	108	108	21.56	21.55	21.57	22.5	0.5	
40	PI/2 BPSK	216	0	21.57	21.59	21.54			
40	QPSK	1	1	22.15	22.25	22.18			
40	QPSK	1	108	22.01	22.12	22.10	23.0	0.0	
40	QPSK	1	214	22.07	22.08	22.03			
40	QPSK	108	0	21.22	21.28	21.15			
40	QPSK	108	54	22.01	22.14	22.10	23.0	0.0	
40	QPSK	108	108	21.02	21.07	21.06	22.0	1.0	
40	QPSK	216	0	21.08	21.05	21.05			
40	16QAM	1	1	21.28	21.32	21.19			
40	16QAM	1	1	19.58	19.77	19.77	20.5	2.5	
40	256QAM	1	1	17.68	17.72	17.64	18.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.11	22.09	22.13	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.09	22.12	22.10	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.12	22.08	22.10	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.02	22.22	22.11	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.14	22.09	22.13	23.0	0.0	



n2 Ant 4 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	23.07	23.11	23.05			
20	PI2 BPSK	1	53	22.97	23.08	23.00	24.0	0.0	
20	PI2 BPSK	1	104	22.73	22.85	22.73			
20	PI2 BPSK	50	0	22.38	22.48	22.42	23.5	0.5	
20	PI2 BPSK	50	28	22.94	23.04	22.93	24.0	0.0	
20	PI2 BPSK	50	56	22.30	22.43	22.34	23.5	0.5	
20	PI2 BPSK	100	0	22.47	22.54	22.42			
20	QPSK	1	1	23.11	23.17	23.09			
20	QPSK	1	53	23.07	23.12	23.03	24.0	0.0	
20	QPSK	1	104	22.85	22.79	22.74			
20	QPSK	50	0	22.13	22.19	22.09	23.0	1.0	
20	QPSK	50	28	23.00	23.08	22.98	24.0	0.0	
20	QPSK	50	56	21.91	22.02	21.88	23.0	1.0	
20	QPSK	100	0	22.01	22.08	21.95			
20	16QAM	1	1	22.10	22.21	22.10	23.0	1.0	
20	16QAM	1	1	20.44	20.55	20.41	21.5	2.5	
20	256QAM	1	1	18.74	18.79	18.65	19.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	22.97	23.06	22.97	24.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1905	1930	1905			
10	QPSK	1	1	23.00	23.09	23.02	24.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	23.00	23.05	23.03	24.0	0.0	

n25 Ant 4 DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				374500	376500	378500			
Frequency (MHz)				1870	1882.5	1885			
40	PI2 BPSK	1	1	23.28	23.33	23.17			
40	PI2 BPSK	1	108	22.89	22.96	22.77	24.0	0.0	
40	PI2 BPSK	1	214	22.79	22.84	22.75			
40	PI2 BPSK	108	0	22.59	22.74	22.67	23.5	0.5	
40	PI2 BPSK	108	54	22.81	22.88	22.69	24.0	0.0	
40	PI2 BPSK	108	108	22.36	22.41	22.21	23.5	0.5	
40	PI2 BPSK	216	0	22.30	22.49	22.41			
40	QPSK	1	1	22.86	23.36	23.25			
40	QPSK	1	108	22.78	22.89	22.70	24.0	0.0	
40	QPSK	1	214	22.66	22.78	22.66			
40	QPSK	108	0	22.19	22.26	22.14	23.0	1.0	
40	QPSK	108	54	23.01	23.17	23.08	24.0	0.0	
40	QPSK	108	108	21.70	21.79	21.74	23.0	1.0	
40	QPSK	216	0	21.98	22.07	22.06			
40	16QAM	1	1	22.33	22.52	22.39	23.0	1.0	
40	16QAM	1	1	20.42	20.60	20.50	21.5	2.5	
40	256QAM	1	1	19.08	19.12	19.10	19.5	4.5	
Channel				373500	376500	380500			
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	22.79	23.21	23.13	24.0	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	22.81	23.29	23.20	24.0	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	22.96	23.26	23.18	24.0	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	22.84	23.23	23.17	24.0	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	22.81	23.21	23.15	24.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	22.81	23.20	23.07	24.0	0.0	



n66 Ant 4 DSI4 sig: 184									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	345000	350000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	22.80	22.89	22.82			
40	PI/2 BPSK	1	108	22.72	22.82	22.67	24.0	0.0	
40	PI/2 BPSK	1	214	22.84	22.73	22.59			
40	PI/2 BPSK	108	0	22.36	22.51	22.39	23.5	0.5	
40	PI/2 BPSK	108	54	22.70	22.81	22.71	24.0	0.0	
40	PI/2 BPSK	108	108	22.34	22.41	22.33	23.5	0.5	
40	PI/2 BPSK	216	0	22.36	22.48	22.35			
40	QPSK	1	1	22.87	22.80	22.85			
40	QPSK	1	108	22.74	22.88	22.81	24.0	0.0	
40	QPSK	1	214	22.73	22.79	22.67			
40	QPSK	108	0	21.89	21.94	21.90	23.0	1.0	
40	QPSK	108	54	22.72	22.67	22.79	24.0	0.0	
40	QPSK	108	108	21.74	21.89	21.78	23.0	1.0	
40	QPSK	216	0	21.83	21.93	21.78			
40	16QAM	1	1	22.03	22.17	22.09	23.0	1.0	
40	16QAM	1	1	20.47	20.58	20.47	21.5	2.5	
40	256QAM	1	1	18.38	18.43	18.36	19.5	4.5	
Channel				345000	345000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	22.78	22.87	22.73	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	22.74	22.81	22.74	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	22.78	22.88	22.77	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	22.73	22.78	22.71	24.0	0.0	

n66 Ant 4 DSI4 sig path: 460									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	350000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	22.31	22.38	22.31			
40	PI/2 BPSK	1	108	22.17	22.29	22.11	24.0	0.0	
40	PI/2 BPSK	1	214	22.09	22.18	22.10			
40	PI/2 BPSK	108	0	21.71	21.87	21.72	23.5	0.5	
40	PI/2 BPSK	108	54	22.07	22.14	22.05	24.0	0.0	
40	PI/2 BPSK	108	108	21.74	21.78	21.76	23.5	0.5	
40	PI/2 BPSK	216	0	21.86	21.91	21.79			
40	QPSK	1	1	22.22	22.41	22.32			
40	QPSK	1	108	22.13	22.28	22.15	24.0	0.0	
40	QPSK	1	214	22.04	22.13	22.13			
40	QPSK	108	0	21.39	21.44	21.27	23.0	1.0	
40	QPSK	108	54	22.10	22.22	22.10	24.0	0.0	
40	QPSK	108	108	21.12	21.22	21.19	23.0	1.0	
40	QPSK	216	0	21.18	21.28	21.21			
40	16QAM	1	1	21.40	21.44	21.37	23.0	1.0	
40	16QAM	1	1	19.88	19.95	19.83	21.5	2.5	
40	256QAM	1	1	17.89	18.05	17.88	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	22.16	22.31	22.25	24.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	22.12	22.28	22.24	24.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	22.20	22.24	22.28	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	22.17	22.37	22.25	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	22.15	22.34	22.19	24.0	0.0	



Reduced Power Mode for Other PA DS16 Standalone

n2 Ant 0 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	19.42	19.50	19.48			
20	PI/2 BPSK	1	53	19.25	19.45	19.45	21.0	0.0	
20	PI/2 BPSK	1	104	19.27	19.43	19.26			
20	PI/2 BPSK	50	0	19.41	19.58	19.40	21.0	0.0	
20	PI/2 BPSK	50	28	19.32	19.48	19.46	21.0	0.0	
20	PI/2 BPSK	50	56	19.49	19.49	19.48			
20	PI/2 BPSK	100	0	19.53	19.58	19.51	21.0	0.0	
20	QPSK	1	1	19.57	19.61	19.51			
20	QPSK	1	53	19.31	19.49	19.35	21.0	0.0	
20	QPSK	1	104	19.32	19.51	19.42			
20	QPSK	50	0	19.43	19.43	19.44	21.0	0.0	
20	QPSK	50	28	19.43	19.59	19.37	21.0	0.0	
20	QPSK	50	56	19.29	19.46	19.46			
20	QPSK	100	0	19.43	19.55	19.33	21.0	0.0	
20	16QAM	1	1	19.54	19.58	19.48	21.0	0.0	
20	64QAM	1	1	18.98	19.13	19.01	20.5	0.5	
20	256QAM	1	1	18.99	17.16	16.98	18.5	2.5	
Channel				371000	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	19.49	19.53	19.44	21.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	19.47	19.50	19.40	21.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	19.40	19.58	19.47	21.0	0.0	

n25 Ant 0 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	378000			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	19.74	19.72	19.80			
40	PI/2 BPSK	1	108	19.45	19.72	19.66	21.0	0.0	
40	PI/2 BPSK	1	214	19.60	19.73	19.48			
40	PI/2 BPSK	108	0	19.72	19.81	19.75	21.0	0.0	
40	PI/2 BPSK	108	54	19.60	19.83	19.72	21.0	0.0	
40	PI/2 BPSK	108	108	19.80	19.73	19.80			
40	PI/2 BPSK	216	0	19.75	19.84	19.79	21.0	0.0	
40	QPSK	1	1	19.78	19.85	19.73			
40	QPSK	1	108	19.61	19.81	19.68	21.0	0.0	
40	QPSK	1	214	19.56	19.72	19.68			
40	QPSK	108	0	19.66	19.71	19.71	21.0	0.0	
40	QPSK	108	54	19.74	19.78	19.64	21.0	0.0	
40	QPSK	108	108	19.58	19.74	19.74			
40	QPSK	216	0	19.71	19.76	19.58	21.0	0.0	
40	16QAM	1	1	19.82	19.71	19.78	21.0	0.0	
40	64QAM	1	1	19.16	19.33	19.21	20.5	0.5	
40	256QAM	1	1	17.21	17.47	17.25	18.5	2.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	19.65	19.72	19.58	21.0	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	19.71	19.74	19.58	21.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	19.72	19.82	19.65	21.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	19.63	19.82	19.63	21.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	19.64	19.79	19.62	21.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	19.74	19.81	19.83	21.0	0.0	



n66 Ant 0 DSI6 sig path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	20.20	20.18	20.24			
40	PI2 BPSK	1	108	19.88	20.25	20.20	21.0	0.0	
40	PI2 BPSK	1	214	20.02	20.25	20.00			
40	PI2 BPSK	108	0	20.25	20.33	20.23	21.0	0.0	
40	PI2 BPSK	108	54	20.04	20.37	20.28	21.0	0.0	
40	PI2 BPSK	108	108	20.22	20.15	20.28			
40	PI2 BPSK	216	0	20.30	20.37	20.21	21.0	0.0	
40	QPSK	1	1	20.23	20.35	20.15			
40	QPSK	1	108	20.11	20.37	20.18	21.0	0.0	
40	QPSK	1	214	19.99	20.28	20.22			
40	QPSK	108	0	20.20	20.21	20.21	21.0	0.0	
40	QPSK	108	54	20.20	20.26	20.20	21.0	0.0	
40	QPSK	108	108	20.11	20.19	20.25			
40	QPSK	216	0	20.19	20.22	20.01	21.0	0.0	
40	16QAM	1	1	20.33	20.22	20.27	21.0	0.0	
40	64QAM	1	1	19.50	19.57	19.48	20.5	0.5	
40	256QAM	1	1	17.73	17.82	17.68	18.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.09	20.28	20.10	21.0	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.19	20.30	20.07	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.08	20.34	20.05	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.08	20.35	20.03	21.0	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.14	20.38	20.05	21.0	0.0	

n66 Ant 0 DSI6 sig path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	20.18	20.11	20.27			
40	PI2 BPSK	1	108	20.06	20.25	20.19	21.0	0.0	
40	PI2 BPSK	1	214	20.08	20.31	20.02			
40	PI2 BPSK	108	0	20.26	20.34	20.15	21.0	0.0	
40	PI2 BPSK	108	54	20.03	20.31	20.25	21.0	0.0	
40	PI2 BPSK	108	108	20.27	20.18	20.31			
40	PI2 BPSK	216	0	20.32	20.31	20.26	21.0	0.0	
40	QPSK	1	1	20.26	20.41	20.29			
40	QPSK	1	108	20.13	20.32	20.16	21.0	0.0	
40	QPSK	1	214	20.03	20.28	20.18			
40	QPSK	108	0	20.17	20.19	20.19	21.0	0.0	
40	QPSK	108	54	20.16	20.27	20.19	21.0	0.0	
40	QPSK	108	108	20.17	20.15	20.13			
40	QPSK	216	0	20.16	20.20	20.09	21.0	0.0	
40	16QAM	1	1	20.38	20.21	20.32	21.0	0.0	
40	64QAM	1	1	19.59	19.77	19.77	20.5	0.5	
40	256QAM	1	1	17.68	17.72	17.64	18.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.21	20.37	20.23	21.0	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.22	20.38	20.21	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.10	20.39	20.19	21.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.12	20.29	20.12	21.0	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.19	20.28	20.19	21.0	0.0	



n2 Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	19.61	19.68	19.69			
20	PI2 BPSK	1	53	19.64	19.68	19.53	20.5	0.0	
20	PI2 BPSK	1	104	19.25	19.53	19.36			
20	PI2 BPSK	50	0	19.32	19.54	19.49	20.5	0.0	
20	PI2 BPSK	50	28	19.62	19.58	19.59	20.5	0.0	
20	PI2 BPSK	50	56	19.34	19.50	19.27	20.5	0.0	
20	PI2 BPSK	100	0	19.40	19.60	19.40			
20	QPSK	1	1	19.64	19.76	19.62			
20	QPSK	1	53	19.74	19.71	19.64	20.5	0.0	
20	QPSK	1	104	19.29	19.38	19.34			
20	QPSK	50	0	19.61	19.62	19.55	20.5	0.0	
20	QPSK	50	28	19.60	19.65	19.61	20.5	0.0	
20	QPSK	50	56	19.41	19.46	19.38			
20	QPSK	100	0	19.44	19.63	19.38	20.5	0.0	
20	16QAM	1	1	19.58	19.70	19.64	20.5	0.0	
20	16QAM	1	1	19.41	19.55	19.38	20.5	0.0	
20	256QAM	1	1	18.74	18.78	18.65	19.5	1.0	
Channel				371500	376000	376500			
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	19.48	19.62	19.50	20.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1905	1930	1900			
10	QPSK	1	1	19.48	19.70	19.57	20.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	19.47	19.69	19.59	20.5	0.0	

n25 Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374500	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	19.70	19.81	19.76			
40	PI2 BPSK	1	108	19.71	19.79	19.60	20.5	0.0	
40	PI2 BPSK	1	214	19.36	19.60	19.50			
40	PI2 BPSK	108	0	19.42	19.73	19.58	20.5	0.0	
40	PI2 BPSK	108	54	19.75	19.70	19.79	20.5	0.0	
40	PI2 BPSK	108	108	19.48	19.59	19.38	20.5	0.0	
40	PI2 BPSK	216	0	19.60	19.69	19.52			
40	QPSK	1	1	19.79	19.82	19.68			
40	QPSK	1	108	19.81	19.80	19.77	20.5	0.0	
40	QPSK	1	214	19.40	19.52	19.52			
40	QPSK	108	0	19.69	19.71	19.60	20.5	0.0	
40	QPSK	108	54	19.71	19.76	19.67	20.5	0.0	
40	QPSK	108	108	19.51	19.63	19.51			
40	QPSK	216	0	19.58	19.69	19.44	20.5	0.0	
40	16QAM	1	1	19.76	19.80	19.81	20.5	0.0	
40	16QAM	1	1	19.52	19.70	19.54	20.5	0.0	
40	256QAM	1	1	18.92	18.93	18.72	19.5	1.0	
Channel				374000	376500	380000			
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	19.74	19.79	19.54	20.5	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1827.5	1822.5	1932.5			
25	QPSK	1	1	19.75	19.74	19.61	20.5	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	19.63	19.68	19.52	20.5	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1829.5	1882.5	1907.5			
15	QPSK	1	1	19.68	19.76	19.60	20.5	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	19.72	19.69	19.61	20.5	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	19.72	19.72	19.51	20.5	0.0	



n66 Ant 4 DS16 sig path: 184							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				345000	345000	350000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	20.47	20.52	20.48	
40	PI/2 BPSK	1	108	20.46	20.51	20.35	21.5
40	PI/2 BPSK	1	214	20.42	20.41	20.36	21.5
40	PI/2 BPSK	108	0	20.40	20.53	20.51	21.5
40	PI/2 BPSK	108	54	20.33	20.55	20.38	21.5
40	PI/2 BPSK	108	108	20.49	20.47	20.49	21.5
40	PI/2 BPSK	216	0	20.42	20.58	20.47	21.5
40	QPSK	1	1	20.62	20.67	20.60	21.5
40	QPSK	1	108	20.40	20.58	20.55	21.5
40	QPSK	1	214	20.36	20.43	20.29	21.5
40	QPSK	108	0	20.56	20.51	20.56	21.5
40	QPSK	108	54	20.42	20.62	20.49	21.5
40	QPSK	108	108	20.29	20.41	20.46	21.5
40	QPSK	216	0	20.43	20.50	20.38	21.5
40	16QAM	1	1	20.59	20.65	20.59	21.5
40	16QAM	1	1	20.47	20.51	20.47	21.5
40	256QAM	1	1	18.38	18.43	18.36	19.5
Channel				345000	345000	350000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	20.48	20.63	20.44	21.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	20.44	20.60	20.47	21.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	20.56	20.52	20.43	21.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	20.54	20.57	20.57	21.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	20.59	20.63	20.47	21.5

n66 Ant 4 DS16 sig path: 460							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				345000	349000	350000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.94	20.06	19.91	
40	PI/2 BPSK	1	108	20.01	20.06	19.86	21.5
40	PI/2 BPSK	1	214	19.99	19.90	19.91	21.5
40	PI/2 BPSK	108	0	19.87	20.08	19.86	21.5
40	PI/2 BPSK	108	54	19.90	20.01	19.81	21.5
40	PI/2 BPSK	108	108	20.03	20.02	19.99	21.5
40	PI/2 BPSK	216	0	19.91	19.99	20.01	21.5
40	QPSK	1	1	20.15	20.19	20.16	21.5
40	QPSK	1	108	19.94	20.14	20.02	21.5
40	QPSK	1	214	19.88	19.89	19.72	21.5
40	QPSK	108	0	20.10	19.98	20.09	21.5
40	QPSK	108	54	20.00	20.14	19.92	21.5
40	QPSK	108	108	19.77	19.87	19.91	21.5
40	QPSK	216	0	19.88	19.97	19.81	21.5
40	16QAM	1	1	20.06	20.12	20.09	21.5
40	16QAM	1	1	19.88	19.95	19.83	21.5
40	256QAM	1	1	17.89	18.05	17.88	19.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	20.00	20.01	20.06	21.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	20.03	19.97	20.10	21.5
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.99	20.07	20.00	21.5
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	20.04	20.08	20.08	21.5
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	20.02	19.98	20.12	21.5



Reduced Power Mode for Other PA DS16 ENDC

n2 Ant 0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	19.42	19.50	19.48			
20	PI/2 BPSK	1	53	19.25	19.45	19.45	21.0	0.0	
20	PI/2 BPSK	1	104	19.27	19.43	19.26			
20	PI/2 BPSK	80	0	19.41	19.58	19.40	21.0	0.0	
20	PI/2 BPSK	50	28	19.32	19.48	19.46	21.0	0.0	
20	PI/2 BPSK	50	56	19.49	19.49	19.46	21.0	0.0	
20	PI/2 BPSK	100	0	19.53	19.56	19.51			
20	QPSK	1	1	19.57	19.51	19.51			
20	QPSK	1	53	19.34	19.48	19.35	21.0	0.0	
20	QPSK	1	104	19.32	19.51	19.42			
20	QPSK	50	0	19.43	19.43	19.44	21.0	0.0	
20	QPSK	50	28	19.43	19.59	19.37	21.0	0.0	
20	QPSK	80	56	19.29	19.46	19.46			
20	QPSK	100	0	19.43	19.55	19.33	21.0	0.0	
20	16QAM	1	1	19.54	19.58	19.48	21.0	0.5	
20	64QAM	1	1	18.96	19.13	19.01	20.5	0.5	
20	256QAM	1	1	18.99	17.16	16.98	18.5	2.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	19.49	19.53	19.44	21.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	19.47	19.50	19.40	21.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	19.40	19.58	19.47	21.0	0.0	

n25 Ant 0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376500	376500	376500			
Frequency (MHz)				1870	1882.5	1895			
40	PI/2 BPSK	1	1	19.74	19.72	19.80			
40	PI/2 BPSK	1	108	19.45	19.72	19.66	21.0	0.0	
40	PI/2 BPSK	1	214	19.60	19.73	19.48			
40	PI/2 BPSK	108	0	19.72	19.81	19.75	21.0	0.0	
40	PI/2 BPSK	108	54	19.60	19.83	19.72	21.0	0.0	
40	PI/2 BPSK	108	108	19.80	19.73	19.80	21.0	0.0	
40	PI/2 BPSK	216	0	19.75	19.84	19.79			
40	QPSK	1	1	19.78	19.85	19.73			
40	QPSK	1	108	19.61	19.81	19.68	21.0	0.0	
40	QPSK	1	214	19.56	19.72	19.68			
40	QPSK	108	0	19.68	19.71	19.71	21.0	0.0	
40	QPSK	108	54	19.74	19.79	19.64	21.0	0.0	
40	QPSK	108	108	19.58	19.71	19.70	21.0	0.0	
40	QPSK	216	0	19.70	19.76	19.58			
40	16QAM	1	1	19.82	19.71	19.78	21.0	0.0	
40	64QAM	1	1	19.16	19.33	19.21	20.5	0.5	
40	256QAM	1	1	17.21	17.47	17.25	18.5	2.5	
Channel				376000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	19.65	19.72	19.58	21.0	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	19.71	19.74	19.84	21.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	19.72	19.82	19.65	21.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	19.63	19.82	19.63	21.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	19.64	19.79	19.62	21.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	19.74	19.81	19.63	21.0	0.0	



n66 Ant 0 DSI6 sig path: 184

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.20	20.16	20.24		
40	PI/2 BPSK	1	108	19.88	20.25	20.20	21.0	0.0
40	PI/2 BPSK	1	214	20.02	20.25	20.00		
40	PI/2 BPSK	108	0	20.25	20.31	20.23	21.0	0.0
40	PI/2 BPSK	108	54	20.04	20.37	20.28	21.0	0.0
40	PI/2 BPSK	108	108	20.22	20.15	20.28		
40	PI/2 BPSK	216	0	20.30	20.37	20.21	21.0	0.0
40	QPSK	1	1	20.23	20.39	20.15		
40	QPSK	1	108	20.11	20.37	20.18	21.0	0.0
40	QPSK	1	214	19.99	20.38	20.22		
40	QPSK	108	0	20.20	20.21	20.21	21.0	0.0
40	QPSK	108	54	20.20	20.28	20.20	21.0	0.0
40	QPSK	108	108	20.11	20.19	20.25		
40	QPSK	216	0	20.19	20.22	20.01	21.0	0.0
40	16QAM	1	1	20.33	20.22	20.27	21.0	0.5
40	64QAM	1	1	19.50	19.57	19.48	20.5	0.5
40	256QAM	1	1	17.73	17.82	17.68	18.5	2.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.09	20.28	20.10	21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.10	20.28	20.07	21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.08	20.34	20.05	21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.08	20.35	20.03	21.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.14	20.38	20.05	21.0	0.0

n66 Ant 0 DSI6 sig path: 460

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.18	20.11	20.27		
40	PI/2 BPSK	1	108	20.06	20.25	20.19	21.0	0.0
40	PI/2 BPSK	1	214	20.08	20.31	20.02		
40	PI/2 BPSK	108	0	20.28	20.34	20.15	21.0	0.0
40	PI/2 BPSK	108	54	20.03	20.31	20.25	21.0	0.0
40	PI/2 BPSK	108	108	20.27	20.18	20.31		
40	PI/2 BPSK	216	0	20.32	20.31	20.26	21.0	0.0
40	QPSK	1	1	20.26	20.41	20.29		
40	QPSK	1	108	20.13	20.32	20.16	21.0	0.0
40	QPSK	1	214	20.03	20.28	20.18		
40	QPSK	108	0	20.17	20.19	20.19	21.0	0.0
40	QPSK	108	54	20.16	20.27	20.19	21.0	0.0
40	QPSK	108	108	20.07	20.15	20.13		
40	QPSK	216	0	20.16	20.20	20.09	21.0	0.0
40	16QAM	1	1	20.38	20.21	20.32	21.0	0.0
40	64QAM	1	1	19.59	19.77	19.77	20.5	0.5
40	256QAM	1	1	17.66	17.72	17.64	18.5	2.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.21	20.37	20.23	21.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.22	20.38	20.21	21.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.10	20.39	20.19	21.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.12	20.29	20.12	21.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.19	20.28	20.19	21.0	0.0



n2 Ant 4 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.61	19.68	19.69	
20	PI/2 BPSK	1	53	19.64	19.68	19.53	20.5
20	PI/2 BPSK	1	104	19.25	19.53	19.36	0.0
20	PI/2 BPSK	50	0	19.32	19.54	19.49	20.5
20	PI/2 BPSK	50	28	19.62	19.58	19.59	20.5
20	PI/2 BPSK	50	56	19.34	19.50	19.27	20.5
20	PI/2 BPSK	100	0	19.40	19.60	19.40	0.0
20	QPSK	1	1	19.64	19.76	19.62	
20	QPSK	1	53	19.74	19.71	19.84	20.5
20	QPSK	1	104	19.29	19.38	19.34	
20	QPSK	50	0	19.61	19.62	19.55	20.5
20	QPSK	50	28	19.60	19.65	19.61	20.5
20	QPSK	50	56	19.41	19.46	19.38	20.5
20	QPSK	100	0	19.44	19.63	19.38	20.5
20	16QAM	1	1	19.58	19.70	19.64	20.5
20	16QAM	1	1	19.41	19.65	19.38	20.5
20	256QAM	1	1	18.74	18.79	18.65	19.5
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	1	19.48	19.62	19.50	20.5
Channel				371000	376000	381000	
Frequency (MHz)				1855	1870	1905	
10	QPSK	1	1	19.48	19.70	19.57	20.5
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	19.47	19.69	19.59	20.5

n25 Ant 4 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				376000	376000	376000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.70	19.81	19.76	
40	PI/2 BPSK	1	108	19.71	19.79	19.60	20.5
40	PI/2 BPSK	1	214	19.36	19.60	19.50	0.0
40	PI/2 BPSK	108	0	19.42	19.73	19.58	20.5
40	PI/2 BPSK	108	54	19.75	19.70	19.79	20.5
40	PI/2 BPSK	108	108	19.48	19.59	19.38	20.5
40	PI/2 BPSK	216	0	19.60	19.69	19.52	0.0
40	QPSK	1	1	19.79	19.82	19.68	
40	QPSK	1	108	19.81	19.80	19.77	20.5
40	QPSK	1	214	19.40	19.52	19.52	
40	QPSK	108	0	19.69	19.71	19.60	20.5
40	QPSK	108	54	19.71	19.76	19.67	20.5
40	QPSK	108	108	19.51	19.63	19.51	20.5
40	QPSK	216	0	19.58	19.69	19.44	20.5
40	16QAM	1	1	19.76	19.80	19.81	20.5
40	16QAM	1	1	19.52	19.70	19.54	20.5
40	256QAM	1	1	18.92	18.93	18.72	19.5
Channel				375500	376000	380500	
Frequency (MHz)				1865	1882.5	1900	
30	QPSK	1	1	19.74	19.79	19.84	20.5
Channel				375000	376000	380600	
Frequency (MHz)				1862.5	1872.5	1902.5	
25	QPSK	1	1	19.75	19.74	19.61	20.5
Channel				372000	376000	381000	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	1	19.63	19.68	19.52	20.5
Channel				371500	376000	381500	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	1	19.66	19.78	19.60	20.5
Channel				371000	376000	382000	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	1	19.72	19.69	19.61	20.5
Channel				370500	376000	382500	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	1	19.72	19.72	19.51	20.5



n66 Ant 4 DS16 sig path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.62	18.56	18.57			
40	PI2 BPSK	1	108	18.61	18.67	18.56	19.5	0.0	
40	PI2 BPSK	1	214	18.48	18.69	18.65			
40	PI2 BPSK	108	0	18.58	18.72	18.47	19.5	0.0	
40	PI2 BPSK	108	54	18.65	18.70	18.48	19.5	0.0	
40	PI2 BPSK	108	108	18.59	18.53	18.55	19.5	0.0	
40	PI2 BPSK	216	0	18.65	18.61	18.62			
40	QPSK	1	1	18.66	18.78	18.58			
40	QPSK	1	108	18.68	18.75	18.64	19.5	0.0	
40	QPSK	1	214	18.68	18.71	18.48			
40	QPSK	108	0	18.64	18.68	18.57	19.5	0.0	
40	QPSK	108	54	18.60	18.69	18.62	19.5	0.0	
40	QPSK	108	108	18.57	18.60	18.63	19.5	0.0	
40	QPSK	216	0	18.54	18.62	18.49			
40	16QAM	1	1	18.58	18.68	18.45	19.5	0.0	
40	16QAM	1	1	18.71	18.65	18.54	19.5	0.0	
40	256QAM	1	1	18.60	18.63	18.61	19.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.69	18.68	18.48	19.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.58	18.55	18.57	19.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.60	18.68	18.58	19.5	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.51	18.69	18.45	19.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.66	18.70	18.61	19.5	0.0	

n66 Ant 4 DS16 sig path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	17.98	18.03	18.05			
40	PI2 BPSK	1	108	17.99	18.07	18.20	19.5	0.0	
40	PI2 BPSK	1	214	18.19	18.02	18.19			
40	PI2 BPSK	108	0	18.16	18.15	18.04	19.5	0.0	
40	PI2 BPSK	108	54	18.14	18.17	18.00	19.5	0.0	
40	PI2 BPSK	108	108	17.97	18.06	18.07	19.5	0.0	
40	PI2 BPSK	216	0	17.98	18.00	18.09			
40	QPSK	1	1	18.02	18.24	18.07			
40	QPSK	1	108	17.96	18.13	18.17	19.5	0.0	
40	QPSK	1	214	18.20	18.22	18.20			
40	QPSK	108	0	18.05	18.05	18.13	19.5	0.0	
40	QPSK	108	54	17.97	18.19	18.15	19.5	0.0	
40	QPSK	108	108	18.00	18.06	18.09			
40	QPSK	216	0	18.03	18.05	18.00	19.5	0.0	
40	16QAM	1	1	18.05	18.03	18.18	19.5	0.0	
40	16QAM	1	1	17.98	18.00	18.20	19.5	0.0	
40	256QAM	1	1	18.16	18.20	18.03	19.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.08	18.13	17.99	19.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.04	18.11	18.03	19.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.04	18.12	18.08	19.5	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.17	18.17	18.10	19.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.02	18.19	18.12	19.5	0.0	



Reduced Power Mode for Other PA DSI7 Standalone

n2 Ant 0 DSI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000		
Channel								
Frequency (MHz)								
20	PI/2 BPSK	1	1	14.02	14.21	14.19	15.5	0.0
20	PI/2 BPSK	1	53	13.88	14.17	14.06		
20	PI/2 BPSK	1	104	13.92	14.17	13.91		
20	PI/2 BPSK	50	0	13.83	13.88	13.67	15.5	0.0
20	PI/2 BPSK	50	28	13.98	14.24	14.11	15.5	0.0
20	PI/2 BPSK	50	56	13.95	13.95	13.78	15.5	0.0
20	PI/2 BPSK	100	0	13.97	13.97	13.98	15.5	0.0
20	QPSK	1	1	14.17	14.31	14.20	15.5	0.0
20	QPSK	1	53	14.12	14.29	14.06		
20	QPSK	1	104	14.08	14.22	14.22		
20	QPSK	50	0	14.01	14.08	13.98	15.5	0.0
20	QPSK	50	28	14.08	14.15	14.03	15.5	0.0
20	QPSK	50	56	13.99	14.02	14.03	15.5	0.0
20	QPSK	100	0	14.08	14.15	13.89	15.5	0.0
20	16QAM	1	1	14.14	14.18	14.10	15.5	0.0
20	64QAM	1	1	14.08	14.28	14.00	15.5	0.0
20	256QAM	1	1	13.91	14.14	13.90	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.10	14.19	14.12	15.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.09	14.21	14.15	15.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	14.11	14.28	14.06	15.5	0.0

n25 Ant 0 DSI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 374000	Middle Ch. / Freq. 378000	High Ch. / Freq. 382000		
Channel								
Frequency (MHz)								
40	PI/2 BPSK	1	1	14.44	14.53	14.38	15.5	0.0
40	PI/2 BPSK	1	108	14.08	14.42	14.35		
40	PI/2 BPSK	1	214	14.22	14.28	14.14		
40	PI/2 BPSK	108	0	14.04	14.09	14.00	15.5	0.0
40	PI/2 BPSK	108	54	14.24	14.40	14.42	15.5	0.0
40	PI/2 BPSK	108	108	14.05	14.14	14.17	15.5	0.0
40	PI/2 BPSK	216	0	14.26	14.23	14.05	15.5	0.0
40	QPSK	1	1	14.44	14.52	14.34	15.5	0.0
40	QPSK	1	108	14.16	14.41	14.23		
40	QPSK	1	214	14.25	14.44	14.35		
40	QPSK	108	0	14.22	14.32	14.31	15.5	0.0
40	QPSK	108	54	14.34	14.38	14.22	15.5	0.0
40	QPSK	108	108	14.01	14.25	14.38	15.5	0.0
40	QPSK	216	0	14.32	14.50	14.21	15.5	0.0
40	16QAM	1	1	14.48	14.44	14.30	15.5	0.0
40	64QAM	1	1	14.32	14.42	14.38	15.5	0.0
40	256QAM	1	1	14.15	14.27	14.22	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.34	14.39	14.28	15.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.32	14.35	14.32	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.35	14.44	14.30	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.24	14.41	14.29	15.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.30	14.37	14.18	15.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	14.38	14.44	14.19	15.5	0.0



n66 Ant 0 DS17 sig path: 184									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	352000			
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	16.16	16.26	16.27	17.0	0.0	
40	PI2 BPSK	1	108	16.12	16.23	16.20			
40	PI2 BPSK	1	214	16.96	16.20	16.17			
40	PI2 BPSK	108	0	15.92	15.97	15.82	17.0	0.0	
40	PI2 BPSK	108	54	16.12	16.26	16.38	17.0	0.0	
40	PI2 BPSK	108	108	15.97	16.15	15.91			
40	PI2 BPSK	216	0	15.97	16.02	16.00	17.0	0.0	
40	QPSK	1	1	16.31	16.42	16.37			
40	QPSK	1	108	16.22	16.19	16.13	17.0	0.0	
40	QPSK	1	214	15.99	16.26	16.30			
40	QPSK	108	0	16.16	16.19	16.20	17.0	0.0	
40	QPSK	108	54	16.29	16.33	16.30	17.0	0.0	
40	QPSK	108	108	16.90	16.10	16.15	17.0	0.0	
40	QPSK	216	0	16.14	16.23	16.07			
40	16QAM	1	1	16.32	16.31	16.28	17.0	0.0	
40	64QAM	1	1	16.18	16.34	16.19	17.0	0.0	
40	256QAM	1	1	16.06	16.21	16.14	17.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.11	16.30	16.17	17.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.07	16.33	16.26	17.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.04	16.33	16.15	17.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.04	16.27	16.18	17.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.07	16.26	16.19	17.0	0.0	

n66 Ant 0 DS17 sig path: 460									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	352000			
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	16.15	16.21	16.26			
40	PI2 BPSK	1	108	16.01	16.12	16.19	17.0	0.0	
40	PI2 BPSK	1	214	16.08	16.07	16.09			
40	PI2 BPSK	108	0	16.09	16.02	16.04	17.0	0.0	
40	PI2 BPSK	108	54	16.06	16.06	16.22	17.0	0.0	
40	PI2 BPSK	108	108	16.08	16.04	16.01			
40	PI2 BPSK	216	0	16.03	16.06	16.05	17.0	0.0	
40	QPSK	1	1	16.27	16.32	16.17			
40	QPSK	1	108	16.11	16.11	16.08	17.0	0.0	
40	QPSK	1	214	16.09	16.23	16.12			
40	QPSK	108	0	16.07	16.10	16.06	17.0	0.0	
40	QPSK	108	54	16.11	16.18	16.04	17.0	0.0	
40	QPSK	108	108	16.03	16.07	16.03			
40	QPSK	216	0	16.01	16.10	16.01	17.0	0.0	
40	16QAM	1	1	16.17	16.24	16.28	17.0	0.0	
40	64QAM	1	1	16.12	16.14	16.07	17.0	0.0	
40	256QAM	1	1	16.02	16.13	16.01	17.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.10	16.19	16.08	17.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.23	16.28	16.10	17.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.16	16.26	16.10	17.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.23	16.25	16.14	17.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.09	16.18	16.04	17.0	0.0	



n2 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	14.25	14.18	14.28			
20	PI2 BPSK	1	53	14.25	14.27	14.22	15.0	0.0	
20	PI2 BPSK	1	104	14.13	14.29	14.01			
20	PI2 BPSK	50	0	13.99	14.13	14.12	15.0	0.0	
20	PI2 BPSK	50	28	14.12	14.03	14.10	15.0	0.0	
20	PI2 BPSK	50	56	13.97	14.20	14.15	15.0	0.0	
20	PI2 BPSK	100	0	14.22	14.19	14.08			
20	QPSK	1	1	14.27	14.40	14.38			
20	QPSK	1	53	14.10	14.10	14.27	15.0	0.0	
20	QPSK	1	104	14.17	13.97	14.17			
20	QPSK	50	0	14.07	14.02	14.12	15.0	0.0	
20	QPSK	50	28	14.14	14.37	14.21	15.0	0.0	
20	QPSK	50	56	14.24	14.27	14.17	15.0	0.0	
20	QPSK	100	0	14.14	14.25	14.19			
20	16QAM	1	1	14.08	14.08	14.16	15.0	0.0	
20	64QAM	1	1	14.20	14.18	14.20	15.0	0.0	
20	256QAM	1	1	14.02	14.24	13.95	15.0	0.0	
Channel				371000	376000	380500			
Frequency (MHz)				1897.5	1890	1902.5			
15	QPSK	1	1	14.13	14.25	14.22	15.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1905	1890	1905			
10	QPSK	1	1	14.23	14.28	14.30	15.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1892.5	1880	1907.5			
5	QPSK	1	1	14.24	14.28	14.36	15.0	0.0	

n25 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				374500	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	14.33	14.32	14.36			
40	PI2 BPSK	1	108	14.38	14.47	14.32	15.0	0.0	
40	PI2 BPSK	1	214	14.31	14.43	14.06			
40	PI2 BPSK	108	0	14.06	14.28	14.16	15.0	0.0	
40	PI2 BPSK	108	54	14.18	14.17	14.28	15.0	0.0	
40	PI2 BPSK	108	108	14.08	14.29	14.33	15.0	0.0	
40	PI2 BPSK	216	0	14.41	14.28	14.27			
40	QPSK	1	1	14.32	14.50	14.49			
40	QPSK	1	108	14.28	14.24	14.42	15.0	0.0	
40	QPSK	1	214	14.37	14.13	14.29			
40	QPSK	108	0	14.22	14.10	14.23	15.0	0.0	
40	QPSK	108	54	14.30	14.53	14.41	15.0	0.0	
40	QPSK	108	108	14.39	14.41	14.36	15.0	0.0	
40	QPSK	216	0	14.21	14.48	14.32			
40	16QAM	1	1	14.19	14.19	14.31	15.0	0.0	
40	64QAM	1	1	14.25	14.35	14.33	15.0	0.0	
40	256QAM	1	1	14.08	14.29	14.05	15.0	0.0	
Channel				373500	376500	380000			
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	14.21	14.46	14.44	15.0	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	14.20	14.43	14.41	15.0	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	14.22	14.51	14.44	15.0	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	14.28	14.56	14.39	15.0	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	14.38	14.41	14.82	15.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	14.20	14.53	14.31	15.0	0.0	



n66 Ant 4 DS17 sig path: 184								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.59	15.53	15.48		
40	PI/2 BPSK	1	108	15.61	15.55	15.47	16.5	0.0
40	PI/2 BPSK	1	214	15.33	15.66	15.44		
40	PI/2 BPSK	108	0	15.55	15.40	15.49	16.5	0.0
40	PI/2 BPSK	108	54	15.62	15.56	15.51	16.5	0.0
40	PI/2 BPSK	108	108	15.52	15.31	15.51	16.5	0.0
40	PI/2 BPSK	216	0	15.56	15.68	15.56		
40	QPSK	1	1	15.68	15.75	15.50		
40	QPSK	1	108	15.44	15.54	15.43	16.5	0.0
40	QPSK	1	214	15.47	15.43	15.49		
40	QPSK	108	0	15.44	15.56	15.56	16.5	0.0
40	QPSK	108	54	15.61	15.71	15.55	16.5	0.0
40	QPSK	108	108	15.56	15.60	15.56	16.5	0.0
40	QPSK	216	0	15.56	15.63	15.56		
40	16QAM	1	1	15.37	15.49	15.63	16.5	0.0
40	16QAM	1	1	15.68	15.55	15.53	16.5	0.0
40	256QAM	1	1	15.59	15.69	15.49	16.5	0.0
Channel				345000	345000	350000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.58	15.69	15.40	16.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.51	15.69	15.41	16.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.53	15.64	15.36	16.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.51	15.69	15.46	16.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.62	15.60	15.43	16.5	0.0

n66 Ant 4 DS17 sig path: 460								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.10	14.97	14.91		
40	PI/2 BPSK	1	108	14.94	14.94	14.87	16.5	0.0
40	PI/2 BPSK	1	214	14.80	15.14	14.83		
40	PI/2 BPSK	108	0	15.03	14.75	14.92	16.5	0.0
40	PI/2 BPSK	108	54	14.99	15.01	14.98	16.5	0.0
40	PI/2 BPSK	108	108	14.77	14.72	14.87	16.5	0.0
40	PI/2 BPSK	216	0	15.04	15.00	14.93		
40	QPSK	1	1	14.96	15.27	15.01		
40	QPSK	1	108	14.90	14.84	14.94	16.5	0.0
40	QPSK	1	214	14.71	14.90	14.90		
40	QPSK	108	0	14.91	14.67	15.10	16.5	0.0
40	QPSK	108	54	15.04	15.23	15.00	16.5	0.0
40	QPSK	108	108	15.00	15.09	14.97	16.5	0.0
40	QPSK	216	0	15.03	15.18	15.17		
40	16QAM	1	1	14.94	14.82	14.88	16.5	0.0
40	16QAM	1	1	15.06	15.06	14.90	16.5	0.0
40	256QAM	1	1	14.87	15.06	14.93	16.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	14.87	15.10	14.93	16.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	14.80	15.14	14.98	16.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	14.79	15.23	14.89	16.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	14.91	15.25	14.96	16.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	14.80	15.09	14.90	16.5	0.0



Reduced Power Mode for Other PA DS17 ENDC

n2 Ant 0 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	14.02	14.21	14.19			
20	PI/2 BPSK	1	53	13.88	14.17	14.08	15.5	0.0	
20	PI/2 BPSK	1	104	13.92	14.17	13.91			
20	PI/2 BPSK	50	0	13.83	13.98	13.67	15.5	0.0	
20	PI/2 BPSK	50	28	13.90	14.24	14.11	15.5	0.0	
20	PI/2 BPSK	50	56	13.93	13.95	13.78	15.5	0.0	
20	PI/2 BPSK	100	0	13.97	13.97	13.96			
20	QPSK	1	1	14.17	14.31	14.20			
20	QPSK	1	53	14.12	14.29	14.08	15.5	0.0	
20	QPSK	1	104	14.03	14.22	14.22			
20	QPSK	50	0	14.01	14.08	13.88	15.5	0.0	
20	QPSK	50	28	14.08	14.19	14.03	15.5	0.0	
20	QPSK	50	56	13.99	14.02	14.03			
20	QPSK	100	0	14.06	14.15	13.89	15.5	0.0	
20	16QAM	1	1	14.14	14.18	14.10	15.5	0.0	
20	64QAM	1	1	14.09	14.26	14.00	15.5	0.0	
20	256QAM	1	1	13.91	14.14	13.90	15.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	14.10	14.18	14.12	15.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	14.00	14.21	14.15	15.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	14.11	14.26	14.06	15.5	0.0	

n25 Ant 0 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376500	376500	376500			
Frequency (MHz)				1870	1892.5	1895			
40	PI/2 BPSK	1	1	14.44	14.43	14.36			
40	PI/2 BPSK	1	108	14.08	14.42	14.35	15.5	0.0	
40	PI/2 BPSK	1	214	14.22	14.28	14.14			
40	PI/2 BPSK	108	0	14.04	14.09	14.00	15.5	0.0	
40	PI/2 BPSK	108	54	14.24	14.40	14.42	15.5	0.0	
40	PI/2 BPSK	108	108	14.05	14.14	14.17	15.5	0.0	
40	PI/2 BPSK	216	0	14.28	14.23	14.05			
40	QPSK	1	1	14.44	14.52	14.34			
40	QPSK	1	108	14.18	14.41	14.23	15.5	0.0	
40	QPSK	1	214	14.25	14.44	14.35			
40	QPSK	108	0	14.22	14.32	14.31	15.5	0.0	
40	QPSK	108	54	14.34	14.48	14.22	15.5	0.0	
40	QPSK	108	108	14.01	14.25	14.36	15.5	0.0	
40	QPSK	216	0	14.32	14.44	14.21			
40	16QAM	1	1	14.35	14.40	14.30	15.5	0.0	
40	64QAM	1	1	14.32	14.42	14.39	15.5	0.0	
40	256QAM	1	1	14.15	14.27	14.22	15.5	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1892.5	1900			
30	QPSK	1	1	14.34	14.39	14.26	15.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1892.5	1902.5			
25	QPSK	1	1	14.32	14.36	14.32	15.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1892.5	1905			
20	QPSK	1	1	14.35	14.44	14.30	15.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1892.5	1907.5			
15	QPSK	1	1	14.24	14.44	14.25	15.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1892.5	1910			
10	QPSK	1	1	14.30	14.37	14.18	15.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1892.5	1912.5			
5	QPSK	1	1	14.38	14.44	14.19	15.5	0.0	



n66 Ant 0 DS17 sig path: 184									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	16.16	16.26	16.27			
40	PI/2 BPSK	1	108	16.12	16.23	16.20	17.0	0.0	
40	PI/2 BPSK	1	214	15.96	16.20	16.17			
40	PI/2 BPSK	108	0	15.92	15.97	15.92	17.0	0.0	
40	PI/2 BPSK	108	54	16.12	16.26	16.38	17.0	0.0	
40	PI/2 BPSK	108	108	15.97	16.15	15.91	17.0	0.0	
40	PI/2 BPSK	216	0	15.97	16.02	16.00			
40	QPSK	1	1	16.31	16.42	16.37			
40	QPSK	1	108	16.22	16.19	16.13	17.0	0.0	
40	QPSK	1	214	15.99	16.28	16.30			
40	QPSK	108	0	16.16	16.19	16.20	17.0	0.0	
40	QPSK	108	54	16.29	16.33	16.30	17.0	0.0	
40	QPSK	108	108	15.90	16.10	16.15	17.0	0.0	
40	QPSK	216	0	16.14	16.23	16.07			
40	16QAM	1	1	16.32	16.31	16.28	17.0	0.0	
40	64QAM	1	1	16.18	16.34	16.19	17.0	0.0	
40	256QAM	1	1	16.06	16.21	16.14	17.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.11	16.39	16.17	17.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.07	16.33	16.26	17.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.04	16.33	16.15	17.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.04	16.27	16.16	17.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.07	16.26	16.19	17.0	0.0	

n66 Ant 0 DS17 sig path: 460									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	16.15	16.21	16.26			
40	PI/2 BPSK	1	108	16.01	16.12	16.19	17.0	0.0	
40	PI/2 BPSK	1	214	16.08	16.07	16.09			
40	PI/2 BPSK	108	0	16.09	16.02	16.04	17.0	0.0	
40	PI/2 BPSK	108	54	16.08	16.05	16.22	17.0	0.0	
40	PI/2 BPSK	108	108	16.08	16.04	16.01	17.0	0.0	
40	PI/2 BPSK	216	0	16.03	16.06	16.05			
40	QPSK	1	1	16.27	16.32	16.17			
40	QPSK	1	108	16.11	16.11	16.08	17.0	0.0	
40	QPSK	1	214	16.09	16.23	16.12			
40	QPSK	108	0	16.07	16.10	16.06	17.0	0.0	
40	QPSK	108	54	16.11	16.18	16.04	17.0	0.0	
40	QPSK	108	108	16.03	16.07	16.03	17.0	0.0	
40	QPSK	216	0	16.01	16.10	16.01			
40	16QAM	1	1	16.17	16.24	16.28	17.0	0.0	
40	64QAM	1	1	16.12	16.14	16.07	17.0	0.0	
40	256QAM	1	1	16.02	16.13	16.01	17.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.10	16.19	16.08	17.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.23	16.28	16.10	17.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.16	16.26	16.10	17.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.23	16.25	16.14	17.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.09	16.18	16.04	17.0	0.0	



n2 Ant 4 DSI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	Pl/2 BPSK	1	1	14.26	14.18	14.28		
20	Pl/2 BPSK	1	53	14.25	14.27	14.22	15.0	0.0
20	Pl/2 BPSK	1	104	14.13	14.29	14.01		
20	Pl/2 BPSK	50	0	13.99	14.13	14.12	15.0	0.0
20	Pl/2 BPSK	50	28	14.12	14.03	14.10	15.0	0.0
20	Pl/2 BPSK	50	56	13.97	14.20	14.15	15.0	0.0
20	Pl/2 BPSK	100	0	14.22	14.19	14.08		
20	QPSK	1	1	14.27	14.40	14.36		
20	QPSK	1	53	14.10	14.30	14.27	15.0	0.0
20	QPSK	1	104	14.17	13.97	14.17		
20	QPSK	50	0	14.07	14.02	14.12	15.0	0.0
20	QPSK	50	28	14.14	14.37	14.21	15.0	0.0
20	QPSK	50	56	14.24	14.27	14.17	15.0	0.0
20	QPSK	100	0	14.14	14.29	14.19		
20	16QAM	1	1	14.08	14.08	14.16	15.0	0.0
20	16QAM	1	1	14.20	14.18	14.20	15.0	0.0
20	256QAM	1	1	14.02	14.24	13.95	15.0	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	14.13	14.25	14.22	15.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	14.23	14.29	14.30	15.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	14.24	14.28	14.36	15.0	0.0

n25 Ant 4 DSI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				376000	376000	376000		
Frequency (MHz)				1870	1882.5	1895		
40	Pl/2 BPSK	1	1	14.33	14.32	14.36		
40	Pl/2 BPSK	1	108	14.38	14.47	14.32	15.0	0.0
40	Pl/2 BPSK	1	214	14.31	14.43	14.06		
40	Pl/2 BPSK	108	0	14.06	14.28	14.16	15.0	0.0
40	Pl/2 BPSK	108	54	14.18	14.17	14.28	15.0	0.0
40	Pl/2 BPSK	108	108	14.08	14.29	14.33	15.0	0.0
40	Pl/2 BPSK	216	0	14.41	14.28	14.27		
40	QPSK	1	1	14.32	14.39	14.49		
40	QPSK	1	108	14.26	14.24	14.42	15.0	0.0
40	QPSK	1	214	14.37	14.13	14.29		
40	QPSK	108	0	14.22	14.10	14.23	15.0	0.0
40	QPSK	108	54	14.30	14.53	14.41	15.0	0.0
40	QPSK	108	108	14.36	14.41	14.36		
40	QPSK	216	0	14.21	14.48	14.32	15.0	0.0
40	16QAM	1	1	14.19	14.19	14.31	15.0	0.0
40	16QAM	1	1	14.25	14.35	14.33	15.0	0.0
40	256QAM	1	1	14.06	14.29	14.05	15.0	0.0
Channel				375500	376000	380500		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	14.21	14.46	14.44	15.0	0.0
Channel				375000	376000	380600		
Frequency (MHz)				1862.5	1882.5	1902.5		
25	QPSK	1	1	14.23	14.43	14.41	15.0	0.0
Channel				372000	376000	381000		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	1	14.22	14.51	14.44	15.0	0.0
Channel				371500	376000	381500		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	14.26	14.58	14.39	15.0	0.0
Channel				371000	376000	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	14.18	14.61	14.52	15.0	0.0
Channel				370500	376000	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	14.20	14.53	14.31	15.0	0.0



n66 Ant 4 DSI7 sig path: 184									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	12.51	12.64	12.54			
40	PI2 BPSK	1	108	12.53	12.64	12.44	13.5	0.0	
40	PI2 BPSK	1	214	12.47	12.74	12.43			
40	PI2 BPSK	108	0	12.47	12.32	12.53	13.5	0.0	
40	PI2 BPSK	108	54	12.77	12.81	12.60	13.5	0.0	
40	PI2 BPSK	108	108	12.62	12.45	12.48	13.5	0.0	
40	PI2 BPSK	216	0	12.57	12.75	12.68			
40	QPSK	1	1	12.89	12.78	12.72			
40	QPSK	1	108	12.35	12.58	12.39	13.5	0.0	
40	QPSK	1	214	12.51	12.43	12.57			
40	QPSK	108	0	12.83	12.71	12.56	13.5	0.0	
40	QPSK	108	54	12.81	12.74	12.69	13.5	0.0	
40	QPSK	108	108	12.70	12.60	12.86	13.5	0.0	
40	QPSK	216	0	12.53	12.83	12.63			
40	16QAM	1	1	12.32	12.42	12.54	13.5	0.0	
40	64QAM	1	1	12.78	12.58	12.63	13.5	0.0	
40	256QAM	1	1	12.86	12.67	12.64	13.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	12.66	12.54	12.49	13.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	12.82	12.65	12.62	13.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	12.72	12.59	12.44	13.5	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	12.54	12.66	12.63	13.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	12.58	12.71	12.42	13.5	0.0	

n66 Ant 4 DSI7 sig path: 460									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	12.07	11.97	11.91			
40	PI2 BPSK	1	108	11.93	11.90	11.75	13.5	0.0	
40	PI2 BPSK	1	214	11.70	12.16	11.85			
40	PI2 BPSK	108	0	11.93	11.60	11.85	13.5	0.0	
40	PI2 BPSK	108	54	11.85	12.01	11.95	13.5	0.0	
40	PI2 BPSK	108	108	11.78	11.67	11.89	13.5	0.0	
40	PI2 BPSK	216	0	12.03	11.94	11.92			
40	QPSK	1	1	12.01	12.22	12.18			
40	QPSK	1	108	11.87	11.70	11.78	13.5	0.0	
40	QPSK	1	214	11.62	11.89	11.96			
40	QPSK	108	0	12.03	12.07	11.86	13.5	0.0	
40	QPSK	108	54	12.07	12.15	12.03	13.5	0.0	
40	QPSK	108	108	12.07	12.07	12.02	13.5	0.0	
40	QPSK	216	0	12.05	12.11	12.07			
40	16QAM	1	1	11.94	11.87	11.92	13.5	0.0	
40	64QAM	1	1	11.95	11.99	11.88	13.5	0.0	
40	256QAM	1	1	11.89	12.04	11.83	13.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	11.90	11.99	11.94	13.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	12.06	11.95	11.80	13.5	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	12.09	11.96	11.89	13.5	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	11.95	11.87	11.88	13.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	11.98	11.96	11.78	13.5	0.0	



Bluetooth/WLAN Power

Ant 6	Mode	Channel	Full Power		Head Standalone		Body worn Standalone		Head Simultaneous		Body worn Simultaneous		Extremity Standalone		Hotspot&Extremity Simultaneous		Duty Cycle %	
			Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)		Tune-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.18	21.50	17.65	19.00	16.57	18.50	13.76	15.00	12.21	13.50	18.95	20.50	13.61	15.00	99.36
		6	2437	20.44	22.00	17.95	19.50	16.87	18.50	14.01	15.50	12.52	14.00	19.24	21.00	13.90	15.50	
		11	2462	20.35	22.00	17.71	19.50	16.77	18.50	13.82	15.50	12.20	14.00	19.02	21.00	13.69	15.50	
	802.11g 6Mbps	1	2412	20.35	22.00	17.80	19.50	16.78	18.50	15.00	12.41	14.00	19.15	21.00	15.00	15.00	98.27	
		6	2437	20.29	22.00	17.75	19.50	16.77	18.50	15.00	12.34	14.00	19.06	21.00	15.00	15.00		
		11	2462	20.13	21.50	17.61	19.00	16.85	18.00	15.00	12.27	13.50	18.90	20.50	15.00	15.00		
	802.11n-HT20 MCS0	1	2412	19.91	21.50	17.44	19.00	16.57	18.00	Not Request	13.50	Not Request	13.50	Not Request	Not Request	15.00	98.15	
		6	2437	20.19	21.50	17.71	19.00	16.67	18.00	Not Request	15.00	Not Request	13.50	Not Request	Not Request	15.00		
		11	2462	19.20	20.50	17.78	18.00	16.78	17.00	Not Request	15.00	Not Request	13.50	Not Request	Not Request	15.00		
	802.11n-HT40 MCS0	3	2422	15.37	17.00	15.37	17.00	15.37	17.00	Not Request	15.00	Not Request	13.50	Not Request	Not Request	15.00	94.91	
		6	2437	18.32	19.50	17.82	19.00	16.85	18.00	Not Request	13.50	Not Request	13.50	Not Request	Not Request	15.00		
		9	2452	16.41	18.00	16.41	18.00	16.41	18.00	Not Request	15.00	Not Request	13.50	Not Request	Not Request	15.00		

Ant 6	Mode	Channel	Full Power		Head Standalone		Head Simultaneous		Body worn Standalone		Body worn Simultaneous		Hotspot Simultaneous		Extremity Simultaneous		Duty Cycle %
			Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.62	21.50	16.03	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	17.00	98.26	
		40	5200	19.62	21.50	16.11	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	17.00		
		44	5220	19.74	21.50	16.14	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	17.00		
	802.11n-HT20 MCS0	36	5180	19.40	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request	98.14	
		40	5200	19.46	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request		
		44	5220	19.42	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request		
	802.11n-HT40 MCS0	36	5180	19.70	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request	96.30	
		40	5200	19.50	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	15.66	17.00		
		44	5220	19.61	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	15.78	17.00		
	802.11ac-VHT20 MCS0	38	5190	19.43	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request	98.16	
		40	5200	19.50	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request		
		44	5220	19.61	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request		
	802.11ac-VHT40 MCS0	38	5190	15.31	17.00	15.31	17.00	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request	96.30	
		40	5200	18.21	20.00	17.50	17.50	Not Request	13.50	Not Request	14.00	9.00	12.00	17.00	Not Request		
		42	5210	14.25	16.00	16.00	16.00	Not Request	11.70	13.50	12.21	14.00	7.21	9.00	10.36		12.00

Ant 6	Mode	Channel	Full Power		Head Standalone		Head Simultaneous		Body worn Standalone		Body worn Simultaneous		Extremity Simultaneous		Duty Cycle %
			Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.89	21.50	16.25	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	98.26
		56	5280	19.92	21.50	16.33	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
		60	5300	19.75	21.50	16.21	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
	802.11n-HT20 MCS0	52	5260	19.75	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	98.14
		56	5280	19.73	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
		60	5300	19.60	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
	802.11n-HT40 MCS0	52	5260	19.54	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	96.30
		54	5270	18.42	20.00	17.50	17.50	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
		62	5310	17.15	18.50	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
	802.11ac-VHT20 MCS0	52	5260	19.75	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	98.16
		56	5280	19.76	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
		60	5300	19.64	21.00	18.00	18.00	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
	802.11ac-VHT40 MCS0	54	5270	18.49	20.00	17.50	17.50	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	96.30
		62	5310	17.22	18.50	17.50	17.50	Not Request	13.50	Not Request	14.00	9.00	17.50	17.50	
		58	5290	15.37	17.00	17.00	17.00	Not Request	11.75	13.50	12.33	14.00	7.41	9.00	

Ant 6	Mode	Channel	Full Power		Head Standalone		Head Simultaneous		Body worn Standalone		Body worn Simultaneous		Extremity Simultaneous		Duty Cycle %
			Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.44	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00	98.26	
		116	5580	19.28	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		124	5620	19.61	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		132	5660	19.44	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		140	5700	19.54	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		144	5720	19.43	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
	802.11n-HT20 MCS0	100	5500	19.46	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00	98.14	
		116	5580	19.75	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		124	5620	19.64	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		132	5660	19.34	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		140	5700	19.47	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		144	5720	19.37	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
	802.11n-HT40 MCS0	102	5510	18.43	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00	96.30	
		110	5550	18.68	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		126	5630	18.79	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		134	5670	18.27	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		142	5710	18.48	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		150	5750	19.37	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
	802.11ac-VHT20 MCS0	116	5580	19.94	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00	98.16	
		124	5620	19.89	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		132	5660	19.73	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		140	5700	19.82	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		144	5720	19.62	21.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		152	5760	19.45	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
	802.11ac-VHT40 MCS0	110	5550	18.77	20.50	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00	96.30	
		126	5630	18.86	20.50	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		134	5670	18.34	20.00	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		142	5710	18.84	20.50	15.50	18.00	Not Request	16.50	Not Request	12.50	18.00	18.00		
		150	5750	17.69	19.50	13.71	15.50	14.60	16.50	10.71	12.50	16.14	18.00		
		158	5795	18.11	19.50	13.62	15.50	14.57	16.50	10.75	12.50	16.25	18.00		



Mode	Channel	Frequency (MHz)	Ant 6			Tune-up Limit
			Average power (dBm)			
BR / EDR	CH 00	2402	13.81	11.61	11.95	15.50
	CH 39	2441	14.74	12.25	12.42	16.00
	CH 78	2480	14.59	12.30	12.31	16.00

Channel	Frequency (MHz)	Ant 6 Simultaneous			Tune-up Limit
		Average power (dBm)			
CH 00	2402	12.13	9.41	9.31	13.50
CH 39	2441	12.84	9.94	9.46	14.00
CH 78	2480	12.77	9.63	10.02	14.00

BLE 1M

Mode	Channel	Frequency (MHz)	Ant 6	
			Average power (dBm)	
LE	CH 00	2402	GFSK	
	CH 19	2440	9.61	
	CH 39	2480	9.63	
Tune-up Limit			11.00	

BLE 1M

Mode	Channel	Frequency (MHz)	Ant 6	
			Average power (dBm)	
LE	CH 00	2402	2Mbps	
	CH 19	2440	9.72	
	CH 39	2480	9.76	
Tune-up Limit			11.0	