



Part27Q n77								
BW [MHz]	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		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.33		24.0	0.0
100	PI/2 BPSK	1	137		22.32			
100	PI/2 BPSK	1	271		22.31		24.0	0.0
100	PI/2 BPSK	135	0		22.34			
100	PI/2 BPSK	135	69		22.37		24.0	0.0
100	PI/2 BPSK	135	138		22.33			
100	PI/2 BPSK	270	0		22.30		24.0	0.0
100	QPSK	1	1		22.38			
100	QPSK	1	137		22.31		24.0	0.0
100	QPSK	1	271		22.27			
100	QPSK	135	0		22.24		24.0	0.0
100	QPSK	135	69		22.33			
100	QPSK	135	138		22.23		24.0	0.0
100	QPSK	270	0		22.25			
100	16QAM	1	1		22.25		24.0	0.0
100	64QAM	1	1		21.47			
100	256QAM	1	1		19.46		21.0	3.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.24	22.23	22.31	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.32	22.33	22.27	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.24	22.33	22.27	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.23	22.25	22.25	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.27	22.26	22.30	24.0	0.0



Part27Q n77 HPUE								
BW [MHz]	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		27.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		25.29		27.0	0.0
100	PI/2 BPSK	1	137		25.21			
100	PI/2 BPSK	1	271		25.31			
100	PI/2 BPSK	135	0		25.19		27.0	0.0
100	PI/2 BPSK	135	69		25.18		27.0	0.0
100	PI/2 BPSK	135	138		25.20		27.0	0.0
100	PI/2 BPSK	270	0		25.29			
100	QPSK	1	1		25.33		27.0	0.0
100	QPSK	1	137		25.25			
100	QPSK	1	271		25.13			
100	QPSK	135	0		25.14		27.0	0.0
100	QPSK	135	69		25.26		27.0	0.0
100	QPSK	135	138		25.13		27.0	0.0
100	QPSK	270	0		25.21			
100	16QAM	1	1		25.24		27.0	0.0
100	64QAM	1	1		24.40		26.0	1.0
100	256QAM	1	1		22.27		24.0	3.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.14	25.10	25.08	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.13	25.16	25.15	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.11	25.15	25.12	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.09	25.14	25.15	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.08	25.08	25.15	27.0	0.0



Part270 n78								
BW [MHz]	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	PI/2 BPSK	1	1		22.16		24.0	0.0
100	PI/2 BPSK	1	137		22.18			
100	PI/2 BPSK	1	271		22.24			
100	PI/2 BPSK	135	0		22.15		24.0	0.0
100	PI/2 BPSK	135	69		22.21		24.0	0.0
100	PI/2 BPSK	135	138		22.10		24.0	0.0
100	PI/2 BPSK	270	0		22.12			
100	QPSK	1	1		22.27			
100	QPSK	1	137		22.10		24.0	0.0
100	QPSK	1	271		22.08			
100	QPSK	135	0		22.09			
100	QPSK	135	69		22.23		24.0	0.0
100	QPSK	135	138		22.08		24.0	0.0
100	QPSK	270	0		22.16			
100	16QAM	1	1		22.15			
100	64QAM	1	1		21.25		23.0	1.0
100	256QAM	1	1		19.17		21.0	3.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.20	22.22	22.15	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.18	22.18	22.14	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.19	22.19	22.15	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.20	22.18	22.19	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.16	22.21	22.15	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.21	22.15	22.14	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.24	22.13	22.22	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.21	22.19	22.17	24.0	0.0

Part270 n78 HPUE



BW [MHz]	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	PI/2 BPSK	1	1		25.28		27.0	0.0
100	PI/2 BPSK	1	137		25.20			
100	PI/2 BPSK	1	271		25.33			
100	PI/2 BPSK	135	0		25.23		27.0	0.0
100	PI/2 BPSK	135	69		25.24		27.0	0.0
100	PI/2 BPSK	135	138		25.20		27.0	0.0
100	PI/2 BPSK	270	0		25.24			
100	QPSK	1	1		25.37		27.0	0.0
100	QPSK	1	137		25.20			
100	QPSK	1	271		25.20			
100	QPSK	135	0		25.07		27.0	0.0
100	QPSK	135	69		25.28		27.0	0.0
100	QPSK	135	138		25.19		27.0	0.0
100	QPSK	270	0		25.21			
100	16QAM	1	1		25.24		27.0	0.0
100	64QAM	1	1		24.42		26.0	1.0
100	256QAM	1	1		22.28		24.0	3.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.16	25.12	25.23	27.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.18	25.13	25.22	27.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.20	25.14	25.21	27.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.22	25.18	25.16	27.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.14	25.20	25.21	27.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.13	25.18	25.17	27.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.22	25.19	25.12	27.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.18	25.22	25.18	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					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.26		24.0	0.0
100	PI/2 BPSK	1	137		22.22			
100	PI/2 BPSK	1	271		22.34		24.0	0.0
100	PI/2 BPSK	135	0		22.16			
100	PI/2 BPSK	135	69		22.27		24.0	0.0
100	PI/2 BPSK	135	138		22.19			
100	PI/2 BPSK	270	0		22.24		24.0	0.0
100	QPSK	1	1		22.36			
100	QPSK	1	137		22.20		24.0	0.0
100	QPSK	1	271		22.19			
100	QPSK	135	0		22.19		24.0	0.0
100	QPSK	135	69		22.31			
100	QPSK	135	138		22.08		24.0	0.0
100	QPSK	270	0		22.22			
100	16QAM	1	1		22.20		24.0	0.0
100	64QAM	1	1		21.43		23.0	1.0
100	256QAM	1	1		19.32		21.0	3.0
Channel				633000	633334		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	-6000		
90	QPSK	1	1	22.24	22.31	22.25	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.26	22.27	22.26	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.22	22.28	22.31	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.31	22.27	22.28	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.27	22.22	22.30	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.25	22.23	22.25	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.32	22.30	22.29	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.33	22.25	22.32	24.0	0.0

**Part27Q 78 HPUE**



BW [MHz]	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		27.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		25.39		27.0	0.0
100	PI/2 BPSK	1	137		25.27			
100	PI/2 BPSK	1	271		25.38		27.0	0.0
100	PI/2 BPSK	135	0		25.31			
100	PI/2 BPSK	135	69		25.25		27.0	0.0
100	PI/2 BPSK	135	138		25.24			
100	PI/2 BPSK	270	0		25.39		27.0	0.0
100	QPSK	1	1		25.41			
100	QPSK	1	137		25.33		27.0	0.0
100	QPSK	1	271		25.26			
100	QPSK	135	0		25.24		27.0	0.0
100	QPSK	135	69		25.33			
100	QPSK	135	138		25.17		27.0	0.0
100	QPSK	270	0		25.26			
100	16QAM	1	1		25.32		27.0	0.0
100	64QAM	1	1		24.52		26.0	1.0
100	256QAM	1	1		22.40		24.0	3.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	25.37	25.26	25.34	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.31	25.26	25.30	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	25.35	25.35	25.29	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.30	25.35	25.36	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.28	25.28	25.35	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.28	25.38	25.28	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.33	25.32	25.30	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.38	25.32	25.29	27.0	0.0



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n41								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.98	20.02	19.93	21.0	0.0
100	PI/2 BPSK	1	137	20.03	20.05	19.97		
100	PI/2 BPSK	1	271	19.97	20.01	19.81		
100	PI/2 BPSK	135	0	19.80	19.91	19.92	21.0	0.0
100	PI/2 BPSK	135	69	19.82	20.04	19.95	21.0	0.0
100	PI/2 BPSK	135	138	19.89	19.95	19.92	21.0	0.0
100	PI/2 BPSK	270	0	19.93	20.00	19.77		
100	QPSK	1	1	19.99	20.06	20.00	21.0	0.0
100	QPSK	1	137	19.90	19.91	19.82		
100	QPSK	1	271	19.90	19.96	19.72		
100	QPSK	135	0	19.71	19.82	19.77	21.0	0.0
100	QPSK	135	69	19.75	20.02	19.91	21.0	0.0
100	QPSK	135	138	19.84	19.89	19.73	21.0	0.0
100	QPSK	270	0	19.76	19.83	19.70		
100	16QAM	1	1	19.94	20.05	20.02	21.0	0.0
100	64QAM	1	1	20.01	20.03	19.97	21.0	0.0
100	256QAM	1	1	19.92	20.05	19.99	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.86	19.92	19.94	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.86	20.00	19.87	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.96	19.96	19.86	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.93	19.99	19.91	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.94	19.97	19.91	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.87	20.02	19.86	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.86	19.89	19.86	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.86	20.04	19.92	21.0	0.0



Par270 n77								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.90	19.95	19.77	21.0	0.0
100	PI/2 BPSK	1	137	19.83	19.98	19.87		
100	PI/2 BPSK	1	271	19.77	19.84	19.81		
100	PI/2 BPSK	135	0	19.88	19.97	19.94	21.0	0.0
100	PI/2 BPSK	135	69	19.88	20.05	19.91	21.0	0.0
100	PI/2 BPSK	135	138	20.07	20.14	20.09	21.0	0.0
100	PI/2 BPSK	270	0	19.93	20.05	19.87		
100	QPSK	1	1	20.16	20.19	20.09	21.0	0.0
100	QPSK	1	137	19.93	20.07	19.98		
100	QPSK	1	271	19.96	20.10	20.05		
100	QPSK	135	0	19.96	20.02	19.88	21.0	0.0
100	QPSK	135	69	19.91	19.96	19.84	21.0	0.0
100	QPSK	135	138	19.86	19.89	19.75	21.0	0.0
100	QPSK	270	0	19.75	19.93	19.77		
100	16QAM	1	1	19.82	19.91	19.85	21.0	0.0
100	64QAM	1	1	19.87	19.89	19.77	21.0	0.0
100	256QAM	1	1	19.50	19.67	19.51	20.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.03	20.09	20.00	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.05	20.13	19.91	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.07	20.02	19.98	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.98	20.16	19.92	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.10	20.06	19.94	21.0	0.0





Part27Q n77								
BW [MHz]	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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.89		21.0	0.0
100	PI/2 BPSK	1	137		20.14			
100	PI/2 BPSK	1	271		20.15			
100	PI/2 BPSK	135	0		20.10		21.0	0.0
100	PI/2 BPSK	135	69		20.08		21.0	0.0
100	PI/2 BPSK	135	138		20.02		21.0	0.0
100	PI/2 BPSK	270	0		19.93			
100	QPSK	1	1		20.25		21.0	0.0
100	QPSK	1	137		20.16			
100	QPSK	1	271		20.18			
100	QPSK	135	0		20.08		21.0	0.0
100	QPSK	135	69		20.24		21.0	0.0
100	QPSK	135	138		20.19		21.0	0.0
100	QPSK	270	0		20.17			
100	16QAM	1	1		19.98		21.0	0.0
100	64QAM	1	1		20.12		21.0	0.0
100	256QAM	1	1		19.26		20.0	1.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.03	20.11	20.02	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	20.10	20.16	20.03	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	20.01	20.07	20.11	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	20.01	20.04	20.09	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	19.95	20.19	20.15	21.0	0.0



Part270 n78								
BW [MHz]	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	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.04			
100	PI/2 BPSK	1	137		20.31		21.0	0.0
100	PI/2 BPSK	1	271		20.22			
100	PI/2 BPSK	135	0		20.20			
100	PI/2 BPSK	135	69		20.15		21.0	0.0
100	PI/2 BPSK	135	138		20.08		21.0	0.0
100	PI/2 BPSK	270	0		20.09			
100	QPSK	1	1		20.34			
100	QPSK	1	137		20.24		21.0	0.0
100	QPSK	1	271		20.21			
100	QPSK	135	0		20.16			
100	QPSK	135	69		20.31		21.0	0.0
100	QPSK	135	138		20.23		21.0	0.0
100	QPSK	270	0		20.26			
100	16QAM	1	1		20.06			
100	64QAM	1	1		20.25		21.0	0.0
100	256QAM	1	1		19.32		20.0	1.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.18	20.30	20.31	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.17	20.26	20.22	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.22	20.23	20.20	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.26	20.29	20.31	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	20.32	20.31	20.23	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.24	20.16	20.21	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.22	20.20	20.19	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	20.19	20.18	20.20	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					633334		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.88			
100	PI/2 BPSK	1	137		20.27		21.0	0.0
100	PI/2 BPSK	1	271		20.22			
100	PI/2 BPSK	135	0		20.15			
100	PI/2 BPSK	135	69		20.25		21.0	0.0
100	PI/2 BPSK	135	138		20.26		21.0	0.0
100	PI/2 BPSK	270	0		19.95			
100	QPSK	1	1		20.29			
100	QPSK	1	137		19.93		21.0	0.0
100	QPSK	1	271		20.17			
100	QPSK	135	0		20.14			
100	QPSK	135	69		20.26		21.0	0.0
100	QPSK	135	138		19.94		21.0	0.0
100	QPSK	270	0		19.96			
100	16QAM	1	1		19.80			
100	64QAM	1	1		20.17		21.0	0.0
100	256QAM	1	1		20.14		21.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.04	20.15	20.08	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	19.97	20.12	20.01	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.97	20.22	19.97	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	20.10	20.09	20.06	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	20.03	20.11	20.08	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	20.03	20.07	20.08	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	20.02	20.08	20.00	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	20.10	20.17	19.99	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				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.95	19.99	19.76		
100	PI/2 BPSK	1	137	19.92	19.96	19.91	21.0	0.0
100	PI/2 BPSK	1	271	19.81	19.93	19.66		
100	PI/2 BPSK	135	0	19.73	19.84	19.75		
100	PI/2 BPSK	135	69	19.69	19.93	19.92	21.0	0.0
100	PI/2 BPSK	135	138	19.82	19.78	19.85	21.0	0.0
100	PI/2 BPSK	270	0	19.91	19.84	19.75		
100	QPSK	1	1	19.84	20.04	19.93		
100	QPSK	1	137	19.75	19.74	19.73	21.0	0.0
100	QPSK	1	271	19.74	19.81	19.60		
100	QPSK	135	0	19.58	19.75	19.73		
100	QPSK	135	69	19.59	19.91	19.83	21.0	0.0
100	QPSK	135	138	19.68	19.72	19.60	21.0	0.0
100	QPSK	270	0	19.65	19.76	19.56		
100	16QAM	1	1	19.91	19.95	19.93		
100	64QAM	1	1	19.96	19.95	19.82	21.0	0.0
100	256QAM	1	1	19.89	19.92	19.97	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.80	19.90	19.83	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.72	19.87	19.76	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.70	19.92	19.76	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.70	19.91	19.85	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.69	20.00	19.86	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.78	19.99	19.90	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	19.89	19.86	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.67	20.01	19.90	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				650000	656000	662000	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.76	19.80	19.72		
100	PI/2 BPSK	1	137	19.92	19.96	19.81	21.0	0.0
100	PI/2 BPSK	1	271	20.08	20.18	20.06		
100	PI/2 BPSK	135	0	19.79	19.91	19.82		
100	PI/2 BPSK	135	69	19.83	19.95	19.79	21.0	0.0
100	PI/2 BPSK	135	138	20.04	20.09	20.00	21.0	0.0
100	PI/2 BPSK	270	0	19.94	20.00	19.87		
100	QPSK	1	1	20.15	20.22	20.08		
100	QPSK	1	137	20.06	20.08	19.97	21.0	0.0
100	QPSK	1	271	19.83	19.91	19.79		
100	QPSK	135	0	19.74	19.92	19.90		
100	QPSK	135	69	20.05	20.11	19.99	21.0	0.0
100	QPSK	135	138	19.88	19.97	19.81	21.0	0.0
100	QPSK	270	0	19.92	20.02	19.91		
100	16QAM	1	1	19.65	19.73	19.65		
100	64QAM	1	1	20.09	20.13	19.99	21.0	0.0
100	256QAM	1	1	19.21	19.35	19.30	20.5	0.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.98	20.16	20.03	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.99	20.07	19.91	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.13	20.15	19.90	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.05	20.05	19.93	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.07	20.06	19.91	21.0	0.0

Part27Q n77								
BW [MHz]	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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		20.21		21.0	0.0
100	PI/2 BPSK	1	137		20.15			
100	PI/2 BPSK	1	271		20.27			
100	PI/2 BPSK	135	0		20.20		21.0	0.0
100	PI/2 BPSK	135	69		20.17		21.0	0.0
100	PI/2 BPSK	135	138		20.19		21.0	0.0
100	PI/2 BPSK	270	0		20.14			
100	QPSK	1	1		20.36		21.0	0.0
100	QPSK	1	137		20.29			
100	QPSK	1	271		20.33			
100	QPSK	135	0		20.23		21.0	0.0
100	QPSK	135	69		20.31		21.0	0.0
100	QPSK	135	138		20.12		21.0	0.0
100	QPSK	270	0		20.23			
100	16QAM	1	1		20.20		21.0	0.0
100	64QAM	1	1		20.14		21.0	0.0
100	256QAM	1	1		19.67		20.5	0.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	20.17	20.15	20.18	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	20.13	20.09	20.19	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	20.05	20.06	20.20	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	20.19	20.18	20.13	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	20.11	20.12	20.23	21.0	0.0



Part270 n78								
BW [MHz]	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	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.93			
100	PI/2 BPSK	1	137		20.06		21.0	0.0
100	PI/2 BPSK	1	271		20.11			
100	PI/2 BPSK	135	0		19.98			
100	PI/2 BPSK	135	69		20.00		21.0	0.0
100	PI/2 BPSK	135	138		19.96		21.0	0.0
100	PI/2 BPSK	270	0		19.91			
100	QPSK	1	1		20.19			
100	QPSK	1	137		20.14		21.0	0.0
100	QPSK	1	271		20.10			
100	QPSK	135	0		20.00			
100	QPSK	135	69		19.97		21.0	0.0
100	QPSK	135	138		19.99		21.0	0.0
100	QPSK	270	0		20.03			
100	16QAM	1	1		19.85			
100	64QAM	1	1		19.93		21.0	0.0
100	256QAM	1	1		18.98		20.0	1.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.14	20.07	20.08	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.08	20.12	20.09	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.06	20.02	20.03	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.07	20.05	20.07	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	20.15	20.03	20.06	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.05	20.01	20.14	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.16	20.10	20.11	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	20.12	20.09	20.11	21.0	0.0



Part27Q 78								
BW [MHz]	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		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.99			
100	PI/2 BPSK	1	137		20.07		21.0	0.0
100	PI/2 BPSK	1	271		20.10			
100	PI/2 BPSK	135	0		20.20			
100	PI/2 BPSK	135	69		20.25		21.0	0.0
100	PI/2 BPSK	135	138		20.08		21.0	0.0
100	PI/2 BPSK	270	0		20.16			
100	QPSK	1	1		20.31			
100	QPSK	1	137		20.20		21.0	0.0
100	QPSK	1	271		20.09			
100	QPSK	135	0		20.17			
100	QPSK	135	69		20.24		21.0	0.0
100	QPSK	135	138		20.10		21.0	0.0
100	QPSK	270	0		20.15			
100	16QAM	1	1		19.98			
100	64QAM	1	1		20.16		21.0	0.0
100	256QAM	1	1		20.05		21.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.16	20.26	20.18	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	20.15	20.18	20.23	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	20.20	20.14	20.23	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	20.27	20.26	20.21	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	20.16	20.28	20.19	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	20.18	20.22	20.19	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	20.13	20.21	20.28	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	20.14	20.13	20.26	21.0	0.0





Reduced Power Mode for DSI 0

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n2 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	25.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.55	23.61	23.46		
20	PI/2 BPSK	1	53	23.50	23.64	23.45	24.5	0.5
20	PI/2 BPSK	1	104	23.46	23.62	23.58		
20	PI/2 BPSK	50	0	22.89	23.14	23.18		
20	PI/2 BPSK	50	28	23.55	23.64	23.46	24.5	0.0
20	PI/2 BPSK	50	56	23.10	23.09	22.94		
20	PI/2 BPSK	100	0	23.04	23.21	23.09		
20	QPSK	1	1	23.61	23.66	23.57	25.0	0.0
20	QPSK	1	53	23.50	23.55	23.53		
20	QPSK	1	104	23.35	23.52	23.39		
20	QPSK	50	0	22.54	22.56	22.44	24.0	1.0
20	QPSK	50	28	23.49	23.66	23.55		
20	QPSK	50	56	22.57	22.61	22.52		
20	QPSK	100	0	22.62	22.69	22.58	24.0	1.0
20	16QAM	1	1	22.73	22.81	22.76		
20	64QAM	1	1	21.41	21.42	21.44		
20	256QAM	1	1	19.23	19.24	19.22	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.49	23.57	23.42	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.53	23.56	23.43	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.49	23.55	23.53	25.0	0.0



n5 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	25.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.39	24.43	24.27	25.0	0.0
20	PI/2 BPSK	1	53	24.18	24.34	24.28		
20	PI/2 BPSK	1	104	24.12	24.21	24.15		
20	PI/2 BPSK	50	0	23.76	23.84	23.77	24.5	0.5
20	PI/2 BPSK	50	28	24.29	24.29	24.17	25.0	0.0
20	PI/2 BPSK	50	56	23.58	23.71	23.71	24.5	0.5
20	PI/2 BPSK	100	0	23.73	23.83	23.66		
20	QPSK	1	1	24.31	24.45	24.36	25.0	0.0
20	QPSK	1	53	24.27	24.30	24.09		
20	QPSK	1	104	23.98	24.16	23.98		
20	QPSK	50	0	23.36	23.36	23.18	24.0	1.0
20	QPSK	50	28	24.27	24.31	24.30	25.0	0.0
20	QPSK	50	56	23.22	23.22	23.16	24.0	1.0
20	QPSK	100	0	23.24	23.31	23.11		
20	16QAM	1	1	23.47	23.63	23.43	24.0	1.0
20	64QAM	1	1	22.13	22.28	22.21	22.5	2.5
20	256QAM	1	1	19.89	20.11	20.00	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.24	24.47	24.21	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.19	24.36	24.36	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.26	24.46	24.20	25.0	0.0



n7 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.45	23.45	23.44	24.0	0.0
50	PI/2 BPSK	1	135	23.44	23.48	23.33		
50	PI/2 BPSK	1	268	23.39	23.39	23.21		
50	PI/2 BPSK	135	0	22.86	23.00	22.82	23.5	0.5
50	PI/2 BPSK	135	68	23.27	23.48	23.39	24.0	0.0
50	PI/2 BPSK	135	135	22.86	23.04	23.02	23.5	0.5
50	PI/2 BPSK	270	0	23.03	23.01	22.89		
50	QPSK	1	1	23.34	23.53	23.37	24.0	0.0
50	QPSK	1	135	23.32	23.44	23.25		
50	QPSK	1	268	23.35	23.45	23.32		
50	QPSK	135	0	22.39	22.54	22.51	23.0	1.0
50	QPSK	135	68	23.32	23.50	23.29	24.0	0.0
50	QPSK	135	135	22.48	22.58	22.40	23.0	1.0
50	QPSK	270	0	22.50	22.56	22.35		
50	16QAM	1	1	22.53	22.64	22.66	23.0	1.0
50	64QAM	1	1	21.29	21.28	21.28	21.5	2.5
50	256QAM	1	1	19.10	19.17	19.07	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.29	23.43	23.36	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	23.13	23.50	23.24	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	23.23	23.43	23.29	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.22	23.49	23.42	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.13	23.55	23.39	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.16	23.47	23.30	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.34	23.36	23.35	24.0	0.0



n12 DS10								
BW [MHz]	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	PI/2 BPSK	1	1	22.95	23.04	23.00	24.0	0.0
15	PI/2 BPSK	1	40	22.91	22.94	22.84		
15	PI/2 BPSK	1	77	22.92	23.07	22.95		
15	PI/2 BPSK	36	0	22.51	22.56	22.53	23.5	0.5
15	PI/2 BPSK	36	22	22.92	23.02	22.88	24.0	0.0
15	PI/2 BPSK	36	43	22.48	22.48	22.40	23.5	0.5
15	PI/2 BPSK	75	0	22.39	22.61	22.52		
15	QPSK	1	1	23.04	23.08	22.95	24.0	0.0
15	QPSK	1	40	23.05	23.06	22.95		
15	QPSK	1	77	22.81	22.98	22.97		
15	QPSK	36	0	21.99	22.14	21.94	23.0	1.0
15	QPSK	36	22	22.90	23.03	22.88	24.0	0.0
15	QPSK	36	43	21.91	22.09	22.04	23.0	1.0
15	QPSK	75	0	22.14	22.16	21.94		
15	16QAM	1	1	22.32	22.31	22.10	23.0	1.0
15	64QAM	1	1	20.77	20.79	20.68	21.5	2.5
	256QAM	1	1	18.67	18.80	18.81	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	23.07	22.95	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	22.87	22.90	22.94	24.0	0.0

n13 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					156400		24.0	0.0
Frequency (MHz)					782			
10	PI/2 BPSK	1	1		22.95		24.0	0.0
10	PI/2 BPSK	1	26		22.83			
10	PI/2 BPSK	1	50		22.96			
10	PI/2 BPSK	25	0		22.39		23.5	0.5
10	PI/2 BPSK	25	14		22.95		24.0	0.0
10	PI/2 BPSK	25	27		22.40		23.5	0.5
10	PI/2 BPSK	50	0		22.48			
10	QPSK	1	1		22.98		24.0	0.0
10	QPSK	1	26		22.93			
10	QPSK	1	50		22.89			
10	QPSK	25	0		21.95		23.0	1.0
10	QPSK	25	14		22.95		24.0	0.0
10	QPSK	25	27		21.92		23.0	1.0
10	QPSK	50	0		21.98			
10	16QAM	1	1		22.02		23.0	1.0
10	64QAM	1	1		20.31		21.5	2.5
10	256QAM	1	1		18.35		19.5	4.5
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	13	22.81	22.87	22.74	24.0	0.0



n14 DS10								
BW [MHz]	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		24.0	0.0
Frequency (MHz)					793			
10	PI/2 BPSK	1	1		22.89		24.0	0.0
10	PI/2 BPSK	1	26		22.90			
10	PI/2 BPSK	1	50		22.85			
10	PI/2 BPSK	25	0		22.46		23.5	0.5
10	PI/2 BPSK	25	14		22.90		24.0	0.0
10	PI/2 BPSK	25	27		22.41		23.5	0.5
10	PI/2 BPSK	50	0		22.46			
10	QPSK	1	1		22.93		24.0	0.0
10	QPSK	1	26		22.86			
10	QPSK	1	50		22.84			
10	QPSK	25	0		21.95		23.0	1.0
10	QPSK	25	14		22.91		24.0	0.0
10	QPSK	25	27		21.90		23.0	1.0
10	QPSK	50	0		21.93			
10	16QAM	1	1		22.00		23.0	1.0
10	64QAM	1	1		20.46		21.5	2.5
10	256QAM	1	1		18.39		19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	13	22.78	22.89	22.82	24.0	0.0



n25 DS10								
BW [MHz]	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	376500	381000	25.0	0.0
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	24.01	24.05	24.12		
20	PI/2 BPSK	1	53	24.02	24.00	23.94	24.5	0.5
20	PI/2 BPSK	1	104	23.80	23.96	23.99		
20	PI/2 BPSK	50	0	23.62	23.66	23.71		
20	PI/2 BPSK	50	28	23.94	24.04	23.94	24.5	0.5
20	PI/2 BPSK	50	56	23.54	23.67	23.52		
20	PI/2 BPSK	100	0	23.49	23.70	23.60		
20	QPSK	1	1	23.97	24.22	24.14	25.0	0.0
20	QPSK	1	53	23.97	24.07	23.91		
20	QPSK	1	104	23.80	24.01	23.99		
20	QPSK	50	0	22.96	23.20	22.91	24.0	1.0
20	QPSK	50	28	24.07	24.10	24.07		
20	QPSK	50	56	23.25	23.23	23.15		
20	QPSK	100	0	23.06	23.23	23.15	24.0	1.0
20	16QAM	1	1	23.19	23.36	23.19		
20	64QAM	1	1	21.58	21.79	21.69		
20	256QAM	1	1	19.70	19.81	19.78	20.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	23.85	24.11	24.00	25.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.84	24.18	24.03	25.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	23.90	24.08	24.00	25.0	0.0



n66 DS10								
BW [MHz]	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)				1725	1745	1765		
30	PI/2 BPSK	1	1	24.40	24.48	24.32	25.0	0.0
30	PI/2 BPSK	1	80	24.49	24.51	24.34		
30	PI/2 BPSK	1	158	24.39	24.49	24.35		
30	PI/2 BPSK	80	0	23.86	23.98	23.89	24.5	0.5
30	PI/2 BPSK	80	40	24.43	24.54	24.37	25.0	0.0
30	PI/2 BPSK	80	80	24.02	24.06	24.03	24.5	0.5
30	PI/2 BPSK	160	0	24.07	24.11	24.00		
30	QPSK	1	1	24.46	24.60	24.51	25.0	0.0
30	QPSK	1	80	24.46	24.56	24.45		
30	QPSK	1	158	24.45	24.53	24.47		
30	QPSK	80	0	23.50	23.52	23.49	24.0	1.0
30	QPSK	80	40	24.49	24.57	24.45	25.0	0.0
30	QPSK	80	80	23.37	23.53	23.49	24.0	1.0
30	QPSK	160	0	23.53	23.61	23.46		
30	16QAM	1	1	23.57	23.69	23.55	24.0	1.0
30	64QAM	1	1	21.91	21.95	21.87	22.5	2.5
30	256QAM	1	1	19.99	20.04	19.90	20.5	4.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	24.42	24.45	24.33	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	24.35	24.57	24.46	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.29	24.51	24.34	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.42	24.52	24.44	25.0	0.0





n71 DS10								
BW [MHz]	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	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.16	23.01	24.0	0.0
20	PI/2 BPSK	1	53	22.97	23.06	23.00		
20	PI/2 BPSK	1	104	22.99	22.98	22.98		
20	PI/2 BPSK	50	0	22.61	22.66	22.65	23.5	0.5
20	PI/2 BPSK	50	28	22.93	23.09	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.44	22.53	22.50	23.5	0.5
20	PI/2 BPSK	100	0	22.54	22.64	22.55		
20	QPSK	1	1	23.05	23.19	23.16	24.0	0.0
20	QPSK	1	53	22.84	23.03	23.04		
20	QPSK	1	104	22.79	22.96	22.94		
20	QPSK	50	0	22.16	22.18	22.13	23.0	1.0
20	QPSK	50	28	23.14	23.17	23.16	24.0	0.0
20	QPSK	50	56	22.06	22.05	22.04	23.0	1.0
20	QPSK	100	0	21.99	22.14	22.03		
20	16QAM	1	1	22.22	22.36	22.29	23.0	1.0
20	64QAM	1	1	20.66	20.85	20.70	21.5	2.5
20	256QAM	1	1	18.34	18.49	18.48	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.97	23.12	23.05	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.07	23.03	23.01	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.03	22.99	23.00	24.0	0.0



Ant1

n41 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	16.9	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.44	15.53	15.49		
100	PI/2 BPSK	1	137	15.49	15.52	15.35	16.9	0.0
100	PI/2 BPSK	1	271	15.36	15.50	15.46		
100	PI/2 BPSK	135	0	15.39	15.50	15.44		
100	PI/2 BPSK	135	69	15.50	15.58	15.46	16.9	0.0
100	PI/2 BPSK	135	138	15.38	15.47	15.30		
100	PI/2 BPSK	270	0	15.47	15.53	15.40		
100	QPSK	1	1	15.68	15.71	15.63	16.9	0.0
100	QPSK	1	137	15.44	15.56	15.47		
100	QPSK	1	271	15.41	15.58	15.45		
100	QPSK	135	0	15.28	15.42	15.37	16.9	0.0
100	QPSK	135	69	15.54	15.64	15.47		
100	QPSK	135	138	15.41	15.55	15.50		
100	QPSK	270	0	15.47	15.57	15.46	16.9	0.0
100	16QAM	1	1	15.42	15.46	15.38		
100	64QAM	1	1	15.39	15.57	15.43		
100	256QAM	1	1	15.32	15.41	15.27	16.9	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.57	15.58	15.56	16.9	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.54	15.57	15.51	16.9	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.53	15.66	15.57	16.9	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.66	15.55	15.47	16.9	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.65	15.62	15.52	16.9	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.56	15.57	15.53	16.9	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.52	15.60	15.53	16.9	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.57	15.68	15.53	16.9	0.0



Par270 n77 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.43	16.58	16.50	17.4	0.0
100	PI/2 BPSK	1	137	16.32	16.46	16.35		
100	PI/2 BPSK	1	271	16.53	16.57	16.39		
100	PI/2 BPSK	135	0	16.32	16.48	16.42	17.4	0.0
100	PI/2 BPSK	135	69	16.42	16.52	16.41	17.4	0.0
100	PI/2 BPSK	135	138	16.49	16.52	16.48	17.4	0.0
100	PI/2 BPSK	270	0	16.48	16.55	16.50		
100	QPSK	1	1	16.57	16.68	16.61	17.4	0.0
100	QPSK	1	137	16.48	16.57	16.45		
100	QPSK	1	271	16.56	16.65	16.48		
100	QPSK	135	0	16.24	16.40	16.32	17.4	0.0
100	QPSK	135	69	16.53	16.66	16.55	17.4	0.0
100	QPSK	135	138	16.47	16.45	16.34	17.4	0.0
100	QPSK	270	0	16.36	16.50	16.42		
100	16QAM	1	1	16.30	16.41	16.30	17.4	0.0
100	64QAM	1	1	16.43	16.50	16.37	17.4	0.0
100	256QAM	1	1	16.28	16.38	16.31	17.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.55	16.56	16.55	17.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.53	16.51	16.51	17.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.49	16.62	16.55	17.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.51	16.64	16.49	17.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.41	16.52	16.51	17.4	0.0



Part27Q n77 DSI0								
BW [MHz]	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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.72		17.4	0.0
100	PI/2 BPSK	1	137		16.53			
100	PI/2 BPSK	1	271		16.74			
100	PI/2 BPSK	135	0		16.65		17.4	0.0
100	PI/2 BPSK	135	69		16.69		17.4	0.0
100	PI/2 BPSK	135	138		16.59		17.4	0.0
100	PI/2 BPSK	270	0		16.67			
100	QPSK	1	1		16.88		17.4	0.0
100	QPSK	1	137		16.69			
100	QPSK	1	271		16.74			
100	QPSK	135	0		16.54		17.4	0.0
100	QPSK	135	69		16.81		17.4	0.0
100	QPSK	135	138		16.68		17.4	0.0
100	QPSK	270	0		16.75			
100	16QAM	1	1		16.54		17.4	0.0
100	64QAM	1	1		16.66		17.4	0.0
100	256QAM	1	1		16.44		17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.71	16.83	16.75	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.76	16.83	16.85	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.72	16.81	16.76	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.72	16.82	16.85	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.75	16.83	16.73	17.4	0.0



Part27O n78 DSI0								
BW [MHz]	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	17.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.41			
100	PI/2 BPSK	1	137		16.29		17.4	0.0
100	PI/2 BPSK	1	271		16.38			
100	PI/2 BPSK	135	0		16.42			
100	PI/2 BPSK	135	69		16.29		17.4	0.0
100	PI/2 BPSK	135	138		16.40			
100	PI/2 BPSK	270	0		16.33			
100	QPSK	1	1		16.51		17.4	0.0
100	QPSK	1	137		16.36			
100	QPSK	1	271		16.40			
100	QPSK	135	0		16.31		17.4	0.0
100	QPSK	135	69		16.48			
100	QPSK	135	138		16.26			
100	QPSK	270	0		16.32		17.4	0.0
100	16QAM	1	1		16.20			
100	64QAM	1	1		16.27			
100	256QAM	1	1		16.05		17.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.34	16.37	16.36	17.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.47	16.34	16.38	17.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.36	16.41	16.44	17.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.41	16.46	16.42	17.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.34	16.48	16.39	17.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.42	16.42	16.45	17.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.38	16.49	16.33	17.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.41	16.40	16.39	17.4	0.0



Part27Q 78 DSI0								
BW [MHz]	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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.61			
100	PI/2 BPSK	1	137		16.36		17.4	0.0
100	PI/2 BPSK	1	271		16.70			
100	PI/2 BPSK	135	0		16.53			
100	PI/2 BPSK	135	69		16.55		17.4	0.0
100	PI/2 BPSK	135	138		16.56			
100	PI/2 BPSK	270	0		16.50			
100	QPSK	1	1		16.81		17.4	0.0
100	QPSK	1	137		16.59			
100	QPSK	1	271		16.64			
100	QPSK	135	0		16.49		17.4	0.0
100	QPSK	135	69		16.75			
100	QPSK	135	138		16.60			
100	QPSK	270	0		16.71		17.4	0.0
100	16QAM	1	1		16.45			
100	64QAM	1	1		16.63			
100	256QAM	1	1		16.31		17.4	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.34	16.47	16.46	17.4	0.0
Channel				16	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				-5999.75355	3500.01	3510		
80	QPSK	1	1	16.57	16.44	16.48	17.4	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.46	16.51	16.54	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.45	16.50	16.49	17.4	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.50	16.52	16.48	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.49	16.48	16.49	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.52	16.50	16.51	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.51	15.53	16.50	17.4	0.0

Ant2

n2 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	25.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.48	23.64	23.55		
20	PI/2 BPSK	1	53	23.42	23.67	23.48	24.5	0.5
20	PI/2 BPSK	1	104	23.45	23.57	23.49		
20	PI/2 BPSK	50	0	22.98	23.20	22.96		
20	PI/2 BPSK	50	28	23.56	23.66	23.53	24.5	0.0
20	PI/2 BPSK	50	56	22.95	23.07	23.05		
20	PI/2 BPSK	100	0	23.09	23.14	23.13		
20	QPSK	1	1	23.48	23.76	23.59	25.0	0.0
20	QPSK	1	53	23.53	23.53	23.42		
20	QPSK	1	104	23.40	23.56	23.42		
20	QPSK	50	0	22.40	22.60	22.56	24.0	1.0
20	QPSK	50	28	23.59	23.62	23.47		
20	QPSK	50	56	22.34	22.55	22.59		
20	QPSK	100	0	22.57	22.64	22.62	24.0	1.0
20	16QAM	1	1	22.30	22.35	22.32		
20	64QAM	1	1	21.23	21.42	21.25		
20	256QAM	1	1	19.28	19.42	19.36	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.50	23.63	23.55	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.50	23.65	23.51	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.55	23.61	23.56	25.0	0.0



n5 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	25.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.16	23.14	23.07		
20	PI/2 BPSK	1	53	23.13	23.11	23.05	24.5	0.5
20	PI/2 BPSK	1	104	23.10	23.08	23.02		
20	PI/2 BPSK	50	0	22.61	22.68	22.69	25.0	0.0
20	PI/2 BPSK	50	28	23.07	23.12	23.03		
20	PI/2 BPSK	50	56	22.56	22.61	22.60	24.5	0.5
20	PI/2 BPSK	100	0	22.55	22.65	22.59		
20	QPSK	1	1	23.18	23.19	23.08	25.0	0.0
20	QPSK	1	53	23.07	23.09	23.07		
20	QPSK	1	104	23.03	23.11	23.14		
20	QPSK	50	0	22.05	22.21	22.03	24.0	1.0
20	QPSK	50	28	23.04	23.10	23.01		
20	QPSK	50	56	22.11	22.15	22.09	24.0	1.0
20	QPSK	100	0	22.03	22.09	22.06		
20	16QAM	1	1	22.11	22.16	22.06	24.0	1.0
20	64QAM	1	1	20.61	20.59	20.54	22.5	2.5
20	256QAM	1	1	18.57	18.64	18.61	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.04	23.10	23.05	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.06	23.12	23.06	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.08	23.16	23.03	25.0	0.0





n7 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.71	22.75	22.65		
50	PI/2 BPSK	1	135	22.88	22.92	22.84	24.0	0.0
50	PI/2 BPSK	1	268	22.55	22.75	22.62		
50	PI/2 BPSK	135	0	22.39	22.50	22.36		
50	PI/2 BPSK	135	68	22.69	22.86	22.77	24.0	0.0
50	PI/2 BPSK	135	135	22.32	22.36	22.34	24.0	0.0
50	PI/2 BPSK	270	0	22.23	22.42	22.34		
50	QPSK	1	1	22.82	23.01	22.94		
50	QPSK	1	135	22.75	22.94	22.90	24.0	0.0
50	QPSK	1	268	22.82	22.86	22.66		
50	QPSK	135	0	21.80	21.98	21.81		
50	QPSK	135	68	22.80	22.96	22.90	24.0	0.0
50	QPSK	135	135	21.87	21.96	21.78	23.5	0.5
50	QPSK	270	0	22.00	22.01	21.86		
50	16QAM	1	1	22.01	22.17	22.06		
50	64QAM	1	1	20.31	20.51	20.34	22.0	2.0
50	256QAM	1	1	18.54	18.69	18.68	20.0	4.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.67	22.82	22.78	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	22.66	22.85	22.76	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	22.66	22.93	22.91	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.68	23.00	22.74	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.66	22.98	22.83	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.77	22.87	22.85	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.78	22.81	22.96	24.0	0.0



n25 DS10								
BW [MHz]	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	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	23.89	24.10	24.04	25.0	0.0
20	PI/2 BPSK	1	53	23.98	24.19	23.99		
20	PI/2 BPSK	1	104	24.04	24.17	24.02		
20	PI/2 BPSK	50	0	23.42	23.68	23.43	24.5	0.5
20	PI/2 BPSK	50	28	24.04	24.07	23.95	25.0	0.0
20	PI/2 BPSK	50	56	23.45	23.60	23.41	24.5	0.5
20	PI/2 BPSK	100	0	23.43	23.60	23.37		
20	QPSK	1	1	24.14	24.27	24.19	25.0	0.0
20	QPSK	1	53	24.11	24.24	24.16		
20	QPSK	1	104	23.97	24.19	24.07		
20	QPSK	50	0	23.09	23.31	23.15	24.0	1.0
20	QPSK	50	28	24.05	24.21	24.20	25.0	0.0
20	QPSK	50	56	23.13	23.28	23.11	24.0	1.0
20	QPSK	100	0	23.08	23.20	23.15		
20	16QAM	1	1	23.32	23.51	23.48	24.0	1.0
20	64QAM	1	1	21.67	21.79	21.76	22.5	2.5
20	256QAM	1	1	19.94	19.92	19.83	20.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	24.01	24.20	24.10	25.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	24.06	24.13	24.06	25.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	24.11	24.15	24.08	25.0	0.0

n66 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000	25.0	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.66	23.73	23.55		
30	PI/2 BPSK	1	80	23.50	23.67	23.54	24.5	0.5
30	PI/2 BPSK	1	158	23.56	23.61	23.45		
30	PI/2 BPSK	80	0	22.55	22.66	22.53		
30	PI/2 BPSK	80	40	23.56	23.64	23.61	24.5	0.5
30	PI/2 BPSK	80	80	22.74	22.78	22.71		
30	PI/2 BPSK	160	0	22.62	22.61	22.58		
30	QPSK	1	1	23.80	23.84	23.78	25.0	0.0
30	QPSK	1	80	23.67	23.81	23.79		
30	QPSK	1	158	23.65	23.76	23.75		
30	QPSK	80	0	22.52	22.70	22.70	24.0	1.0
30	QPSK	80	40	23.70	23.82	23.81		
30	QPSK	80	80	22.64	22.82	22.74		
30	QPSK	160	0	22.78	22.81	22.64	24.0	1.0
30	16QAM	1	1	22.39	22.60	22.39		
30	64QAM	1	1	21.11	21.31	21.30		
30	256QAM	1	1	19.38	19.48	19.30	20.5	4.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.80	23.85	23.69	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.81	23.64	23.61	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.64	23.85	23.60	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.68	23.81	23.74	25.0	0.0



n38 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.96	22.98	22.82	24.0	0.0
40	PI/2 BPSK	1	53	22.78	22.86	22.82		
40	PI/2 BPSK	1	104	22.71	22.93	22.93		
40	PI/2 BPSK	50	0	22.46	22.55	22.55	23.5	0.5
40	PI/2 BPSK	50	28	22.89	23.02	23.02	24.0	0.0
40	PI/2 BPSK	50	56	22.54	22.63	22.58	23.5	0.5
40	PI/2 BPSK	100	0	22.66	22.65	22.57		
40	QPSK	1	1	22.86	23.06	22.97	24.0	0.0
40	QPSK	1	53	22.79	22.95	22.77		
40	QPSK	1	104	22.88	23.01	22.99		
40	QPSK	50	0	22.04	22.07	21.85	23.0	1.0
40	QPSK	50	28	22.80	23.00	22.82	24.0	0.0
40	QPSK	50	56	21.93	22.11	22.11	23.0	1.0
40	QPSK	100	0	22.07	22.15	21.94		
40	16QAM	1	1	22.07	22.27	22.14	23.0	1.0
40	64QAM	1	1	20.47	20.65	20.53	21.5	2.5
40	256QAM	1	1	18.61	18.69	18.60	19.5	4.5
Channel				517002	519000	520998	24.0	0.0
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.74	23.01	22.84	24.0	0.0
Channel				516000	519000	522000	24.0	0.0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.75	22.95	22.91	24.0	0.0



n41 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.07	23.07	22.94		
100	PI/2 BPSK	1	137	22.92	22.98	22.80	23.5	0.5
100	PI/2 BPSK	1	271	23.00	23.01	22.79		
100	PI/2 BPSK	135	0	22.48	22.55	22.53		
100	PI/2 BPSK	135	69	23.03	23.08	23.06	24.0	0.0
100	PI/2 BPSK	135	138	22.75	22.77	22.63		
100	PI/2 BPSK	270	0	22.79	22.86	22.77		
100	QPSK	1	1	23.07	23.11	22.99	24.0	0.0
100	QPSK	1	137	22.82	22.97	22.93		
100	QPSK	1	271	22.78	23.00	22.83		
100	QPSK	135	0	22.23	22.26	22.21	23.0	1.0
100	QPSK	135	69	22.98	23.04	22.97		
100	QPSK	135	138	21.94	22.12	22.13		
100	QPSK	270	0	22.03	22.18	22.03	23.0	1.0
100	16QAM	1	1	22.21	22.31	22.24		
100	64QAM	1	1	20.57	20.72	20.72		
100	256QAM	1	1	18.50	18.69	18.60	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.89	23.07	22.96	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.97	22.91	23.00	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.89	22.96	23.01	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.95	22.91	22.92	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.05	23.08	22.96	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	23.02	22.90	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.06	23.04	22.83	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.87	23.05	22.86	24.0	0.0



n41 HPUE DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.60	22.63	22.59		
100	PI/2 BPSK	1	137	22.55	22.56	22.53	24.5	0.0
100	PI/2 BPSK	1	271	22.76	22.59	22.56		
100	PI/2 BPSK	135	0	22.64	22.56	22.52		
100	PI/2 BPSK	135	69	22.61	22.61	22.63	24.5	0.0
100	PI/2 BPSK	135	138	22.57	22.67	22.54		
100	PI/2 BPSK	270	0	22.62	22.74	22.57		
100	QPSK	1	1	22.66	22.81	22.74	24.5	0.0
100	QPSK	1	137	22.53	22.71	22.62		
100	QPSK	1	271	22.69	22.67	22.61		
100	QPSK	135	0	22.51	22.52	22.59	24.5	0.0
100	QPSK	135	69	22.62	22.71	22.65		
100	QPSK	135	138	22.55	22.68	22.57		
100	QPSK	270	0	22.52	22.63	22.52	24.5	0.0
100	16QAM	1	1	22.66	22.60	22.63		
100	64QAM	1	1	22.62	22.58	22.54		
100	256QAM	1	1	21.78	21.88	21.91	23.5	1.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.57	22.75	22.63	24.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.51	22.66	22.64	24.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.53	22.79	22.62	24.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.60	22.73	22.61	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.50	22.76	22.69	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.59	22.78	22.69	24.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.64	22.65	22.61	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.63	22.69	22.65	24.5	0.0



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n48 DS10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				638000	641666	645332	23.0	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	22.01	22.12	22.06	23.0	0.0
40	PI/2 BPSK	1	53	21.78	21.87	21.74		
40	PI/2 BPSK	1	104	21.68	21.79	21.66		
40	PI/2 BPSK	50	0	21.89	22.01	21.88	23.0	0.0
40	PI/2 BPSK	50	28	21.85	21.92	21.87	23.0	0.0
40	PI/2 BPSK	50	56	21.88	21.94	21.87	23.0	0.0
40	PI/2 BPSK	100	0	21.92	21.98	21.84		
40	QPSK	1	1	22.13	22.26	22.22	23.0	0.0
40	QPSK	1	53	21.90	22.03	21.96		
40	QPSK	1	104	21.83	21.92	21.82		
40	QPSK	50	0	21.84	21.91	21.88	23.0	0.0
40	QPSK	50	28	21.78	21.93	21.78	23.0	0.0
40	QPSK	50	56	21.82	21.89	21.76	23.0	0.0
40	QPSK	100	0	21.91	21.95	21.86		
40	16QAM	1	1	22.04	22.16	22.07	23.0	0.0
40	64QAM	1	1	20.76	20.87	20.82	21.5	1.5
40	256QAM	1	1	18.70	18.85	18.76	19.5	3.5
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	22.03	22.17	22.11	23.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	21.98	22.18	22.11	23.0	0.0



Par270 n77 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.18	22.24	22.22		
100	PI/2 BPSK	1	137	22.08	22.27	22.09	24.0	0.0
100	PI/2 BPSK	1	271	22.24	22.28	22.23		
100	PI/2 BPSK	135	0	22.19	22.19	22.12		
100	PI/2 BPSK	135	69	22.08	22.25	22.19	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.23	22.07	24.0	0.0
100	PI/2 BPSK	270	0	22.11	22.23	22.11		
100	QPSK	1	1	22.19	22.39	22.26		
100	QPSK	1	137	22.09	22.20	22.15	24.0	0.0
100	QPSK	1	271	22.03	22.19	22.15		
100	QPSK	135	0	22.04	22.14	22.09		
100	QPSK	135	69	22.08	22.21	22.10	24.0	0.0
100	QPSK	135	138	22.16	22.11	22.15	24.0	0.0
100	QPSK	270	0	22.06	22.19	22.11		
100	16QAM	1	1	22.13	22.20	22.16		
100	64QAM	1	1	21.26	21.37	21.34	23.0	1.0
100	256QAM	1	1	19.28	19.30	19.17	21.0	3.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.05	22.31	22.15	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.10	22.29	22.21	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.08	22.35	22.21	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.06	22.36	22.21	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.15	22.25	22.15	24.0	0.0





Part27Q n77 DSI0								
BW [MHz]	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		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.33		24.0	0.0
100	PI/2 BPSK	1	137		22.32			
100	PI/2 BPSK	1	271		22.31			
100	PI/2 BPSK	135	0		22.34		24.0	0.0
100	PI/2 BPSK	135	69		22.37		24.0	0.0
100	PI/2 BPSK	135	138		22.33		24.0	0.0
100	PI/2 BPSK	270	0		22.30			
100	QPSK	1	1		22.38		24.0	0.0
100	QPSK	1	137		22.31			
100	QPSK	1	271		22.27			
100	QPSK	135	0		22.24		24.0	0.0
100	QPSK	135	69		22.33		24.0	0.0
100	QPSK	135	138		22.23		24.0	0.0
100	QPSK	270	0		22.25			
100	16QAM	1	1		22.25		24.0	0.0
100	64QAM	1	1		21.47		23.0	1.0
100	256QAM	1	1		19.46		21.0	3.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.24	22.23	22.31	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.32	22.33	22.27	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.24	22.33	22.27	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.23	22.25	22.25	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.27	22.26	22.30	24.0	0.0



Par270 n77 HPUE DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	26.5	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.93	24.92	24.84		
100	PI/2 BPSK	1	137	24.78	24.93	24.85	26.5	0.0
100	PI/2 BPSK	1	271	25.01	24.97	24.87		
100	PI/2 BPSK	135	0	24.90	24.97	24.82		
100	PI/2 BPSK	135	69	24.99	24.90	24.92	26.5	0.0
100	PI/2 BPSK	135	138	24.94	24.95	24.75		
100	PI/2 BPSK	270	0	24.72	25.05	24.89		
100	QPSK	1	1	25.02	25.10	24.98	26.5	0.0
100	QPSK	1	137	24.90	25.03	24.90		
100	QPSK	1	271	24.88	25.08	24.96		
100	QPSK	135	0	24.81	24.87	24.76	26.5	0.0
100	QPSK	135	69	24.90	25.07	25.02		
100	QPSK	135	138	24.92	24.87	24.86		
100	QPSK	270	0	24.90	24.92	24.78	26.5	0.0
100	16QAM	1	1	24.87	24.77	24.84		
100	64QAM	1	1	24.48	24.61	24.57		
100	256QAM	1	1	22.46	22.49	22.35	24.0	2.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.88	25.05	24.91	26.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	24.97	25.00	24.94	26.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.95	25.07	24.82	26.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	24.89	25.02	24.88	26.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	24.95	24.95	24.87	26.5	0.0



Part27Q n77 HPUE DSI0								
BW [MHz]	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		26.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		24.70		26.5	0.0
100	PI/2 BPSK	1	137		24.83			
100	PI/2 BPSK	1	271		24.79			
100	PI/2 BPSK	135	0		24.72		26.5	0.0
100	PI/2 BPSK	135	69		24.60		26.5	0.0
100	PI/2 BPSK	135	138		24.76		26.5	0.0
100	PI/2 BPSK	270	0		24.77			
100	QPSK	1	1		24.90			
100	QPSK	1	137		24.80		26.5	0.0
100	QPSK	1	271		24.88			
100	QPSK	135	0		24.56			
100	QPSK	135	69		24.88		26.5	0.0
100	QPSK	135	138		24.75		26.5	0.0
100	QPSK	270	0		24.83			
100	16QAM	1	1		24.93			
100	64QAM	1	1		24.40		26.0	0.5
100	256QAM	1	1		22.27		24.0	2.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.80	24.86	24.81	26.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	24.86	24.74	24.75	26.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.79	24.76	24.85	26.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.82	24.78	24.76	26.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.80	24.83	24.75	26.5	0.0



Part270 n78 DSI0								
BW [MHz]	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	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.16			
100	PI/2 BPSK	1	137		22.18		24.0	0.0
100	PI/2 BPSK	1	271		22.24			
100	PI/2 BPSK	135	0		22.15			
100	PI/2 BPSK	135	69		22.21		24.0	0.0
100	PI/2 BPSK	135	138		22.10		24.0	0.0
100	PI/2 BPSK	270	0		22.12			
100	QPSK	1	1		22.27			
100	QPSK	1	137		22.10		24.0	0.0
100	QPSK	1	271		22.08			
100	QPSK	135	0		22.09			
100	QPSK	135	69		22.23		24.0	0.0
100	QPSK	135	138		22.08		24.0	0.0
100	QPSK	270	0		22.16			
100	16QAM	1	1		22.15			
100	64QAM	1	1		21.25		23.0	1.0
100	256QAM	1	1		19.17		21.0	3.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.20	22.22	22.15	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.18	22.18	22.14	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.19	22.19	22.15	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.20	22.18	22.19	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.16	22.21	22.15	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.21	22.15	22.14	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.24	22.13	22.22	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.21	22.19	22.17	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					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.26			
100	PI/2 BPSK	1	137		22.22		24.0	0.0
100	PI/2 BPSK	1	271		22.34			
100	PI/2 BPSK	135	0		22.16		24.0	0.0
100	PI/2 BPSK	135	69		22.27		24.0	0.0
100	PI/2 BPSK	135	138		22.19		24.0	0.0
100	PI/2 BPSK	270	0		22.24			
100	QPSK	1	1		22.36		24.0	0.0
100	QPSK	1	137		22.20			
100	QPSK	1	271		22.19			
100	QPSK	135	0		22.19		24.0	0.0
100	QPSK	135	69		22.31		-2.5	26.5
100	QPSK	135	138		22.08		24.0	0.0
100	QPSK	270	0		22.22			
100	16QAM	1	1		22.20		24.0	0.0
100	64QAM	1	1		21.43		23.0	1.0
100	256QAM	1	1		19.32		21.0	3.0
Channel				633000	633334		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	-6000		
90	QPSK	1	1	22.24	22.31	22.25	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.26	22.27	22.26	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.22	22.28	22.31	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.31	22.27	22.28	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.27	22.22	22.30	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.25	22.23	22.25	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.32	22.30	22.29	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.33	22.25	22.32	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				650000	650000	650000	26.5	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		24.60			
100	PI/2 BPSK	1	137		24.62		26.5	0.0
100	PI/2 BPSK	1	271		24.58			
100	PI/2 BPSK	135	0		24.69			
100	PI/2 BPSK	135	69		24.61		26.5	0.0
100	PI/2 BPSK	135	138		24.53			
100	PI/2 BPSK	270	0		24.60			
100	QPSK	1	1		24.76		26.5	0.0
100	QPSK	1	137		24.69			
100	QPSK	1	271		24.69			
100	QPSK	135	0		24.62		26.5	0.0
100	QPSK	135	69		24.70			
100	QPSK	135	138		24.64			
100	QPSK	270	0		24.67		26.5	0.0
100	16QAM	1	1		24.51			
100	64QAM	1	1		24.42			
100	256QAM	1	1		22.28		24.0	2.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	24.59	24.72	24.65	26.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.71	24.59	24.68	26.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	24.59	24.62	24.64	26.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	24.61	24.63	24.65	26.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.59	24.60	24.59	26.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.66	24.73	24.71	26.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	24.65	24.58	24.71	26.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.64	24.66	24.67	26.5	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					633334		26.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		24.67			
100	PI/2 BPSK	1	137		24.78		26.5	0.0
100	PI/2 BPSK	1	271		24.70			
100	PI/2 BPSK	135	0		24.73			
100	PI/2 BPSK	135	69		24.65		26.5	0.0
100	PI/2 BPSK	135	138		24.55			
100	PI/2 BPSK	270	0		24.71			
100	QPSK	1	1		24.83		26.5	0.0
100	QPSK	1	137		24.80			
100	QPSK	1	271		24.72			
100	QPSK	135	0		24.64		26.5	0.0
100	QPSK	135	69		24.80			
100	QPSK	135	138		24.78			
100	QPSK	270	0		24.76		26.5	0.0
100	16QAM	1	1		24.59			
100	64QAM	1	1		24.52			
100	256QAM	1	1		22.40		24.0	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.66	24.74	24.71	26.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.80	24.80	24.73	26.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	24.76	24.69	24.69	26.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	24.66	24.73	24.70	26.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.73	24.78	24.77	26.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.72	24.73	24.69	26.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.74	24.77	24.69	26.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.75	24.75	24.66	26.5	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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.17	19.18	19.16	20.1	0.0
100	PI/2 BPSK	1	137	19.17	19.22	19.12		
100	PI/2 BPSK	1	271	19.16	19.21	19.22		
100	PI/2 BPSK	135	0	19.16	19.24	19.11	20.1	0.0
100	PI/2 BPSK	135	69	19.15	19.21	19.15	20.1	0.0
100	PI/2 BPSK	135	138	19.23	19.24	19.14	20.1	0.0
100	PI/2 BPSK	270	0	19.04	19.21	19.09		
100	QPSK	1	1	19.32	19.35	19.26	20.1	0.0
100	QPSK	1	137	19.16	19.21	19.20		
100	QPSK	1	271	19.16	19.34	19.27		
100	QPSK	135	0	19.10	19.23	18.99	20.1	0.0
100	QPSK	135	69	19.20	19.30	19.29	20.1	0.0
100	QPSK	135	138	19.14	19.22	19.16	20.1	0.0
100	QPSK	270	0	19.07	19.27	19.15		
100	16QAM	1	1	19.20	19.17	19.19	20.1	0.0
100	64QAM	1	1	19.18	19.27	19.19	20.1	0.0
100	256QAM	1	1	19.08	19.13	19.12	20.1	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.24	19.26	19.13	20.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.17	19.30	19.11	20.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.18	19.19	19.22	20.1	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.21	19.33	19.11	20.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.24	19.22	19.14	20.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.16	19.32	19.18	20.1	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.27	19.27	19.16	20.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.30	19.30	19.16	20.1	0.0





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.84	17.90	17.76	18.9	0.0
100	PI/2 BPSK	1	137	17.77	17.89	17.74		
100	PI/2 BPSK	1	271	17.96	17.86	17.85		
100	PI/2 BPSK	135	0	17.89	17.77	17.69	18.9	0.0
100	PI/2 BPSK	135	69	17.78	17.92	17.82	18.9	0.0
100	PI/2 BPSK	135	138	17.75	17.89	17.63	18.9	0.0
100	PI/2 BPSK	270	0	17.61	17.80	17.69		
100	QPSK	1	1	17.93	17.99	17.82		
100	QPSK	1	137	17.87	17.86	17.93	18.9	0.0
100	QPSK	1	271	17.81	17.97	17.82		
100	QPSK	135	0	17.66	17.77	17.68		
100	QPSK	135	69	17.79	17.95	17.94	18.9	0.0
100	QPSK	135	138	17.81	17.83	17.72	18.9	0.0
100	QPSK	270	0	17.73	17.90	17.75		
100	16QAM	1	1	17.74	17.73	17.76		
100	64QAM	1	1	17.87	17.83	17.80	18.9	0.0
100	256QAM	1	1	17.63	17.66	17.68	18.9	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.76	17.87	17.68	18.9	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.85	17.94	17.66	18.9	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.80	17.90	17.69	18.9	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.80	17.81	17.65	18.9	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.82	17.85	17.78	18.9	0.0



Part27Q n77 DSI0								
BW [MHz]	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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.47		18.9	0.0
100	PI/2 BPSK	1	137		17.55			
100	PI/2 BPSK	1	271		17.39			
100	PI/2 BPSK	135	0		17.38		18.9	0.0
100	PI/2 BPSK	135	69		17.55		18.9	0.0
100	PI/2 BPSK	135	138		17.53		18.9	0.0
100	PI/2 BPSK	270	0		17.40			
100	QPSK	1	1		17.61		18.9	0.0
100	QPSK	1	137		17.40			
100	QPSK	1	271		17.50			
100	QPSK	135	0		17.33		18.9	0.0
100	QPSK	135	69		17.50		18.9	0.0
100	QPSK	135	138		17.45		18.9	0.0
100	QPSK	270	0		17.43			
100	16QAM	1	1		17.37		18.9	0.0
100	64QAM	1	1		17.50		18.9	0.0
100	256QAM	1	1		17.27		18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.52	17.47	17.44	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.49	17.56	17.49	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.52	17.52	17.47	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.46	17.44	17.49	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.43	17.49	17.50	18.9	0.0



Part270 n78 DSI0								
BW [MHz]	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	18.9	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.98			
100	PI/2 BPSK	1	137		17.92		18.9	0.0
100	PI/2 BPSK	1	271		17.98			
100	PI/2 BPSK	135	0		17.80			
100	PI/2 BPSK	135	69		18.00		18.9	0.0
100	PI/2 BPSK	135	138		17.96			
100	PI/2 BPSK	270	0		17.97			
100	QPSK	1	1		18.11		18.9	0.0
100	QPSK	1	137		18.01			
100	QPSK	1	271		18.08			
100	QPSK	135	0		17.90		18.9	0.0
100	QPSK	135	69		18.06			
100	QPSK	135	138		17.94			
100	QPSK	270	0		18.01		18.9	0.0
100	16QAM	1	1		17.80			
100	64QAM	1	1		17.95			
100	256QAM	1	1		17.71		18.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.95	18.00	17.96	18.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.97	17.98	17.99	18.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.00	17.95	17.94	18.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.01	18.02	17.96	18.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.02	17.96	17.94	18.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.98	18.01	18.05	18.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.07	18.00	18.09	18.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.98	18.07	18.08	18.9	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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.89			
100	PI/2 BPSK	1	137		17.78		18.9	0.0
100	PI/2 BPSK	1	271		17.90			
100	PI/2 BPSK	135	0		17.76			
100	PI/2 BPSK	135	69		17.97		18.9	0.0
100	PI/2 BPSK	135	138		17.90			
100	PI/2 BPSK	270	0		17.85			
100	QPSK	1	1		18.03		18.9	0.0
100	QPSK	1	137		17.95			
100	QPSK	1	271		18.02			
100	QPSK	135	0		17.72		18.9	0.0
100	QPSK	135	69		17.91			
100	QPSK	135	138		17.88			
100	QPSK	270	0		17.93		18.9	0.0
100	16QAM	1	1		17.75			
100	64QAM	1	1		17.87			
100	256QAM	1	1		17.60		18.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.98	17.98	17.93	18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.97	17.86	17.92	18.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.01	17.93	18.00	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.90	17.94	17.97	18.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.92	17.90	17.94	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.86	17.92	17.88	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.00	17.89	17.91	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.99	17.87	17.96	18.9	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				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.95	19.99	19.76		
100	PI/2 BPSK	1	137	19.92	19.96	19.91	21.0	0.0
100	PI/2 BPSK	1	271	19.81	19.93	19.66		
100	PI/2 BPSK	135	0	19.73	19.84	19.75		
100	PI/2 BPSK	135	69	19.69	19.93	19.92	21.0	0.0
100	PI/2 BPSK	135	138	19.82	19.78	19.85		
100	PI/2 BPSK	270	0	19.91	19.84	19.75		
100	QPSK	1	1	19.84	20.04	19.93	21.0	0.0
100	QPSK	1	137	19.75	19.74	19.73		
100	QPSK	1	271	19.74	19.81	19.60		
100	QPSK	135	0	19.58	19.75	19.73	21.0	0.0
100	QPSK	135	69	19.59	19.91	19.83		
100	QPSK	135	138	19.68	19.72	19.60		
100	QPSK	270	0	19.65	19.76	19.56	21.0	0.0
100	16QAM	1	1	19.91	19.95	19.93		
100	64QAM	1	1	19.96	19.95	19.82		
100	256QAM	1	1	19.89	19.92	19.97	21.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.80	19.90	19.83	21.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.72	19.87	19.76	21.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.70	19.92	19.76	21.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.70	19.91	19.85	21.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.69	20.00	19.86	21.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.78	19.99	19.90	21.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	19.89	19.86	21.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.67	20.01	19.90	21.0	0.0



Par270 n77 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.92	18.89	18.80	19.8	0.0
100	PI/2 BPSK	1	137	18.80	18.88	18.77		
100	PI/2 BPSK	1	271	18.98	18.80	18.73		
100	PI/2 BPSK	135	0	18.80	18.70	18.73	19.8	0.0
100	PI/2 BPSK	135	69	18.88	18.77	18.73	19.8	0.0
100	PI/2 BPSK	135	138	18.71	18.88	18.63	19.8	0.0
100	PI/2 BPSK	270	0	18.70	18.95	18.64		
100	QPSK	1	1	18.90	19.01	18.84	19.8	0.0
100	QPSK	1	137	18.87	18.93	18.88		
100	QPSK	1	271	18.81	18.93	18.85		
100	QPSK	135	0	18.73	18.75	18.72	19.8	0.0
100	QPSK	135	69	18.83	18.90	18.88	19.8	0.0
100	QPSK	135	138	18.73	18.82	18.80	19.8	0.0
100	QPSK	270	0	18.68	18.84	18.73		
100	16QAM	1	1	18.72	18.70	18.67	19.8	0.0
100	64QAM	1	1	18.77	18.75	18.69	19.8	0.0
100	256QAM	1	1	18.62	18.73	18.78	19.8	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.79	18.98	18.72	19.8	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.86	18.94	18.77	19.8	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.84	18.96	18.75	19.8	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.87	18.91	18.80	19.8	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.87	18.88	18.69	19.8	0.0



Part27Q n77 DSI0								
BW [MHz]	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		19.8	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.93		19.8	0.0
100	PI/2 BPSK	1	137		19.04			
100	PI/2 BPSK	1	271		18.85			
100	PI/2 BPSK	135	0		18.73		19.8	0.0
100	PI/2 BPSK	135	69		18.89		19.8	0.0
100	PI/2 BPSK	135	138		19.04		19.8	0.0
100	PI/2 BPSK	270	0		19.03			
100	QPSK	1	1		19.06		19.8	0.0
100	QPSK	1	137		19.02			
100	QPSK	1	271		19.03			
100	QPSK	135	0		18.83		19.8	0.0
100	QPSK	135	69		19.04		19.8	0.0
100	QPSK	135	138		18.94		19.8	0.0
100	QPSK	270	0		18.93			
100	16QAM	1	1		18.76		19.8	0.0
100	64QAM	1	1		18.91		19.8	0.0
100	256QAM	1	1		18.82		19.8	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.92	18.96	18.89	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.03	19.02	18.88	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.97	18.94	19.03	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.94	19.00	18.99	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.98	18.93	18.98	19.8	0.0



Part270 n78 DSI0								
BW [MHz]	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	19.8	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		18.77			
100	PI/2 BPSK	1	137		18.93		19.8	0.0
100	PI/2 BPSK	1	271		18.79			
100	PI/2 BPSK	135	0		18.57			
100	PI/2 BPSK	135	69		18.71		19.8	0.0
100	PI/2 BPSK	135	138		18.97		19.8	0.0
100	PI/2 BPSK	270	0		18.90			
100	QPSK	1	1		18.99			
100	QPSK	1	137		18.85		19.8	0.0
100	QPSK	1	271		18.92			
100	QPSK	135	0		18.71			
100	QPSK	135	69		18.92		19.8	0.0
100	QPSK	135	138		18.76		19.8	0.0
100	QPSK	270	0		18.89			
100	16QAM	1	1		18.63			
100	64QAM	1	1		18.73		19.8	0.0
100	256QAM	1	1		18.69		19.8	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.95	18.93	18.81	19.8	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.88	18.81	18.87	19.8	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.87	18.96	18.82	19.8	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.82	18.88	18.94	19.8	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.92	18.94	18.88	19.8	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.89	18.91	18.88	19.8	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.92	18.89	18.85	19.8	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.94	18.83	18.90	19.8	0.0





Part27Q 78 DSI0								
BW [MHz]	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		19.8	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.89			
100	PI/2 BPSK	1	137		19.09			
100	PI/2 BPSK	1	271		18.96			
100	PI/2 BPSK	135	0		18.73		19.8	0.0
100	PI/2 BPSK	135	69		18.79		19.8	0.0
100	PI/2 BPSK	135	138		19.07		19.8	0.0
100	PI/2 BPSK	270	0		19.08			
100	QPSK	1	1		19.11		19.8	0.0
100	QPSK	1	137		18.96			
100	QPSK	1	271		18.96			
100	QPSK	135	0		18.82		19.8	0.0
100	QPSK	135	69		19.03		19.8	0.0
100	QPSK	135	138		18.89		19.8	0.0
100	QPSK	270	0		18.94			
100	16QAM	1	1		18.75		19.8	0.0
100	64QAM	1	1		18.76		19.8	0.0
100	256QAM	1	1		18.87		19.8	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.94	19.04	18.93	19.8	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.08	19.00	19.03	19.8	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.00	18.99	19.04	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.07	19.04	19.03	19.8	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.08	19.07	18.98	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.09	19.01	19.07	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.99	19.02	19.05	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.05	18.96	19.09	19.8	0.0

**Reduced Power Mode for DSI 1**

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n2 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	17.9	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	17.03	17.17	17.04		
20	PI/2 BPSK	1	53	17.00	17.14	17.01	17.9	0.0
20	PI/2 BPSK	1	104	17.02	17.09	16.96		
20	PI/2 BPSK	50	0	16.97	17.11	17.02		
20	PI/2 BPSK	50	28	17.10	17.15	17.02	17.9	0.0
20	PI/2 BPSK	50	56	17.06	17.10	17.00		
20	PI/2 BPSK	100	0	16.99	17.08	17.05		
20	QPSK	1	1	17.11	17.21	17.17	17.9	0.0
20	QPSK	1	53	17.08	17.18	17.12		
20	QPSK	1	104	16.99	17.12	16.99		
20	QPSK	50	0	17.08	17.13	17.01	17.9	0.0
20	QPSK	50	28	17.06	17.18	17.10		
20	QPSK	50	56	17.03	17.07	16.95		
20	QPSK	100	0	17.08	17.14	17.03	17.9	0.0
20	16QAM	1	1	17.05	17.15	17.02		
20	64QAM	1	1	17.03	17.14	17.07		
20	256QAM	1	1	17.02	17.05	16.95	17.9	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	17.00	17.12	17.14	17.9	0.0
Channel				371000	376000	381000	17.9	0.0
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	17.04	17.13	17.11		
Channel				370500	376000	381500	17.9	0.0
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	17.07	17.15	17.03		



n5 DS11								
BW [MHz]	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	22.1	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	21.34	21.40	21.27	22.1	0.0
20	PI/2 BPSK	1	53	21.22	21.35	21.29		
20	PI/2 BPSK	1	104	21.22	21.33	21.21		
20	PI/2 BPSK	50	0	21.23	21.28	21.19	22.1	0.0
20	PI/2 BPSK	50	28	21.27	21.31	21.28	22.1	0.0
20	PI/2 BPSK	50	56	21.09	21.22	21.14	22.1	0.0
20	PI/2 BPSK	100	0	21.20	21.23	21.18		
20	QPSK	1	1	21.36	21.42	21.32	22.1	0.0
20	QPSK	1	53	21.16	21.24	21.19		
20	QPSK	1	104	21.06	21.12	21.04		
20	QPSK	50	0	21.16	21.22	21.16	22.1	0.0
20	QPSK	50	28	21.13	21.27	21.15	22.1	0.0
20	QPSK	50	56	21.10	21.18	21.11	22.1	0.0
20	QPSK	100	0	21.16	21.24	21.21		
20	16QAM	1	1	21.13	21.27	21.20	22.1	0.0
20	64QAM	1	1	21.11	21.21	21.10	22.1	0.0
20	256QAM	1	1	19.73	19.79	19.65	20.6	1.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	21.32	21.29	21.23	22.1	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	21.22	21.38	21.19	22.1	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	21.31	21.36	21.20	22.1	0.0



n7 DS11								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	15.6	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	14.45	14.52	14.44		
50	PI/2 BPSK	1	135	14.35	14.49	14.40	15.6	0.0
50	PI/2 BPSK	1	268	14.29	14.43	14.30		
50	PI/2 BPSK	135	0	14.31	14.45	14.34		
50	PI/2 BPSK	135	68	14.43	14.51	14.44	15.6	0.0
50	PI/2 BPSK	135	135	14.28	14.34	14.25	15.6	0.0
50	PI/2 BPSK	270	0	14.27	14.36	14.29		
50	QPSK	1	1	14.46	14.55	14.41		
50	QPSK	1	135	14.47	14.52	14.42	15.6	0.0
50	QPSK	1	268	14.28	14.36	14.22		
50	QPSK	135	0	14.27	14.37	14.29		
50	QPSK	135	68	14.36	14.42	14.31	15.6	0.0
50	QPSK	135	135	14.43	14.50	14.35	15.6	0.0
50	QPSK	270	0	14.32	14.39	14.35		
50	16QAM	1	1	14.34	14.47	14.38		
50	64QAM	1	1	14.36	14.41	14.34	15.6	0.0
50	256QAM	1	1	14.22	14.36	14.21	15.6	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	14.35	14.49	14.27	15.6	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	14.42	14.47	14.31	15.6	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	14.36	14.49	14.28	15.6	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	14.39	14.43	14.37	15.6	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	14.32	14.51	14.35	15.6	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.40	14.47	14.29	15.6	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.35	14.46	14.30	15.6	0.0



n12 DS11								
BW [MHz]	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	PI/2 BPSK	1	1	22.95	23.04	23.00	24.0	0.0
15	PI/2 BPSK	1	40	22.91	22.94	22.84		
15	PI/2 BPSK	1	77	22.92	23.07	22.95		
15	PI/2 BPSK	36	0	22.51	22.56	22.53	23.5	0.5
15	PI/2 BPSK	36	22	22.92	23.02	22.88	24.0	0.0
15	PI/2 BPSK	36	43	22.48	22.48	22.40	23.5	0.5
15	PI/2 BPSK	75	0	22.39	22.61	22.52		
15	QPSK	1	1	23.04	23.08	22.95	24.0	0.0
15	QPSK	1	40	23.05	23.06	22.95		
15	QPSK	1	77	22.81	22.98	22.97		
15	QPSK	36	0	21.99	22.14	21.94	23.0	1.0
15	QPSK	36	22	22.90	23.03	22.88	24.0	0.0
15	QPSK	36	43	21.91	22.09	22.04	23.0	1.0
15	QPSK	75	0	22.14	22.16	21.94		
15	16QAM	1	1	22.32	22.31	22.10	23.0	1.0
15	64QAM	1	1	20.77	20.79	20.68	21.5	2.5
	256QAM	1	1	18.67	18.80	18.81	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	23.07	22.95	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	22.87	22.90	22.94	24.0	0.0

n13 DS11								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					156400		24.0	0.0
Frequency (MHz)					782			
10	PI/2 BPSK	1	1		22.95		24.0	0.0
10	PI/2 BPSK	1	26		22.83			
10	PI/2 BPSK	1	50		22.96			
10	PI/2 BPSK	25	0		22.39		23.5	0.5
10	PI/2 BPSK	25	14		22.95		24.0	0.0
10	PI/2 BPSK	25	27		22.40		23.5	0.5
10	PI/2 BPSK	50	0		22.48			
10	QPSK	1	1		22.98		24.0	0.0
10	QPSK	1	26		22.93			
10	QPSK	1	50		22.89			
10	QPSK	25	0		21.95		23.0	1.0
10	QPSK	25	14		22.95		24.0	0.0
10	QPSK	25	27		21.92		23.0	1.0
10	QPSK	50	0		21.98			
10	16QAM	1	1		22.02		23.0	1.0
10	64QAM	1	1		20.31		21.5	2.5
10	256QAM	1	1		18.35		19.5	4.5
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	13	22.81	22.87	22.74	24.0	0.0



n14 DS11								
BW [MHz]	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		22.4	0.0
Frequency (MHz)					793			
10	PI/2 BPSK	1	1		21.42		22.4	0.0
10	PI/2 BPSK	1	26		21.36			
10	PI/2 BPSK	1	50		21.23			
10	PI/2 BPSK	25	0		20.95		22.4	0.0
10	PI/2 BPSK	25	14		21.14		22.4	0.0
10	PI/2 BPSK	25	27		21.32		22.4	0.0
10	PI/2 BPSK	50	0		21.29			
10	QPSK	1	1		21.44		22.4	0.0
10	QPSK	1	26		21.19			
10	QPSK	1	50		21.24			
10	QPSK	25	0		21.11		22.4	0.0
10	QPSK	25	14		21.38		22.4	0.0
10	QPSK	25	27		21.24		22.4	0.0
10	QPSK	50	0		21.26			
10	16QAM	1	1		21.18		22.4	0.0
10	64QAM	1	1		20.46		21.4	1.0
10	256QAM	1	1		18.39		19.4	3.0
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	13	21.20	21.39	21.31	22.4	0.0



n25 DS11								
BW [MHz]	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	376500	381000	17.9	0.0
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	17.17	17.20	17.07	17.9	0.0
20	PI/2 BPSK	1	53	17.12	17.15	17.08		
20	PI/2 BPSK	1	104	16.97	17.12	17.07		
20	PI/2 BPSK	50	0	17.14	17.23	17.12	17.9	0.0
20	PI/2 BPSK	50	28	17.14	17.27	17.14	17.9	0.0
20	PI/2 BPSK	50	56	16.98	17.11	17.07	17.9	0.0
20	PI/2 BPSK	100	0	17.19	17.24	17.19		
20	QPSK	1	1	17.23	17.29	17.16	17.9	0.0
20	QPSK	1	53	17.06	17.16	17.05		
20	QPSK	1	104	17.00	17.15	17.11		
20	QPSK	50	0	17.06	17.18	17.08	17.9	0.0
20	QPSK	50	28	17.19	17.22	17.13	17.9	0.0
20	QPSK	50	56	17.12	17.20	17.08	17.9	0.0
20	QPSK	100	0	17.09	17.17	17.10		
20	16QAM	1	1	17.16	17.23	17.14	17.9	0.0
20	64QAM	1	1	17.07	17.20	17.16	17.9	0.0
20	256QAM	1	1	17.00	17.12	17.05	17.9	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	17.18	17.23	17.04	17.9	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	17.09	17.23	17.07	17.9	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	17.08	17.19	17.09	17.9	0.0





n66 DS11								
BW [MHz]	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	19.5	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	18.27	18.36	18.23		
30	PI/2 BPSK	1	80	18.19	18.31	18.18	19.5	0.0
30	PI/2 BPSK	1	158	18.17	18.27	18.19		
30	PI/2 BPSK	80	0	18.26	18.33	18.19		
30	PI/2 BPSK	80	40	18.27	18.35	18.24	19.5	0.0
30	PI/2 BPSK	80	80	18.14	18.23	18.11	19.5	0.0
30	PI/2 BPSK	160	0	18.29	18.34	18.29		
30	QPSK	1	1	18.36	18.44	18.38		
30	QPSK	1	80	18.31	18.39	18.29	19.5	0.0
30	QPSK	1	158	18.25	18.33	18.20		
30	QPSK	80	0	18.21	18.35	18.28		
30	QPSK	80	40	18.31	18.39	18.29	19.5	0.0
30	QPSK	80	80	18.17	18.31	18.24	19.5	0.0
30	QPSK	160	0	18.28	18.38	18.23		
30	16QAM	1	1	18.23	18.34	18.28		
30	64QAM	1	1	18.20	18.30	18.23	19.5	0.0
30	256QAM	1	1	18.23	18.32	18.24	19.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	18.30	18.41	18.34	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	18.32	18.38	18.34	19.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.31	18.35	18.29	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	18.27	18.37	18.33	19.5	0.0



n71 DS11								
BW [MHz]	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	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.16	23.01	24.0	0.0
20	PI/2 BPSK	1	53	22.97	23.06	23.00		
20	PI/2 BPSK	1	104	22.99	22.98	22.98		
20	PI/2 BPSK	50	0	22.61	22.66	22.65	23.5	0.5
20	PI/2 BPSK	50	28	22.93	23.09	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.44	22.53	22.50	23.5	0.5
20	PI/2 BPSK	100	0	22.54	22.64	22.55		
20	QPSK	1	1	23.05	23.19	23.16	24.0	0.0
20	QPSK	1	53	22.84	23.03	23.04		
20	QPSK	1	104	22.79	22.96	22.94		
20	QPSK	50	0	22.16	22.18	22.13	23.0	1.0
20	QPSK	50	28	23.14	23.17	23.16	24.0	0.0
20	QPSK	50	56	22.06	22.05	22.04	23.0	1.0
20	QPSK	100	0	21.99	22.14	22.03		
20	16QAM	1	1	22.22	22.36	22.29	23.0	1.0
20	64QAM	1	1	20.66	20.85	20.70	21.5	2.5
20	256QAM	1	1	18.34	18.49	18.48	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.97	23.12	23.05	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.07	23.03	23.01	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.03	22.99	23.00	24.0	0.0



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n41 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	16.9	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.44	15.53	15.49	16.9	0.0
100	PI/2 BPSK	1	137	15.49	15.52	15.35		
100	PI/2 BPSK	1	271	15.36	15.50	15.46		
100	PI/2 BPSK	135	0	15.39	15.50	15.44	16.9	0.0
100	PI/2 BPSK	135	69	15.50	15.58	15.46	16.9	0.0
100	PI/2 BPSK	135	138	15.38	15.47	15.30	16.9	0.0
100	PI/2 BPSK	270	0	15.47	15.53	15.40		
100	QPSK	1	1	15.68	15.71	15.63	16.9	0.0
100	QPSK	1	137	15.44	15.56	15.47		
100	QPSK	1	271	15.41	15.58	15.45		
100	QPSK	135	0	15.28	15.42	15.37	16.9	0.0
100	QPSK	135	69	15.54	15.64	15.47	16.9	0.0
100	QPSK	135	138	15.41	15.55	15.50	16.9	0.0
100	QPSK	270	0	15.47	15.57	15.46		
100	16QAM	1	1	15.42	15.46	15.38	16.9	0.0
100	64QAM	1	1	15.39	15.57	15.43	16.9	0.0
100	256QAM	1	1	15.32	15.41	15.27	16.9	0.0
Channel				508200	518598	528996	16.9	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.57	15.58	15.56	16.9	0.0
Channel				507204	518598	529998	16.9	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.54	15.57	15.51	16.9	0.0
Channel				506202	518598	531000	16.9	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.53	15.66	15.57	16.9	0.0
Channel				505200	518598	531996	16.9	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.66	15.55	15.47	16.9	0.0
Channel				504204	518598	532998	16.9	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.65	15.62	15.52	16.9	0.0
Channel				503202	518598	534000	16.9	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.56	15.57	15.53	16.9	0.0
Channel				502200	518598	534996	16.9	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.52	15.60	15.53	16.9	0.0
Channel				501204	518598	535998	16.9	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.57	15.68	15.53	16.9	0.0



Par270 n77 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.43	16.58	16.50	17.4	0.0
100	PI/2 BPSK	1	137	16.32	16.46	16.35		
100	PI/2 BPSK	1	271	16.53	16.57	16.39		
100	PI/2 BPSK	135	0	16.32	16.48	16.42	17.4	0.0
100	PI/2 BPSK	135	69	16.42	16.52	16.41	17.4	0.0
100	PI/2 BPSK	135	138	16.49	16.52	16.48	17.4	0.0
100	PI/2 BPSK	270	0	16.48	16.55	16.50		
100	QPSK	1	1	16.57	16.68	16.61	17.4	0.0
100	QPSK	1	137	16.48	16.57	16.45		
100	QPSK	1	271	16.56	16.65	16.48		
100	QPSK	135	0	16.24	16.40	16.32	17.4	0.0
100	QPSK	135	69	16.53	16.66	16.55	17.4	0.0
100	QPSK	135	138	16.47	16.45	16.34	17.4	0.0
100	QPSK	270	0	16.36	16.50	16.42		
100	16QAM	1	1	16.30	16.41	16.30	17.4	0.0
100	64QAM	1	1	16.43	16.50	16.37	17.4	0.0
100	256QAM	1	1	16.28	16.38	16.31	17.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.55	16.56	16.55	17.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.53	16.51	16.51	17.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.49	16.62	16.55	17.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.51	16.64	16.49	17.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.41	16.52	16.51	17.4	0.0



Part27Q n77 DS11								
BW [MHz]	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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.72		17.4	0.0
100	PI/2 BPSK	1	137		16.53			
100	PI/2 BPSK	1	271		16.74			
100	PI/2 BPSK	135	0		16.65		17.4	0.0
100	PI/2 BPSK	135	69		16.69		17.4	0.0
100	PI/2 BPSK	135	138		16.59		17.4	0.0
100	PI/2 BPSK	270	0		16.67			
100	QPSK	1	1		16.88		17.4	0.0
100	QPSK	1	137		16.69			
100	QPSK	1	271		16.74			
100	QPSK	135	0		16.54		17.4	0.0
100	QPSK	135	69		16.81		17.4	0.0
100	QPSK	135	138		16.68		17.4	0.0
100	QPSK	270	0		16.75			
100	16QAM	1	1		16.54		17.4	0.0
100	64QAM	1	1		16.66		17.4	0.0
100	256QAM	1	1		16.44		17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.71	16.83	16.75	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.76	16.83	16.85	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.72	16.81	16.76	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.72	16.82	16.85	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.75	16.83	16.73	17.4	0.0



Part27O n78 DS11								
BW [MHz]	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	17.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.41			
100	PI/2 BPSK	1	137		16.29		17.4	0.0
100	PI/2 BPSK	1	271		16.38			
100	PI/2 BPSK	135	0		16.42			
100	PI/2 BPSK	135	69		16.29		17.4	0.0
100	PI/2 BPSK	135	138		16.40			
100	PI/2 BPSK	270	0		16.33			
100	QPSK	1	1		16.51		17.4	0.0
100	QPSK	1	137		16.36			
100	QPSK	1	271		16.40			
100	QPSK	135	0		16.31		17.4	0.0
100	QPSK	135	69		16.48			
100	QPSK	135	138		16.26			
100	QPSK	270	0		16.32		17.4	0.0
100	16QAM	1	1		16.20			
100	64QAM	1	1		16.27			
100	256QAM	1	1		16.05		17.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.34	16.37	16.36	17.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.47	16.34	16.38	17.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.36	16.41	16.44	17.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.41	16.46	16.42	17.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.34	16.48	16.39	17.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.42	16.42	16.45	17.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.38	16.49	16.33	17.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.41	16.40	16.39	17.4	0.0



Part27Q 78 DSI1								
BW [MHz]	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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.61			
100	PI/2 BPSK	1	137		16.36		17.4	0.0
100	PI/2 BPSK	1	271		16.70			
100	PI/2 BPSK	135	0		16.53			
100	PI/2 BPSK	135	69		16.55		17.4	0.0
100	PI/2 BPSK	135	138		16.56			
100	PI/2 BPSK	270	0		16.50			
100	QPSK	1	1		16.81		17.4	0.0
100	QPSK	1	137		16.59			
100	QPSK	1	271		16.64			
100	QPSK	135	0		16.49		17.4	0.0
100	QPSK	135	69		16.75			
100	QPSK	135	138		16.60			
100	QPSK	270	0		16.71		17.4	0.0
100	16QAM	1	1		16.45			
100	64QAM	1	1		16.63			
100	256QAM	1	1		16.31		17.4	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.28	16.41	16.44	17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.41	16.39	16.39	17.4	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.72	16.72	16.75	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.34	16.37	16.36	17.4	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.27	16.34	16.38	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.38	16.49	16.31	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.35	16.72	16.75	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.38	16.42	16.45	17.4	0.0



Ant2

n2 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	17.7	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	16.55	16.59	16.50		
20	PI/2 BPSK	1	53	16.45	16.57	16.47	17.7	0.0
20	PI/2 BPSK	1	104	16.42	16.52	16.43		
20	PI/2 BPSK	50	0	16.53	16.57	16.53		
20	PI/2 BPSK	50	28	16.46	16.61	16.54	17.7	0.0
20	PI/2 BPSK	50	56	16.41	16.54	16.45		
20	PI/2 BPSK	100	0	16.47	16.55	16.48		
20	QPSK	1	1	16.59	16.63	16.50	17.7	0.0
20	QPSK	1	53	16.51	16.57	16.44		
20	QPSK	1	104	16.49	16.55	16.52		
20	QPSK	50	0	16.48	16.52	16.41	17.7	0.0
20	QPSK	50	28	16.54	16.62	16.55		
20	QPSK	50	56	16.50	16.58	16.44		
20	QPSK	100	0	16.44	16.59	16.47	17.7	0.0
20	16QAM	1	1	16.43	16.48	16.39		
20	64QAM	1	1	16.31	16.46	16.37		
20	256QAM	1	1	16.26	16.35	16.32	17.7	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	40	16.53	16.50	16.46	17.7	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	26	16.44	16.56	16.46	17.7	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	13	16.55	16.52	16.38	17.7	0.0





n5 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.90	23.88	23.81	24.5	0.0
20	PI/2 BPSK	1	53	23.87	23.85	23.79		
20	PI/2 BPSK	1	104	23.84	23.82	23.76		
20	PI/2 BPSK	50	0	23.35	23.42	23.43	24.5	0.0
20	PI/2 BPSK	50	28	23.81	23.86	23.77	24.5	0.0
20	PI/2 BPSK	50	56	23.30	23.35	23.34	24.5	0.0
20	PI/2 BPSK	100	0	23.29	23.39	23.33		
20	QPSK	1	1	23.92	23.93	23.82	24.5	0.0
20	QPSK	1	53	23.81	23.83	23.81		
20	QPSK	1	104	23.77	23.85	23.88		
20	QPSK	50	0	22.79	22.95	22.77	24.0	0.5
20	QPSK	50	28	23.78	23.84	23.75	24.5	0.0
20	QPSK	50	56	22.85	22.89	22.83	24.0	0.5
20	QPSK	100	0	22.77	22.83	22.80		
20	16QAM	1	1	22.85	22.90	22.80	24.0	0.5
20	64QAM	1	1	21.35	21.33	21.28	22.5	2.0
20	256QAM	1	1	19.31	19.38	19.35	20.5	4.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.78	23.84	23.79	24.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.80	23.86	23.80	24.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.82	23.90	23.77	24.5	0.0



n7 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	16.3	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	15.16	15.20	15.08		
50	PI/2 BPSK	1	135	15.12	15.19	15.10	16.3	0.0
50	PI/2 BPSK	1	268	15.04	15.16	15.03		
50	PI/2 BPSK	135	0	14.90	15.04	15.01		
50	PI/2 BPSK	135	68	15.01	15.17	15.09	16.3	0.0
50	PI/2 BPSK	135	135	15.03	15.08	14.97	16.3	0.0
50	PI/2 BPSK	270	0	15.00	15.10	15.07		
50	QPSK	1	1	15.13	15.33	15.17		
50	QPSK	1	135	15.10	15.19	15.06	16.3	0.0
50	QPSK	1	268	15.09	15.27	15.25		
50	QPSK	135	0	14.99	15.12	15.04		
50	QPSK	135	68	15.11	15.25	15.07	16.3	0.0
50	QPSK	135	135	15.08	15.11	15.08	16.3	0.0
50	QPSK	270	0	15.03	15.15	15.05		
50	16QAM	1	1	14.90	15.01	14.90		
50	64QAM	1	1	15.02	15.14	14.99	16.3	0.0
50	256QAM	1	1	14.91	14.96	14.82	16.3	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	15.08	15.27	15.11	16.3	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	14.98	15.22	15.02	16.3	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	15.00	15.30	15.07	16.3	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	15.02	15.26	15.13	16.3	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.08	15.27	15.01	16.3	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.03	15.29	15.04	16.3	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.06	15.31	15.13	16.3	0.0



n25 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	16.55	16.61	16.50	17.7	0.0
20	PI/2 BPSK	1	53	16.51	16.62	16.49		
20	PI/2 BPSK	1	104	16.49	16.55	16.46		
20	PI/2 BPSK	50	0	16.58	16.63	16.54	17.7	0.0
20	PI/2 BPSK	50	28	16.44	16.59	16.54	17.7	0.0
20	PI/2 BPSK	50	56	16.42	16.55	16.44	17.7	0.0
20	PI/2 BPSK	100	0	16.54	16.58	16.48		
20	QPSK	1	1	16.57	16.71	16.61	17.7	0.0
20	QPSK	1	53	16.47	16.53	16.40		
20	QPSK	1	104	16.47	16.55	16.41		
20	QPSK	50	0	16.53	16.56	16.58	17.7	0.0
20	QPSK	50	28	16.50	16.62	16.46	17.7	0.0
20	QPSK	50	56	16.49	16.59	16.55	17.7	0.0
20	QPSK	100	0	16.52	16.61	16.53		
20	16QAM	1	1	16.38	16.52	16.43	17.7	0.0
20	64QAM	1	1	16.39	16.47	16.35	17.7	0.0
20	256QAM	1	1	16.33	16.44	16.40	17.7	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	16.42	16.63	16.50	17.7	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	16.46	16.62	16.48	17.7	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	16.51	16.61	16.47	17.7	0.0

n66 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000	17.3	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	16.42	16.53	16.46		
30	PI/2 BPSK	1	80	16.37	16.49	16.42	17.3	0.0
30	PI/2 BPSK	1	158	16.42	16.47	16.36		
30	PI/2 BPSK	80	0	16.43	16.50	16.47		
30	PI/2 BPSK	80	40	16.52	16.57	16.52	17.3	0.0
30	PI/2 BPSK	80	80	16.40	16.45	16.31		
30	PI/2 BPSK	160	0	16.38	16.51	16.40		
30	QPSK	1	1	16.51	16.59	16.45	17.3	0.0
30	QPSK	1	80	16.45	16.52	16.37		
30	QPSK	1	158	16.43	16.50	16.42		
30	QPSK	80	0	16.40	16.54	16.41	17.3	0.0
30	QPSK	80	40	16.47	16.57	16.49		
30	QPSK	80	80	16.48	16.51	16.40		
30	QPSK	160	0	16.44	16.55	16.49	17.3	0.0
30	16QAM	1	1	16.32	16.43	16.28		
30	64QAM	1	1	16.33	16.39	16.32		
30	256QAM	1	1	16.29	16.36	16.25	17.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.42	16.53	16.34	17.3	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.36	16.56	16.35	17.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.39	16.44	16.37	17.3	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.46	16.46	16.32	17.3	0.0



n38 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	16.1	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.19	14.20	14.12	16.1	0.0
40	PI/2 BPSK	1	53	14.13	14.13	14.13		
40	PI/2 BPSK	1	104	14.18	14.18	14.17		
40	PI/2 BPSK	50	0	14.17	14.16	14.19	16.1	0.0
40	PI/2 BPSK	50	28	14.15	14.11	14.16	16.1	0.0
40	PI/2 BPSK	50	56	14.13	14.19	14.14	16.1	0.0
40	PI/2 BPSK	100	0	14.19	14.12	14.15		
40	QPSK	1	1	14.21	14.25	14.12	16.1	0.0
40	QPSK	1	53	14.24	14.18	14.18		
40	QPSK	1	104	14.18	14.13	14.18		
40	QPSK	50	0	14.14	14.20	14.17	16.1	0.0
40	QPSK	50	28	14.20	14.25	14.13	16.1	0.0
40	QPSK	50	56	14.11	14.16	14.15	16.1	0.0
40	QPSK	100	0	14.11	14.20	14.18		
40	16QAM	1	1	14.16	14.19	14.11	16.1	0.0
40	64QAM	1	1	14.24	14.12	14.15	16.1	0.0
40	256QAM	1	1	14.11	14.17	14.12	16.1	0.0
Channel				517002	519000	520998	16.1	0.0
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.13	14.19	14.16	16.1	0.0
Channel				516000	519000	522000	16.1	0.0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	14.16	14.15	14.18	16.1	0.0



n41 PC2&3 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	16.1	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.19	14.19	14.19	16.1	0.0
100	PI/2 BPSK	1	137	14.12	14.18	14.20		
100	PI/2 BPSK	1	271	14.14	14.15	14.12		
100	PI/2 BPSK	135	0	14.18	14.20	14.14	16.1	0.0
100	PI/2 BPSK	135	69	14.17	14.17	14.18	16.1	0.0
100	PI/2 BPSK	135	138	14.13	14.19	14.16	16.1	0.0
100	PI/2 BPSK	270	0	14.16	14.18	14.18		
100	QPSK	1	1	14.15	14.39	14.18	16.1	0.0
100	QPSK	1	137	14.17	14.23	14.11		
100	QPSK	1	271	14.15	14.20	14.16		
100	QPSK	135	0	14.14	14.19	14.14	16.1	0.0
100	QPSK	135	69	14.20	14.23	14.20	16.1	0.0
100	QPSK	135	138	14.15	14.18	14.19	16.1	0.0
100	QPSK	270	0	14.17	14.20	14.13		
100	16QAM	1	1	14.18	14.14	14.12	16.1	0.0
100	64QAM	1	1	14.15	14.25	14.13	16.1	0.0
100	256QAM	1	1	14.20	14.19	14.16	16.1	0.0
Channel				508200	518598	528996	16.1	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.17	14.21	14.15	16.1	0.0
Channel				507204	518598	529998	16.1	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.11	14.24	14.13	16.1	0.0
Channel				506202	518598	531000	16.1	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.16	14.19	14.14	16.1	0.0
Channel				505200	518598	531996	16.1	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.18	14.21	14.20	16.1	0.0
Channel				504204	518598	532998	16.1	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.11	14.16	14.20	16.1	0.0
Channel				503202	518598	534000	16.1	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.13	14.23	14.12	16.1	0.0
Channel				502200	518598	534996	16.1	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.16	14.18	14.15	16.1	0.0
Channel				501204	518598	535998	16.1	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.14	14.15	14.17	16.1	0.0



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n48 DSI 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				638000	641666	645332	16.5	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	15.47	15.51	15.42	16.5	0.0
40	PI/2 BPSK	1	53	15.34	15.48	15.33		
40	PI/2 BPSK	1	104	15.35	15.41	15.36		
40	PI/2 BPSK	50	0	15.22	15.39	15.24	16.5	0.0
40	PI/2 BPSK	50	28	15.38	15.49	15.39	16.5	0.0
40	PI/2 BPSK	50	56	15.30	15.37	15.23	16.5	0.0
40	PI/2 BPSK	100	0	15.27	15.40	15.29		
40	QPSK	1	1	15.51	15.64	15.58	16.5	0.0
40	QPSK	1	53	15.42	15.49	15.39		
40	QPSK	1	104	15.48	15.52	15.34		
40	QPSK	50	0	15.22	15.38	15.32	16.5	0.0
40	QPSK	50	28	15.58	15.62	15.60	16.5	0.0
40	QPSK	50	56	15.31	15.41	15.31	16.5	0.0
40	QPSK	100	0	15.31	15.44	15.36		
40	16QAM	1	1	15.29	15.33	15.30	16.5	0.0
40	64QAM	1	1	15.33	15.49	15.45	15.0	1.5
40	256QAM	1	1	15.07	15.23	15.08	13.0	3.5
Channel				637334	641666	646000	16.5	0.0
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	15.43	15.55	15.44	16.5	0.0
Channel				637000	641666	646332	16.5	0.0
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	15.48	15.51	15.42	16.5	0.0



Par270 n77 DSI 1 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.46	15.66	15.50	16.4	0.0
100	PI/2 BPSK	1	137	15.36	15.46	15.29		
100	PI/2 BPSK	1	271	15.44	15.54	15.45		
100	PI/2 BPSK	135	0	15.28	15.36	15.18	16.4	0.0
100	PI/2 BPSK	135	69	15.47	15.46	15.48	16.4	0.0
100	PI/2 BPSK	135	138	15.40	15.45	15.13	16.4	0.0
100	PI/2 BPSK	270	0	15.25	15.35	15.23		
100	QPSK	1	1	15.53	15.68	15.61		
100	QPSK	1	137	15.48	15.55	15.40	16.4	0.0
100	QPSK	1	271	15.46	15.58	15.33		
100	QPSK	135	0	15.24	15.39	15.40		
100	QPSK	135	69	15.55	15.60	15.50	16.4	0.0
100	QPSK	135	138	15.23	15.36	15.33	16.4	0.0
100	QPSK	270	0	15.37	15.52	15.40		
100	16QAM	1	1	15.17	15.23	15.21		
100	64QAM	1	1	15.33	15.51	15.48	16.4	0.0
100	256QAM	1	1	15.02	15.24	15.05	16.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.50	15.65	15.46	16.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.43	15.52	15.52	16.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.50	15.58	15.50	16.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.49	15.62	15.56	16.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.49	15.54	15.51	16.4	0.0





Part27Q n77 DSI 1 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		16.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		15.34		16.4	0.0
100	PI/2 BPSK	1	137		15.09			
100	PI/2 BPSK	1	271		15.27			
100	PI/2 BPSK	135	0		15.06		16.4	0.0
100	PI/2 BPSK	135	69		15.09		16.4	0.0
100	PI/2 BPSK	135	138		15.12		16.4	0.0
100	PI/2 BPSK	270	0		15.04			
100	QPSK	1	1		15.39			
100	QPSK	1	137		15.20		16.4	0.0
100	QPSK	1	271		15.24			
100	QPSK	135	0		15.06			
100	QPSK	135	69		15.36		16.4	0.0
100	QPSK	135	138		14.98		16.4	0.0
100	QPSK	270	0		15.17			
100	16QAM	1	1		14.88			
100	64QAM	1	1		15.16		16.4	0.0
100	256QAM	1	1		14.93		16.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.33	15.30	15.24	16.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.30	15.33	15.28	16.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.27	15.25	15.35	16.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.24	15.35	15.34	16.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.31	15.23	15.35	16.4	0.0



Part270 n78 DSI 1 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	16.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		15.23		16.4	0.0
100	PI/2 BPSK	1	137		14.93			
100	PI/2 BPSK	1	271		15.18			
100	PI/2 BPSK	135	0		14.98		16.4	0.0
100	PI/2 BPSK	135	69		14.96		16.4	0.0
100	PI/2 BPSK	135	138		14.97		16.4	0.0
100	PI/2 BPSK	270	0		14.86			
100	QPSK	1	1		15.29			
100	QPSK	1	137		15.09		16.4	0.0
100	QPSK	1	271		15.15			
100	QPSK	135	0		15.01			
100	QPSK	135	69		15.27		16.4	0.0
100	QPSK	135	138		14.87		16.4	0.0
100	QPSK	270	0		15.00			
100	16QAM	1	1		14.73			
100	64QAM	1	1		15.07		16.4	0.0
100	256QAM	1	1		14.84		16.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.16	15.22	15.17	16.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.16	15.24	15.12	16.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.20	15.11	15.16	16.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.14	15.16	15.16	16.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.24	15.17	15.26	16.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.15	15.14	15.23	16.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	15.22	15.18	15.17	16.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.27	15.21	15.20	16.4	0.0



Part27Q 78 DSI 1 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		16.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		15.28			
100	PI/2 BPSK	1	137		14.94		16.4	0.0
100	PI/2 BPSK	1	271		15.21			
100	PI/2 BPSK	135	0		14.91			
100	PI/2 BPSK	135	69		15.04		16.4	0.0
100	PI/2 BPSK	135	138		15.00			
100	PI/2 BPSK	270	0		14.93			
100	QPSK	1	1		15.34		16.4	0.0
100	QPSK	1	137		15.13			
100	QPSK	1	271		15.11			
100	QPSK	135	0		15.03		16.4	0.0
100	QPSK	135	69		15.30			
100	QPSK	135	138		14.91			
100	QPSK	270	0		15.08		16.4	0.0
100	16QAM	1	1		14.82			
100	64QAM	1	1		15.00			
100	256QAM	1	1		14.78		13.4	3.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.23	15.18	15.19	16.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.28	15.22	15.31	16.4	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.20	15.16	15.29	16.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.22	15.23	15.28	16.4	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.23	15.16	15.26	16.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.30	15.28	15.17	16.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.21	15.22	15.24	16.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.26	15.17	15.25	16.4	0.0



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n41 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	20.1	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.17	19.18	19.16	20.1	0.0
100	PI/2 BPSK	1	137	19.17	19.22	19.12		
100	PI/2 BPSK	1	271	19.16	19.21	19.22		
100	PI/2 BPSK	135	0	19.16	19.24	19.11	20.1	0.0
100	PI/2 BPSK	135	69	19.15	19.21	19.15	20.1	0.0
100	PI/2 BPSK	135	138	19.23	19.24	19.14	20.1	0.0
100	PI/2 BPSK	270	0	19.04	19.21	19.09		
100	QPSK	1	1	19.32	19.35	19.26	20.1	0.0
100	QPSK	1	137	19.16	19.21	19.20		
100	QPSK	1	271	19.16	19.34	19.27		
100	QPSK	135	0	19.10	19.23	18.99	20.1	0.0
100	QPSK	135	69	19.20	19.30	19.29	20.1	0.0
100	QPSK	135	138	19.14	19.22	19.16	20.1	0.0
100	QPSK	270	0	19.07	19.27	19.15		
100	16QAM	1	1	19.20	19.17	19.19	20.1	0.0
100	64QAM	1	1	19.18	19.27	19.19	20.1	0.0
100	256QAM	1	1	19.08	19.13	19.12	20.1	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.24	19.26	19.13	20.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.17	19.30	19.11	20.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.18	19.19	19.22	20.1	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.21	19.33	19.11	20.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.24	19.22	19.14	20.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.16	19.32	19.18	20.1	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.27	19.27	19.16	20.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.30	19.30	19.16	20.1	0.0



Par270 n77 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.84	17.90	17.76	18.9	0.0
100	PI/2 BPSK	1	137	17.77	17.89	17.74		
100	PI/2 BPSK	1	271	17.96	17.86	17.85		
100	PI/2 BPSK	135	0	17.89	17.77	17.69	18.9	0.0
100	PI/2 BPSK	135	69	17.78	17.92	17.82	18.9	0.0
100	PI/2 BPSK	135	138	17.75	17.89	17.63	18.9	0.0
100	PI/2 BPSK	270	0	17.61	17.80	17.69		
100	QPSK	1	1	17.93	17.99	17.82		
100	QPSK	1	137	17.87	17.86	17.93	18.9	0.0
100	QPSK	1	271	17.81	17.97	17.82		
100	QPSK	135	0	17.66	17.77	17.68		
100	QPSK	135	69	17.79	17.95	17.94	18.9	0.0
100	QPSK	135	138	17.81	17.83	17.72	18.9	0.0
100	QPSK	270	0	17.73	17.90	17.75		
100	16QAM	1	1	17.74	17.73	17.76		
100	64QAM	1	1	17.87	17.83	17.80	18.9	0.0
100	256QAM	1	1	17.63	17.66	17.68	18.9	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.76	17.87	17.68	18.9	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.85	17.94	17.66	18.9	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.80	17.90	17.69	18.9	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.80	17.81	17.65	18.9	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.82	17.85	17.78	18.9	0.0



Part27Q n77 DSI1								
BW [MHz]	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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.47		18.9	0.0
100	PI/2 BPSK	1	137		17.55			
100	PI/2 BPSK	1	271		17.39			
100	PI/2 BPSK	135	0		17.38		18.9	0.0
100	PI/2 BPSK	135	69		17.55		18.9	0.0
100	PI/2 BPSK	135	138		17.53		18.9	0.0
100	PI/2 BPSK	270	0		17.40			
100	QPSK	1	1		17.61		18.9	0.0
100	QPSK	1	137		17.40			
100	QPSK	1	271		17.50			
100	QPSK	135	0		17.33		18.9	0.0
100	QPSK	135	69		17.50		18.9	0.0
100	QPSK	135	138		17.45		18.9	0.0
100	QPSK	270	0		17.43			
100	16QAM	1	1		17.37		18.9	0.0
100	64QAM	1	1		17.50		18.9	0.0
100	256QAM	1	1		17.27		18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.52	17.47	17.44	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.49	17.56	17.49	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.52	17.52	17.47	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.46	17.44	17.49	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.43	17.49	17.50	18.9	0.0



Part27O n78 DS11								
BW [MHz]	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	18.9	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.98			
100	PI/2 BPSK	1	137		17.92		18.9	0.0
100	PI/2 BPSK	1	271		17.98			
100	PI/2 BPSK	135	0		17.80			
100	PI/2 BPSK	135	69		18.00		18.9	0.0
100	PI/2 BPSK	135	138		17.96			
100	PI/2 BPSK	270	0		17.97			
100	QPSK	1	1		18.11		18.9	0.0
100	QPSK	1	137		18.01			
100	QPSK	1	271		18.08			
100	QPSK	135	0		17.90		18.9	0.0
100	QPSK	135	69		18.06			
100	QPSK	135	138		17.94			
100	QPSK	270	0		18.01		18.9	0.0
100	16QAM	1	1		17.80			
100	64QAM	1	1		17.95			
100	256QAM	1	1		17.71		18.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.95	18.00	17.96	18.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.97	17.98	17.99	18.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.00	17.95	17.94	18.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.01	18.02	17.96	18.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.02	17.96	17.94	18.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.98	18.01	18.05	18.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.07	18.00	18.09	18.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.98	18.07	18.08	18.9	0.0



Part27Q 78 DSI1								
BW [MHz]	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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.89			
100	PI/2 BPSK	1	137		17.78		18.9	0.0
100	PI/2 BPSK	1	271		17.90			
100	PI/2 BPSK	135	0		17.76			
100	PI/2 BPSK	135	69		17.97		18.9	0.0
100	PI/2 BPSK	135	138		17.90			
100	PI/2 BPSK	270	0		17.85			
100	QPSK	1	1		18.03		18.9	0.0
100	QPSK	1	137		17.95			
100	QPSK	1	271		18.02			
100	QPSK	135	0		17.72		18.9	0.0
100	QPSK	135	69		17.91			
100	QPSK	135	138		17.88			
100	QPSK	270	0		17.93		18.9	0.0
100	16QAM	1	1		17.75			
100	64QAM	1	1		17.87			
100	256QAM	1	1		17.60		18.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.98	17.98	17.93	18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.97	17.86	17.92	18.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.01	17.93	18.00	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.90	17.94	17.97	18.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.92	17.90	17.94	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.86	17.92	17.88	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.00	17.89	17.91	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.99	17.87	17.96	18.9	0.0





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n41 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.95	19.99	19.76	21.0	0.0
100	PI/2 BPSK	1	137	19.92	19.96	19.91		
100	PI/2 BPSK	1	271	19.81	19.93	19.66		
100	PI/2 BPSK	135	0	19.73	19.84	19.75	21.0	0.0
100	PI/2 BPSK	135	69	19.69	19.93	19.92	21.0	0.0
100	PI/2 BPSK	135	138	19.82	19.78	19.85	21.0	0.0
100	PI/2 BPSK	270	0	19.91	19.84	19.75		
100	QPSK	1	1	19.84	20.04	19.93	21.0	0.0
100	QPSK	1	137	19.75	19.74	19.73		
100	QPSK	1	271	19.74	19.81	19.60		
100	QPSK	135	0	19.58	19.75	19.73	21.0	0.0
100	QPSK	135	69	19.59	19.91	19.83	21.0	0.0
100	QPSK	135	138	19.68	19.72	19.60	21.0	0.0
100	QPSK	270	0	19.65	19.76	19.56		
100	16QAM	1	1	19.91	19.95	19.93	21.0	0.0
100	64QAM	1	1	19.96	19.95	19.82	21.0	0.0
100	256QAM	1	1	19.89	19.92	19.97	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.80	19.90	19.83	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.72	19.87	19.76	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.70	19.92	19.76	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.70	19.91	19.85	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.69	20.00	19.86	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.78	19.99	19.90	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	19.89	19.86	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.67	20.01	19.90	21.0	0.0



Par270 n77 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.92	18.89	18.80	19.8	0.0
100	PI/2 BPSK	1	137	18.80	18.88	18.77		
100	PI/2 BPSK	1	271	18.98	18.80	18.73		
100	PI/2 BPSK	135	0	18.80	18.70	18.73	19.8	0.0
100	PI/2 BPSK	135	69	18.88	18.77	18.73	19.8	0.0
100	PI/2 BPSK	135	138	18.71	18.88	18.63	19.8	0.0
100	PI/2 BPSK	270	0	18.70	18.95	18.64		
100	QPSK	1	1	18.90	19.01	18.84	19.8	0.0
100	QPSK	1	137	18.87	18.93	18.88		
100	QPSK	1	271	18.81	18.93	18.85		
100	QPSK	135	0	18.73	18.75	18.72	19.8	0.0
100	QPSK	135	69	18.83	18.90	18.88	19.8	0.0
100	QPSK	135	138	18.73	18.82	18.80	19.8	0.0
100	QPSK	270	0	18.68	18.84	18.73		
100	16QAM	1	1	18.72	18.70	18.67	19.8	0.0
100	64QAM	1	1	18.77	18.75	18.69	19.8	0.0
100	256QAM	1	1	18.62	18.73	18.78	19.8	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.79	18.98	18.72	19.8	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.86	18.94	18.77	19.8	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.84	18.96	18.75	19.8	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.87	18.91	18.80	19.8	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.87	18.88	18.69	19.8	0.0



Part27Q n77 DS11								
BW [MHz]	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		19.8	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.93		19.8	0.0
100	PI/2 BPSK	1	137		19.04			
100	PI/2 BPSK	1	271		18.85		19.8	0.0
100	PI/2 BPSK	135	0		18.73			
100	PI/2 BPSK	135	69		18.89		19.8	0.0
100	PI/2 BPSK	135	138		19.04			
100	PI/2 BPSK	270	0		19.03		19.8	0.0
100	QPSK	1	1		19.06			
100	QPSK	1	137		19.02		19.8	0.0
100	QPSK	1	271		19.03			
100	QPSK	135	0		18.83		19.8	0.0
100	QPSK	135	69		19.04			
100	QPSK	135	138		18.94		19.8	0.0
100	QPSK	270	0		18.93			
100	16QAM	1	1		18.76		19.8	0.0
100	64QAM	1	1		18.91			
100	256QAM	1	1		18.82		19.8	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.92	18.96	18.89	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.03	19.02	18.88	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.97	18.94	19.03	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.94	19.00	18.99	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.98	18.93	18.98	19.8	0.0



Part27O n78 DS11								
BW [MHz]	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	19.8	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		18.77			
100	PI/2 BPSK	1	137		18.93		19.8	0.0
100	PI/2 BPSK	1	271		18.79			
100	PI/2 BPSK	135	0		18.57			
100	PI/2 BPSK	135	69		18.71		19.8	0.0
100	PI/2 BPSK	135	138		18.97		19.8	0.0
100	PI/2 BPSK	270	0		18.90			
100	QPSK	1	1		18.99			
100	QPSK	1	137		18.85		19.8	0.0
100	QPSK	1	271		18.92			
100	QPSK	135	0		18.71			
100	QPSK	135	69		18.92		19.8	0.0
100	QPSK	135	138		18.76		19.8	0.0
100	QPSK	270	0		18.89			
100	16QAM	1	1		18.63			
100	64QAM	1	1		18.73		19.8	0.0
100	256QAM	1	1		18.69		19.8	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.95	18.93	18.81	19.8	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.88	18.81	18.87	19.8	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.87	18.96	18.82	19.8	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.82	18.88	18.94	19.8	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.92	18.94	18.88	19.8	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.89	18.91	18.88	19.8	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.92	18.89	18.85	19.8	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.94	18.83	18.90	19.8	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		19.8	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.89			
100	PI/2 BPSK	1	137		19.09			
100	PI/2 BPSK	1	271		18.96			
100	PI/2 BPSK	135	0		18.73		19.8	0.0
100	PI/2 BPSK	135	69		18.79		19.8	0.0
100	PI/2 BPSK	135	138		19.07		19.8	0.0
100	PI/2 BPSK	270	0		19.08			
100	QPSK	1	1		19.11		19.8	0.0
100	QPSK	1	137		18.96			
100	QPSK	1	271		18.96			
100	QPSK	135	0		18.82		19.8	0.0
100	QPSK	135	69		19.03		19.8	0.0
100	QPSK	135	138		18.89		19.8	0.0
100	QPSK	270	0		18.94			
100	16QAM	1	1		18.75		19.8	0.0
100	64QAM	1	1		18.76		19.8	0.0
100	256QAM	1	1		18.87		19.8	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.94	19.04	18.93	19.8	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.08	19.00	19.03	19.8	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.00	18.99	19.04	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.07	19.04	19.03	19.8	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.08	19.07	18.98	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.09	19.01	19.07	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.99	19.02	19.05	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.05	18.96	19.09	19.8	0.0



Reduced Power Mode for DSI 2

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n2 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	23.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	21.76	21.77	21.72		
20	PI/2 BPSK	1	53	21.70	21.74	21.66	23.0	0.0
20	PI/2 BPSK	1	104	21.82	21.77	21.65		
20	PI/2 BPSK	50	0	21.66	21.68	21.63		
20	PI/2 BPSK	50	28	21.67	21.77	21.61	23.0	0.0
20	PI/2 BPSK	50	56	21.68	21.68	21.53		
20	PI/2 BPSK	100	0	21.62	21.69	21.54		
20	QPSK	1	1	21.72	21.88	21.70	23.0	0.0
20	QPSK	1	53	21.65	21.68	21.78		
20	QPSK	1	104	21.70	21.76	21.66		
20	QPSK	50	0	21.55	21.67	21.61	23.0	0.0
20	QPSK	50	28	21.72	21.84	21.74		
20	QPSK	50	56	21.67	21.80	21.63		
20	QPSK	100	0	21.67	21.77	21.66	23.0	0.0
20	16QAM	1	1	21.64	21.67	21.62		
20	64QAM	1	1	21.41	21.42	21.44		
20	256QAM	1	1	19.23	19.24	19.22	20.5	2.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.55	21.78	21.61	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.60	21.71	21.54	23.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.59	21.82	21.53	23.0	0.0



n5 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	25.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.39	24.43	24.27		
20	PI/2 BPSK	1	53	24.18	24.34	24.28	24.5	0.5
20	PI/2 BPSK	1	104	24.12	24.21	24.15		
20	PI/2 BPSK	50	0	23.76	23.84	23.77	25.0	0.0
20	PI/2 BPSK	50	28	24.29	24.29	24.17	24.5	0.5
20	PI/2 BPSK	50	56	23.58	23.71	23.71		
20	PI/2 BPSK	100	0	23.73	23.83	23.66	25.0	0.0
20	QPSK	1	1	24.31	24.45	24.36		
20	QPSK	1	53	24.27	24.30	24.09		
20	QPSK	1	104	23.98	24.16	23.98	24.0	1.0
20	QPSK	50	0	23.36	23.36	23.18		
20	QPSK	50	28	24.27	24.31	24.30	24.0	1.0
20	QPSK	50	56	23.22	23.22	23.16		
20	QPSK	100	0	23.24	23.31	23.11	20.5	4.5
20	16QAM	1	1	23.47	23.63	23.43		
20	64QAM	1	1	22.13	22.28	22.21		
20	256QAM	1	1	19.89	20.11	20.00	Tune-up limit (dBm)	MPR (dB)
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5	25.0	0.0
15	QPSK	1	1	24.24	24.47	24.21		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.19	24.36	24.36	25.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.26	24.46	24.20		



n7 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	22.5	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.02	21.03	21.08		
50	PI/2 BPSK	1	135	20.87	21.02	20.96	22.5	0.0
50	PI/2 BPSK	1	268	21.03	20.98	20.92		
50	PI/2 BPSK	135	0	21.08	20.97	20.95		
50	PI/2 BPSK	135	68	20.94	21.12	21.05	22.5	0.0
50	PI/2 BPSK	135	135	21.02	21.06	20.87	22.5	0.0
50	PI/2 BPSK	270	0	20.97	21.00	20.94		
50	QPSK	1	1	21.04	21.19	21.00		
50	QPSK	1	135	21.01	21.00	21.08	22.5	0.0
50	QPSK	1	268	20.95	21.13	20.98		
50	QPSK	135	0	20.86	21.05	20.87		
50	QPSK	135	68	20.89	21.16	21.17	22.5	0.0
50	QPSK	135	135	20.91	21.08	20.95	22.5	0.0
50	QPSK	270	0	20.95	21.15	21.03		
50	16QAM	1	1	20.94	20.92	20.97		
50	64QAM	1	1	20.92	20.97	21.00	21.5	1.0
50	256QAM	1	1	19.10	19.17	19.07	19.5	3.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	20.91	21.03	20.85	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	20.98	21.12	20.92	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	20.94	21.09	20.95	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	21.00	21.05	20.83	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.97	21.15	20.88	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.93	21.02	20.98	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.96	21.11	20.94	22.5	0.0





n12 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				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.95	23.04	23.00	24.0	0.0
15	PI/2 BPSK	1	40	22.91	22.94	22.84		
15	PI/2 BPSK	1	77	22.92	23.07	22.95		
15	PI/2 BPSK	36	0	22.51	22.56	22.53	23.5	0.5
15	PI/2 BPSK	36	22	22.92	23.02	22.88	24.0	0.0
15	PI/2 BPSK	36	43	22.48	22.48	22.40	23.5	0.5
15	PI/2 BPSK	75	0	22.39	22.61	22.52		
15	QPSK	1	1	23.04	23.08	22.95	24.0	0.0
15	QPSK	1	40	23.05	23.06	22.95		
15	QPSK	1	77	22.81	22.98	22.97		
15	QPSK	36	0	21.99	22.14	21.94	23.0	1.0
15	QPSK	36	22	22.90	23.03	22.88	24.0	0.0
15	QPSK	36	43	21.91	22.09	22.04	23.0	1.0
15	QPSK	75	0	22.14	22.16	21.94		
15	16QAM	1	1	22.32	22.31	22.10	23.0	1.0
15	64QAM	1	1	20.77	20.79	20.68	21.5	2.5
	256QAM	1	1	18.67	18.80	18.81	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	23.07	22.95	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	22.87	22.90	22.94	24.0	0.0



n13 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					156400		24.0	0.0
Frequency (MHz)					782			
10	PI/2 BPSK	1	1		22.95		24.0	0.0
10	PI/2 BPSK	1	26		22.83			
10	PI/2 BPSK	1	50		22.96			
10	PI/2 BPSK	25	0		22.39		24.0	0.0
10	PI/2 BPSK	25	14		22.95		24.0	0.0
10	PI/2 BPSK	25	27		22.40		24.0	0.0
10	PI/2 BPSK	50	0		22.48			
10	QPSK	1	1		22.98		24.0	0.0
10	QPSK	1	26		22.93			
10	QPSK	1	50		22.89			
10	QPSK	25	0		21.95		24.0	0.0
10	QPSK	25	14		22.95		24.0	0.0
10	QPSK	25	27		21.92		24.0	0.0
10	QPSK	50	0		21.98			
10	16QAM	1	1		22.02		24.0	0.0
10	64QAM	1	1		20.31		24.0	0.0
10	256QAM	1	1		18.35		24.0	0.0
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	13	22.81	22.87	22.74	24.0	0.0



n14 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					158600		24.0	0.0
Frequency (MHz)					793			
10	PI/2 BPSK	1	1		22.89		24.0	0.0
10	PI/2 BPSK	1	26		22.90			
10	PI/2 BPSK	1	50		22.85			
10	PI/2 BPSK	25	0		22.46		23.5	0.5
10	PI/2 BPSK	25	14		22.90		24.0	0.0
10	PI/2 BPSK	25	27		22.41		23.5	0.5
10	PI/2 BPSK	50	0		22.46			
10	QPSK	1	1		22.93		24.0	0.0
10	QPSK	1	26		22.86			
10	QPSK	1	50		22.84			
10	QPSK	25	0		21.95		23.0	1.0
10	QPSK	25	14		22.91		24.0	0.0
10	QPSK	25	27		21.90		23.0	1.0
10	QPSK	50	0		21.93			
10	16QAM	1	1		22.00		23.0	1.0
10	64QAM	1	1		20.46		21.5	2.5
10	256QAM	1	1		18.39		19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	13	22.78	22.89	22.82	24.0	0.0



n25 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				372000	376500	381000	23.0	0.0
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	22.28	22.26	22.17	23.0	0.0
20	PI/2 BPSK	1	53	22.10	22.16	22.11		
20	PI/2 BPSK	1	104	22.29	22.19	22.15		
20	PI/2 BPSK	50	0	22.28	22.18	22.15	23.0	0.0
20	PI/2 BPSK	50	28	22.26	22.25	22.14	23.0	0.0
20	PI/2 BPSK	50	56	22.15	22.28	22.04	23.0	0.0
20	PI/2 BPSK	100	0	22.14	22.24	22.12		
20	QPSK	1	1	22.28	22.41	22.19	23.0	0.0
20	QPSK	1	53	22.17	22.32	22.29		
20	QPSK	1	104	22.22	22.28	22.23		
20	QPSK	50	0	22.11	22.21	22.14	23.0	0.0
20	QPSK	50	28	22.15	22.33	22.29	23.0	0.0
20	QPSK	50	56	22.14	22.25	22.19	23.0	0.0
20	QPSK	100	0	22.13	22.31	22.14		
20	16QAM	1	1	22.07	22.25	22.16	23.0	0.0
20	64QAM	1	1	21.58	21.79	21.69	22.5	0.5
20	256QAM	1	1	19.70	19.81	19.78	20.5	2.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	22.14	22.27	22.01	23.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	22.13	22.23	22.07	23.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	22.18	22.35	22.01	23.0	0.0



n66 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				345000	349000	353000	23.6	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	22.02	22.14	21.94		
30	PI/2 BPSK	1	80	21.93	21.97	21.97	23.6	0.0
30	PI/2 BPSK	1	158	22.02	21.92	22.02		
30	PI/2 BPSK	80	0	22.15	21.97	21.91		
30	PI/2 BPSK	80	40	22.06	22.12	21.89	23.6	0.0
30	PI/2 BPSK	80	80	21.99	22.04	21.90		
30	PI/2 BPSK	160	0	21.88	22.07	21.99		
30	QPSK	1	1	22.09	22.17	22.11	23.6	0.0
30	QPSK	1	80	21.90	22.14	22.15		
30	QPSK	1	158	22.05	22.11	22.04		
30	QPSK	80	0	21.83	21.97	21.93	23.6	0.0
30	QPSK	80	40	22.01	22.12	22.03		
30	QPSK	80	80	21.92	22.03	22.02		
30	QPSK	160	0	21.90	22.09	21.91	23.6	0.0
30	16QAM	1	1	21.94	22.05	21.89		
30	64QAM	1	1	21.91	21.95	21.87		
30	256QAM	1	1	19.99	20.04	19.90	20.5	3.1
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.03	22.14	22.03	23.6	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.98	22.08	22.09	23.6	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.05	22.02	22.03	23.6	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	22.13	22.08	23.6	0.0



n71 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				134600	136100	137600	24.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.16	23.01	24.0	0.0
20	PI/2 BPSK	1	53	22.97	23.06	23.00		
20	PI/2 BPSK	1	104	22.99	22.98	22.98		
20	PI/2 BPSK	50	0	22.61	22.66	22.65	23.5	0.5
20	PI/2 BPSK	50	28	22.93	23.09	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.44	22.53	22.50	23.5	0.5
20	PI/2 BPSK	100	0	22.54	22.64	22.55		
20	QPSK	1	1	23.05	23.19	23.16	24.0	0.0
20	QPSK	1	53	22.84	23.03	23.04		
20	QPSK	1	104	22.79	22.96	22.94		
20	QPSK	50	0	22.16	22.18	22.13	23.0	1.0
20	QPSK	50	28	23.14	23.17	23.16	24.0	0.0
20	QPSK	50	56	22.06	22.05	22.04	23.0	1.0
20	QPSK	100	0	21.99	22.14	22.03		
20	16QAM	1	1	22.22	22.36	22.29	23.0	1.0
20	64QAM	1	1	20.66	20.85	20.70	21.5	2.5
20	256QAM	1	1	18.34	18.49	18.48	19.5	4.5
Channel				134100	136100	138100	24.0	0.0
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	20.28	20.50	20.17	24.0	0.0
Channel				133600	136100	138600	24.0	0.0
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	20.19	20.40	20.14	24.0	0.0
Channel				133100	136100	139100	24.0	0.0
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	20.26	20.37	20.26	24.0	0.0



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n41 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				509202	518598	528000	16.9	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.44	15.53	15.49		
100	PI/2 BPSK	1	137	15.49	15.52	15.35	16.9	0.0
100	PI/2 BPSK	1	271	15.36	15.50	15.46		
100	PI/2 BPSK	135	0	15.39	15.50	15.44		
100	PI/2 BPSK	135	69	15.50	15.58	15.46	16.9	0.0
100	PI/2 BPSK	135	138	15.38	15.47	15.30		
100	PI/2 BPSK	270	0	15.47	15.53	15.40		
100	QPSK	1	1	15.68	15.71	15.63	16.9	0.0
100	QPSK	1	137	15.44	15.56	15.47		
100	QPSK	1	271	15.41	15.58	15.45		
100	QPSK	135	0	15.28	15.42	15.37	16.9	0.0
100	QPSK	135	69	15.54	15.64	15.47		
100	QPSK	135	138	15.41	15.55	15.50		
100	QPSK	270	0	15.47	15.57	15.46	16.9	0.0
100	16QAM	1	1	15.42	15.46	15.38		
100	64QAM	1	1	15.39	15.57	15.43		
100	256QAM	1	1	15.32	15.41	15.27	16.9	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.57	15.58	15.56	16.9	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.54	15.57	15.51	16.9	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.53	15.66	15.57	16.9	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.66	15.55	15.47	16.9	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.65	15.62	15.52	16.9	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.56	15.57	15.53	16.9	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.52	15.60	15.53	16.9	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.57	15.68	15.53	16.9	0.0



Par270 n77 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.43	16.58	16.50	17.4	0.0
100	PI/2 BPSK	1	137	16.32	16.46	16.35		
100	PI/2 BPSK	1	271	16.53	16.57	16.39		
100	PI/2 BPSK	135	0	16.32	16.48	16.42	17.4	0.0
100	PI/2 BPSK	135	69	16.42	16.52	16.41	17.4	0.0
100	PI/2 BPSK	135	138	16.49	16.52	16.48	17.4	0.0
100	PI/2 BPSK	270	0	16.48	16.55	16.50		
100	QPSK	1	1	16.57	16.68	16.61	17.4	0.0
100	QPSK	1	137	16.48	16.57	16.45		
100	QPSK	1	271	16.56	16.65	16.48		
100	QPSK	135	0	16.24	16.40	16.32	17.4	0.0
100	QPSK	135	69	16.53	16.66	16.55	17.4	0.0
100	QPSK	135	138	16.47	16.45	16.34	17.4	0.0
100	QPSK	270	0	16.36	16.50	16.42		
100	16QAM	1	1	16.30	16.41	16.30	17.4	0.0
100	64QAM	1	1	16.43	16.50	16.37	17.4	0.0
100	256QAM	1	1	16.28	16.38	16.31	17.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.55	16.56	16.55	17.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.53	16.51	16.51	17.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.49	16.62	16.55	17.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.51	16.64	16.49	17.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.41	16.52	16.51	17.4	0.0





Part27Q n77 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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.72		17.4	0.0
100	PI/2 BPSK	1	137		16.53			
100	PI/2 BPSK	1	271		16.74		17.4	0.0
100	PI/2 BPSK	135	0		16.65			
100	PI/2 BPSK	135	69		16.69		17.4	0.0
100	PI/2 BPSK	135	138		16.59			
100	PI/2 BPSK	270	0		16.67		17.4	0.0
100	QPSK	1	1		16.88			
100	QPSK	1	137		16.69		17.4	0.0
100	QPSK	1	271		16.74			
100	QPSK	135	0		16.54		17.4	0.0
100	QPSK	135	69		16.81			
100	QPSK	135	138		16.68		17.4	0.0
100	QPSK	270	0		16.75			
100	16QAM	1	1		16.54		17.4	0.0
100	64QAM	1	1		16.66		17.4	0.0
100	256QAM	1	1		16.44		17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.71	16.83	16.75	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.76	16.83	16.85	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.72	16.81	16.76	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.72	16.82	16.85	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.75	16.83	16.73	17.4	0.0



Part270 n78 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				650000	650000	650000	17.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.41			
100	PI/2 BPSK	1	137		16.29		17.4	0.0
100	PI/2 BPSK	1	271		16.38			
100	PI/2 BPSK	135	0		16.42			
100	PI/2 BPSK	135	69		16.29		17.4	0.0
100	PI/2 BPSK	135	138		16.40			
100	PI/2 BPSK	270	0		16.33			
100	QPSK	1	1		16.51		17.4	0.0
100	QPSK	1	137		16.36			
100	QPSK	1	271		16.40			
100	QPSK	135	0		16.31		17.4	0.0
100	QPSK	135	69		16.48			
100	QPSK	135	138		16.26			
100	QPSK	270	0		16.32		17.4	0.0
100	16QAM	1	1		16.20			
100	64QAM	1	1		16.27			
100	256QAM	1	1		16.05		17.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.34	16.37	16.36	17.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.47	16.34	16.38	17.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.36	16.41	16.44	17.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.41	16.46	16.42	17.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.34	16.48	16.39	17.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.42	16.42	16.45	17.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.38	16.49	16.33	17.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.41	16.40	16.39	17.4	0.0



Part27Q 78 DSI2								
BW [MHz]	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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.61			
100	PI/2 BPSK	1	137		16.36		17.4	0.0
100	PI/2 BPSK	1	271		16.70			
100	PI/2 BPSK	135	0		16.53			
100	PI/2 BPSK	135	69		16.55		17.4	0.0
100	PI/2 BPSK	135	138		16.56			
100	PI/2 BPSK	270	0		16.50			
100	QPSK	1	1		16.81		17.4	0.0
100	QPSK	1	137		16.59			
100	QPSK	1	271		16.64			
100	QPSK	135	0		16.49		17.4	0.0
100	QPSK	135	69		16.75			
100	QPSK	135	138		16.60			
100	QPSK	270	0		16.71		17.4	0.0
100	16QAM	1	1		16.45			
100	64QAM	1	1		16.63			
100	256QAM	1	1		16.31		17.4	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.34	16.47	16.46	17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.57	16.44	16.48	17.4	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.46	16.51	16.54	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.45	16.50	16.49	17.4	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.50	16.52	16.48	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.49	16.48	16.49	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.52	16.50	16.51	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.51	15.53	16.50	17.4	0.0

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n2 DSI2								
BW [MHz]	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	23.48	23.64	23.55	25.0	0.0
20	PI/2 BPSK	1	53	23.42	23.67	23.48		
20	PI/2 BPSK	1	104	23.45	23.57	23.49		
20	PI/2 BPSK	50	0	22.98	23.20	22.96	24.5	0.5
20	PI/2 BPSK	50	28	23.56	23.66	23.53	25.0	0.0
20	PI/2 BPSK	50	56	22.95	23.07	23.05	24.5	0.5
20	PI/2 BPSK	100	0	23.09	23.14	23.13		
20	QPSK	1	1	23.48	23.76	23.59	25.0	0.0
20	QPSK	1	53	23.53	23.53	23.42		
20	QPSK	1	104	23.40	23.56	23.42		
20	QPSK	50	0	22.40	22.60	22.56	25.0	0.0
20	QPSK	50	28	23.59	23.62	23.47	25.0	0.0
20	QPSK	50	56	22.34	22.55	22.59	25.0	0.0
20	QPSK	100	0	22.57	22.64	22.62		
20	16QAM	1	1	22.30	22.35	22.32	24.0	1.0
20	64QAM	1	1	21.23	21.42	21.25	22.5	2.5
20	256QAM	1	1	19.28	19.42	19.36	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.50	23.63	23.55	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.50	23.65	23.51	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.55	23.61	23.56	25.0	0.0



n5 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				166800	167300	167800	25.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.90	23.88	23.81		
20	PI/2 BPSK	1	53	23.87	23.85	23.79	24.5	0.5
20	PI/2 BPSK	1	104	23.84	23.82	23.76		
20	PI/2 BPSK	50	0	23.35	23.42	23.43		
20	PI/2 BPSK	50	28	23.81	23.86	23.77	24.5	0.0
20	PI/2 BPSK	50	56	23.30	23.35	23.34		
20	PI/2 BPSK	100	0	23.29	23.39	23.33		
20	QPSK	1	1	23.92	23.93	23.82	25.0	0.0
20	QPSK	1	53	23.81	23.83	23.81		
20	QPSK	1	104	23.77	23.85	23.88		
20	QPSK	50	0	22.79	22.95	22.77	24.0	1.0
20	QPSK	50	28	23.78	23.84	23.75		
20	QPSK	50	56	22.85	22.89	22.83		
20	QPSK	100	0	22.77	22.83	22.80	24.0	1.0
20	16QAM	1	1	22.85	22.90	22.80		
20	64QAM	1	1	21.35	21.33	21.28		
20	256QAM	1	1	19.31	19.38	19.35	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.78	23.84	23.79	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.80	23.86	23.80	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.82	23.90	23.77	25.0	0.0



n7 DSI 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.71	22.75	22.65	24.0	0.0
50	PI/2 BPSK	1	135	22.88	22.92	22.84		
50	PI/2 BPSK	1	268	22.55	22.75	22.62	24.5	-0.5
50	PI/2 BPSK	135	0	22.39	22.50	22.36		
50	PI/2 BPSK	135	68	22.69	22.86	22.77	24.0	0.0
50	PI/2 BPSK	135	135	22.32	22.36	22.34		
50	PI/2 BPSK	270	0	22.23	22.42	22.34	24.5	-0.5
50	PI/2 BPSK	1	1	22.82	23.01	22.94		
50	QPSK	1	135	22.75	22.94	22.90	24.0	0.0
50	QPSK	1	268	22.82	22.86	22.66		
50	QPSK	135	0	21.80	21.98	21.81	25.0	-1.0
50	QPSK	135	68	22.80	22.96	22.90		
50	QPSK	135	135	21.87	21.96	21.78	25.0	-1.0
50	QPSK	270	0	22.00	22.01	21.86		
50	16QAM	1	1	22.01	22.17	22.06	25.0	-1.0
50	64QAM	1	1	20.31	20.51	20.34		
50	256QAM	1	1	18.54	18.69	18.68	28.5	-4.5
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550	24.0	0.0
40	PI/2 BPSK	1	1	22.67	22.82	22.78		
Channel				503000	507000	511000	24.0	0.0
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	22.66	22.85	22.76	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	PI/2 BPSK	1	1	22.66	22.93	22.91		
Channel				502000	507000	512000	24.0	0.0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.68	23.00	22.74	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.66	22.98	22.83		
Channel				501000	507000	513000	24.0	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.77	22.87	22.85	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.78	22.81	22.96		



n25 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				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	23.89	24.10	24.04	25.0	0.0
20	PI/2 BPSK	1	53	23.98	24.19	23.99		
20	PI/2 BPSK	1	104	24.04	24.17	24.02		
20	PI/2 BPSK	50	0	23.42	23.68	23.43	25.5	-0.5
20	PI/2 BPSK	50	28	24.04	24.07	23.95	25.0	0.0
20	PI/2 BPSK	50	56	23.45	23.60	23.41	25.5	-0.5
20	PI/2 BPSK	100	0	23.43	23.60	23.37		
20	QPSK	1	1	24.14	24.27	24.19	25.0	0.0
20	QPSK	1	53	24.11	24.24	24.16		
20	QPSK	1	104	23.97	24.19	24.07		
20	QPSK	50	0	23.09	23.31	23.15	26.0	-1.0
20	QPSK	50	28	24.05	24.21	24.20	25.0	0.0
20	QPSK	50	56	23.13	23.28	23.11	26.0	-1.0
20	QPSK	100	0	23.08	23.20	23.15		
20	16QAM	1	1	23.32	23.51	23.48	26.0	-1.0
20	64QAM	1	1	21.67	21.79	21.76	27.5	-2.5
20	256QAM	1	1	19.94	19.92	19.83	29.5	-4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	24.01	24.20	24.10	25.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	24.06	24.13	24.06	25.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	24.11	24.15	24.08	25.0	0.0



n66 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				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.66	23.73	23.55	25.0	0.0
30	PI/2 BPSK	1	80	23.50	23.67	23.54		
30	PI/2 BPSK	1	158	23.56	23.61	23.45		
30	PI/2 BPSK	80	0	22.55	22.66	22.53	24.5	0.5
30	PI/2 BPSK	80	40	23.56	23.64	23.61	25.0	0.0
30	PI/2 BPSK	80	80	22.74	22.78	22.71	24.5	0.5
30	PI/2 BPSK	160	0	22.62	22.61	22.58		
30	QPSK	1	1	23.80	23.84	23.78	25.0	0.0
30	QPSK	1	80	23.67	23.81	23.79		
30	QPSK	1	158	23.65	23.76	23.75		
30	QPSK	80	0	22.52	22.70	22.70	24.0	1.0
30	QPSK	80	40	23.70	23.82	23.81	25.0	0.0
30	QPSK	80	80	22.64	22.82	22.74	24.0	1.0
30	QPSK	160	0	22.78	22.81	22.64		
30	16QAM	1	1	22.39	22.60	22.39	24.0	1.0
30	64QAM	1	1	21.11	21.31	21.30	22.5	2.5
30	256QAM	1	1	19.38	19.48	19.30	20.5	4.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.8	23.9	23.7	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.8	23.6	23.6	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.64	23.85	23.60	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.68	23.81	23.74	25.0	0.0





n38 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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.96	22.98	22.82	24.0	0.0
40	PI/2 BPSK	1	53	22.78	22.86	22.82		
40	PI/2 BPSK	1	104	22.71	22.93	22.93		
40	PI/2 BPSK	50	0	22.46	22.55	22.55	23.5	0.5
40	PI/2 BPSK	50	28	22.89	23.02	23.02	24.0	0.0
40	PI/2 BPSK	50	56	22.54	22.63	22.58	23.5	0.5
40	PI/2 BPSK	100	0	22.66	22.65	22.57		
40	QPSK	1	1	22.86	23.06	22.97	24.0	0.0
40	QPSK	1	53	22.79	22.95	22.77		
40	QPSK	1	104	22.88	23.01	22.99		
40	QPSK	50	0	22.04	22.07	21.85	23.0	1.0
40	QPSK	50	28	22.80	23.00	22.82	24.0	0.0
40	QPSK	50	56	21.93	22.11	22.11	23.0	1.0
40	QPSK	100	0	22.07	22.15	21.94		
40	16QAM	1	1	22.07	22.27	22.14	23.0	1.0
40	64QAM	1	1	20.47	20.65	20.53	21.5	2.5
40	256QAM	1	1	18.61	18.69	18.60	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.74	23.01	22.84	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.75	22.95	22.91	24.0	0.0



n41 DSII2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.07	23.07	22.94		
100	PI/2 BPSK	1	137	22.92	22.98	22.80	23.5	0.5
100	PI/2 BPSK	1	271	23.00	23.01	22.79		
100	PI/2 BPSK	135	0	22.48	22.55	22.53		
100	PI/2 BPSK	135	69	23.03	23.08	23.06	24.0	0.0
100	PI/2 BPSK	135	138	22.75	22.77	22.63		
100	PI/2 BPSK	270	0	22.79	22.86	22.77		
100	QPSK	1	1	23.07	23.11	22.99	24.0	0.0
100	QPSK	1	137	22.82	22.97	22.93		
100	QPSK	1	271	22.78	23.00	22.83		
100	QPSK	135	0	22.23	22.26	22.21	23.0	1.0
100	QPSK	135	69	22.98	23.04	22.97		
100	QPSK	135	138	21.94	22.12	22.13		
100	QPSK	270	0	22.03	22.18	22.03	23.0	1.0
100	16QAM	1	1	22.21	22.31	22.24		
100	64QAM	1	1	20.57	20.72	20.72		
100	256QAM	1	1	18.50	18.69	18.60	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.89	23.07	22.96	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.97	22.91	23.00	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.89	22.96	23.01	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.95	22.91	22.92	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.05	23.08	22.96	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	23.02	22.90	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.06	23.04	22.83	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.87	23.05	22.86	24.0	0.0



n41 HPUE DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.60	22.63	22.59		
100	PI/2 BPSK	1	137	22.55	22.56	22.53	24.5	0.0
100	PI/2 BPSK	1	271	22.76	22.59	22.56		
100	PI/2 BPSK	135	0	22.64	22.56	22.52		
100	PI/2 BPSK	135	69	22.61	22.61	22.63	24.5	0.0
100	PI/2 BPSK	135	138	22.57	22.67	22.54	24.5	0.0
100	PI/2 BPSK	270	0	22.62	22.74	22.57		
100	QPSK	1	1	22.66	22.81	22.74		
100	QPSK	1	137	22.53	22.71	22.62	24.5	0.0
100	QPSK	1	271	22.69	22.67	22.61		
100	QPSK	135	0	22.51	22.52	22.59		
100	QPSK	135	69	22.62	22.71	22.65	24.5	0.0
100	QPSK	135	138	22.55	22.68	22.57	24.5	0.0
100	QPSK	270	0	22.52	22.63	22.52		
100	16QAM	1	1	22.66	22.60	22.63		
100	64QAM	1	1	22.62	22.58	22.54	24.5	0.0
100	256QAM	1	1	21.78	21.88	21.91	22.5	1.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.57	22.75	22.63	24.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.51	22.66	22.64	24.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.53	22.79	22.62	24.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.60	22.73	22.61	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.50	22.76	22.69	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.59	22.78	22.69	24.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.64	22.65	22.61	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.63	22.69	22.65	24.5	0.0



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n48 DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				638000	641666	645332	23.0	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	22.01	22.12	22.06	23.0	0.0
40	PI/2 BPSK	1	53	21.78	21.87	21.74		
40	PI/2 BPSK	1	104	21.68	21.79	21.66		
40	PI/2 BPSK	50	0	21.89	22.01	21.88	23.0	0.0
40	PI/2 BPSK	50	28	21.85	21.92	21.87	23.0	0.0
40	PI/2 BPSK	50	56	21.88	21.94	21.87	23.0	0.0
40	PI/2 BPSK	100	0	21.92	21.98	21.84		
40	QPSK	1	1	22.13	22.26	22.22	23.0	0.0
40	QPSK	1	53	21.90	22.03	21.96		
40	QPSK	1	104	21.83	21.92	21.82		
40	QPSK	50	0	21.84	21.91	21.88	23.0	0.0
40	QPSK	50	28	21.78	21.93	21.78	23.0	0.0
40	QPSK	50	56	21.82	21.89	21.76	23.0	0.0
40	QPSK	100	0	21.91	21.95	21.86		
40	16QAM	1	1	22.04	22.16	22.07	23.0	0.0
40	64QAM	1	1	20.76	20.87	20.82	21.5	1.5
40	256QAM	1	1	18.70	18.85	18.76	19.5	3.5
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	22.03	22.17	22.11	23.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	21.98	22.18	22.11	23.0	0.0



Par270 n77 DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.18	22.24	22.22		
100	PI/2 BPSK	1	137	22.08	22.27	22.09	24.0	0.0
100	PI/2 BPSK	1	271	22.24	22.28	22.23		
100	PI/2 BPSK	135	0	22.19	22.19	22.12		
100	PI/2 BPSK	135	69	22.08	22.25	22.19	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.23	22.07	24.0	0.0
100	PI/2 BPSK	270	0	22.11	22.23	22.11		
100	QPSK	1	1	22.19	22.39	22.26		
100	QPSK	1	137	22.09	22.20	22.15	24.0	0.0
100	QPSK	1	271	22.03	22.19	22.15		
100	QPSK	135	0	22.04	22.14	22.09		
100	QPSK	135	69	22.08	22.21	22.10	24.0	0.0
100	QPSK	135	138	22.16	22.11	22.15	24.0	0.0
100	QPSK	270	0	22.06	22.19	22.11		
100	16QAM	1	1	22.13	22.20	22.16		
100	64QAM	1	1	21.26	21.37	21.34	23.0	1.0
100	256QAM	1	1	19.28	19.30	19.17	21.0	3.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.05	22.31	22.15	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.10	22.29	22.21	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.08	22.35	22.21	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.06	22.36	22.21	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.15	22.25	22.15	24.0	0.0



Part27Q n77 DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.33		24.0	0.0
100	PI/2 BPSK	1	137		22.32			
100	PI/2 BPSK	1	271		22.31		24.0	0.0
100	PI/2 BPSK	135	0		22.34			
100	PI/2 BPSK	135	69		22.37		24.0	0.0
100	PI/2 BPSK	135	138		22.33			
100	PI/2 BPSK	270	0		22.30		24.0	0.0
100	QPSK	1	1		22.38			
100	QPSK	1	137		22.31		24.0	0.0
100	QPSK	1	271		22.27			
100	QPSK	135	0		22.24		24.0	0.0
100	QPSK	135	69		22.33			
100	QPSK	135	138		22.23		24.0	0.0
100	QPSK	270	0		22.25			
100	16QAM	1	1		22.25		24.0	0.0
100	64QAM	1	1		21.47		23.0	1.0
100	256QAM	1	1		19.46		21.0	3.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.24	22.23	22.31	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.32	22.33	22.27	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.24	22.33	22.27	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.23	22.25	22.25	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.27	22.26	22.30	24.0	0.0



Par270 n77 HPUE DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.93	24.92	24.84	26.5	0.0
100	PI/2 BPSK	1	137	24.78	24.93	24.85		
100	PI/2 BPSK	1	271	25.01	24.97	24.87		
100	PI/2 BPSK	135	0	24.90	24.97	24.82	26.5	0.0
100	PI/2 BPSK	135	69	24.99	24.90	24.92	26.5	0.0
100	PI/2 BPSK	135	138	24.94	24.95	24.75	26.5	0.0
100	PI/2 BPSK	270	0	24.72	25.05	24.89		
100	QPSK	1	1	25.02	25.10	24.98	26.5	0.0
100	QPSK	1	137	24.90	25.03	24.90		
100	QPSK	1	271	24.88	25.08	24.96		
100	QPSK	135	0	24.81	24.87	24.76	26.5	0.0
100	QPSK	135	69	24.90	25.07	25.02	26.5	0.0
100	QPSK	135	138	24.92	24.87	24.86	26.5	0.0
100	QPSK	270	0	24.90	24.92	24.78		
100	16QAM	1	1	24.87	24.77	24.84	26.5	0.0
100	64QAM	1	1	24.48	24.61	24.57	26.0	0.5
100	256QAM	1	1	22.46	22.49	22.35	24.0	2.5
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.88	25.05	24.91	26.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	24.97	25.00	24.94	26.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.95	25.07	24.82	26.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	24.89	25.02	24.88	26.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	24.95	24.95	24.87	26.5	0.0



Part27Q n77 HPUE DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		26.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		24.70		26.5	0.0
100	PI/2 BPSK	1	137		24.83			
100	PI/2 BPSK	1	271		24.79			
100	PI/2 BPSK	135	0		24.72		26.5	0.0
100	PI/2 BPSK	135	69		24.60		26.5	0.0
100	PI/2 BPSK	135	138		24.76		26.5	0.0
100	PI/2 BPSK	270	0		24.77			
100	QPSK	1	1		24.90		26.5	0.0
100	QPSK	1	137		24.80			
100	QPSK	1	271		24.88			
100	QPSK	135	0		24.56		26.5	0.0
100	QPSK	135	69		24.88		26.5	0.0
100	QPSK	135	138		24.75		26.5	0.0
100	QPSK	270	0		24.83			
100	16QAM	1	1		24.93		26.5	0.0
100	64QAM	1	1		24.40		26.0	0.5
100	256QAM	1	1		22.27		24.0	2.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.80	24.86	24.81	26.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	24.86	24.74	24.75	26.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.79	24.76	24.85	26.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.82	24.78	24.76	26.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.80	24.83	24.75	26.5	0.0





Part27O n78 DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	24.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		22.16			
100	PI/2 BPSK	1	137		22.18		24.0	0.0
100	PI/2 BPSK	1	271		22.24			
100	PI/2 BPSK	135	0		22.15			
100	PI/2 BPSK	135	69		22.21		24.0	0.0
100	PI/2 BPSK	135	138		22.10			
100	PI/2 BPSK	270	0		22.12			
100	QPSK	1	1		22.27		24.0	0.0
100	QPSK	1	137		22.10			
100	QPSK	1	271		22.08			
100	QPSK	135	0		22.09		24.0	0.0
100	QPSK	135	69		22.23			
100	QPSK	135	138		22.08			
100	QPSK	270	0		22.16		24.0	0.0
100	16QAM	1	1		22.15			
100	64QAM	1	1		21.25			
100	256QAM	1	1		19.17		21.0	3.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.20	22.22	22.15	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.18	22.18	22.14	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.19	22.19	22.15	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.20	22.18	22.19	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.16	22.21	22.15	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.21	22.15	22.14	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.24	22.13	22.22	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.21	22.19	22.17	24.0	0.0



Part27Q 78 DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		24.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.26			
100	PI/2 BPSK	1	137		22.22			
100	PI/2 BPSK	1	271		22.34			
100	PI/2 BPSK	135	0		22.16		24.0	0.0
100	PI/2 BPSK	135	69		22.27		24.0	0.0
100	PI/2 BPSK	135	138		22.19		24.0	0.0
100	PI/2 BPSK	270	0		22.24			
100	QPSK	1	1		22.36		24.0	0.0
100	QPSK	1	137		22.20			
100	QPSK	1	271		22.19			
100	QPSK	135	0		22.19		24.0	0.0
100	QPSK	135	69		22.31		-2.5	26.5
100	QPSK	135	138		22.08		24.0	0.0
100	QPSK	270	0		22.22			
100	16QAM	1	1		22.20		24.0	0.0
100	64QAM	1	1		21.43		23.0	1.0
100	256QAM	1	1		19.32		21.0	3.0
Channel				633000	633334		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	-6000		
90	QPSK	1	1	22.24	22.31	22.25	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.26	22.27	22.26	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.22	22.28	22.31	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.31	22.27	22.28	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.27	22.22	22.30	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.25	22.23	22.25	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.32	22.30	22.29	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.33	22.25	22.32	24.0	0.0



Part27O n78 HPUE DSI0&2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	26.5	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		24.60			
100	PI/2 BPSK	1	137		24.62		26.5	0.0
100	PI/2 BPSK	1	271		24.58			
100	PI/2 BPSK	135	0		24.69			
100	PI/2 BPSK	135	69		24.61		26.5	0.0
100	PI/2 BPSK	135	138		24.53		26.5	0.0
100	PI/2 BPSK	270	0		24.60			
100	QPSK	1	1		24.76			
100	QPSK	1	137		24.69		26.5	0.0
100	QPSK	1	271		24.69			
100	QPSK	135	0		24.62			
100	QPSK	135	69		24.70		26.5	0.0
100	QPSK	135	138		24.64		26.5	0.0
100	QPSK	270	0		24.67			
100	16QAM	1	1		24.51			
100	64QAM	1	1		24.42		26.0	0.5
100	256QAM	1	1		22.28		24.0	2.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	24.59	24.72	24.65	26.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.71	24.59	24.68	26.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	24.59	24.62	24.64	26.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	24.61	24.63	24.65	26.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	24.59	24.60	24.59	26.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.66	24.73	24.71	26.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	24.65	24.58	24.71	26.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.64	24.66	24.67	26.5	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					633334		26.5	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		24.67		26.5	0.0
100	PI/2 BPSK	1	137		24.78			
100	PI/2 BPSK	1	271		24.70			
100	PI/2 BPSK	135	0		24.73		26.5	0.0
100	PI/2 BPSK	135	69		24.65		26.5	0.0
100	PI/2 BPSK	135	138		24.55		26.5	0.0
100	PI/2 BPSK	270	0		24.71			
100	QPSK	1	1		24.83		26.5	0.0
100	QPSK	1	137		24.80			
100	QPSK	1	271		24.72			
100	QPSK	135	0		24.64		26.5	0.0
100	QPSK	135	69		24.80		26.5	0.0
100	QPSK	135	138		24.78		26.5	0.0
100	QPSK	270	0		24.76			
100	16QAM	1	1		24.59		26.5	0.0
100	64QAM	1	1		24.52		26.0	0.5
100	256QAM	1	1		22.40		24.0	2.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	24.66	24.74	24.71	26.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.80	24.80	24.73	26.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	24.76	24.69	24.69	26.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	24.66	24.73	24.70	26.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	24.73	24.78	24.77	26.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.72	24.73	24.69	26.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.74	24.77	24.69	26.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	24.75	24.75	24.66	26.5	0.0



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n41 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				509202	518598	528000	20.1	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.17	19.18	19.16	20.1	0.0
100	PI/2 BPSK	1	137	19.17	19.22	19.12		
100	PI/2 BPSK	1	271	19.16	19.21	19.22	20.1	0.0
100	PI/2 BPSK	135	0	19.16	19.24	19.11		
100	PI/2 BPSK	135	69	19.15	19.21	19.15	20.1	0.0
100	PI/2 BPSK	135	138	19.23	19.24	19.14		
100	PI/2 BPSK	270	0	19.04	19.21	19.09	20.1	0.0
100	QPSK	1	1	19.32	19.35	19.26		
100	QPSK	1	137	19.16	19.21	19.20	20.1	0.0
100	QPSK	1	271	19.16	19.34	19.27		
100	QPSK	135	0	19.10	19.23	18.99	20.1	0.0
100	QPSK	135	69	19.20	19.30	19.29	20.1	0.0
100	QPSK	135	138	19.14	19.22	19.16	20.1	0.0
100	QPSK	270	0	19.07	19.27	19.15		
100	16QAM	1	1	19.20	19.17	19.19	20.1	0.0
100	64QAM	1	1	19.18	19.27	19.19	20.1	0.0
100	256QAM	1	1	19.08	19.13	19.12	20.1	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.24	19.26	19.13	20.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.17	19.30	19.11	20.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.18	19.19	19.22	20.1	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.21	19.33	19.11	20.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.24	19.22	19.14	20.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.16	19.32	19.18	20.1	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.27	19.27	19.16	20.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.30	19.30	19.16	20.1	0.0



Par270 n77 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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.84	17.90	17.76	18.9	0.0
100	PI/2 BPSK	1	137	17.77	17.89	17.74		
100	PI/2 BPSK	1	271	17.96	17.86	17.85		
100	PI/2 BPSK	135	0	17.89	17.77	17.69	18.9	0.0
100	PI/2 BPSK	135	69	17.78	17.92	17.82	18.9	0.0
100	PI/2 BPSK	135	138	17.75	17.89	17.63	18.9	0.0
100	PI/2 BPSK	270	0	17.61	17.80	17.69		
100	QPSK	1	1	17.93	17.99	17.82		
100	QPSK	1	137	17.87	17.86	17.93	18.9	0.0
100	QPSK	1	271	17.81	17.97	17.82		
100	QPSK	135	0	17.66	17.77	17.68		
100	QPSK	135	69	17.79	17.95	17.94	18.9	0.0
100	QPSK	135	138	17.81	17.83	17.72	18.9	0.0
100	QPSK	270	0	17.73	17.90	17.75		
100	16QAM	1	1	17.74	17.73	17.76		
100	64QAM	1	1	17.87	17.83	17.80	18.9	0.0
100	256QAM	1	1	17.63	17.66	17.68	18.9	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.76	17.87	17.68	18.9	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.85	17.94	17.66	18.9	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.80	17.90	17.69	18.9	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.80	17.81	17.65	18.9	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.82	17.85	17.78	18.9	0.0



Part27Q n77 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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.47		18.9	0.0
100	PI/2 BPSK	1	137		17.55			
100	PI/2 BPSK	1	271		17.39			
100	PI/2 BPSK	135	0		17.38		18.9	0.0
100	PI/2 BPSK	135	69		17.55		18.9	0.0
100	PI/2 BPSK	135	138		17.53		18.9	0.0
100	PI/2 BPSK	270	0		17.40			
100	QPSK	1	1		17.61		18.9	0.0
100	QPSK	1	137		17.40			
100	QPSK	1	271		17.50			
100	QPSK	135	0		17.33		18.9	0.0
100	QPSK	135	69		17.50		18.9	0.0
100	QPSK	135	138		17.45		18.9	0.0
100	QPSK	270	0		17.43			
100	16QAM	1	1		17.37		18.9	0.0
100	64QAM	1	1		17.50		18.9	0.0
100	256QAM	1	1		17.27		18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.52	17.47	17.44	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.49	17.56	17.49	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.52	17.52	17.47	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.46	17.44	17.49	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.43	17.49	17.50	18.9	0.0



Part270 n78 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				650000	650000	650000	18.9	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.98			
100	PI/2 BPSK	1	137		17.92		18.9	0.0
100	PI/2 BPSK	1	271		17.98			
100	PI/2 BPSK	135	0		17.80			
100	PI/2 BPSK	135	69		18.00		18.9	0.0
100	PI/2 BPSK	135	138		17.96			
100	PI/2 BPSK	270	0		17.97			
100	QPSK	1	1		18.11		18.9	0.0
100	QPSK	1	137		18.01			
100	QPSK	1	271		18.08			
100	QPSK	135	0		17.90		18.9	0.0
100	QPSK	135	69		18.06			
100	QPSK	135	138		17.94			
100	QPSK	270	0		18.01		18.9	0.0
100	16QAM	1	1		17.80			
100	64QAM	1	1		17.95			
100	256QAM	1	1		17.71		18.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.95	18.00	17.96	18.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.97	17.98	17.99	18.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.00	17.95	17.94	18.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.01	18.02	17.96	18.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.02	17.96	17.94	18.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.98	18.01	18.05	18.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.07	18.00	18.09	18.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.98	18.07	18.08	18.9	0.0





Part27Q 78 DSI2								
BW [MHz]	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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.89			
100	PI/2 BPSK	1	137		17.78		18.9	0.0
100	PI/2 BPSK	1	271		17.90			
100	PI/2 BPSK	135	0		17.76			
100	PI/2 BPSK	135	69		17.97		18.9	0.0
100	PI/2 BPSK	135	138		17.90			
100	PI/2 BPSK	270	0		17.85			
100	QPSK	1	1		18.03		18.9	0.0
100	QPSK	1	137		17.95			
100	QPSK	1	271		18.02			
100	QPSK	135	0		17.72		18.9	0.0
100	QPSK	135	69		17.91			
100	QPSK	135	138		17.88			
100	QPSK	270	0		17.93		18.9	0.0
100	16QAM	1	1		17.75			
100	64QAM	1	1		17.87			
100	256QAM	1	1		17.60		18.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.98	17.98	17.93	18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.97	17.86	17.92	18.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.01	17.93	18.00	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.90	17.94	17.97	18.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.92	17.90	17.94	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.86	17.92	17.88	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.00	17.89	17.91	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.99	17.87	17.96	18.9	0.0



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n41 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				509202	518598	528000	20.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.24	19.15	19.22	20.5	0.0
100	PI/2 BPSK	1	137	19.09	19.26	19.10		
100	PI/2 BPSK	1	271	19.29	19.22	19.18		
100	PI/2 BPSK	135	0	19.23	19.20	19.05	20.5	0.0
100	PI/2 BPSK	135	69	19.24	19.30	19.20	20.5	0.0
100	PI/2 BPSK	135	138	19.20	19.14	19.10	20.5	0.0
100	PI/2 BPSK	270	0	19.03	19.22	19.15		
100	QPSK	1	1	19.16	19.36	19.24	20.5	0.0
100	QPSK	1	137	19.20	19.18	19.31		
100	QPSK	1	271	19.29	19.35	19.14		
100	QPSK	135	0	19.11	19.14	19.13	20.5	0.0
100	QPSK	135	69	19.19	19.34	19.32	20.5	0.0
100	QPSK	135	138	19.22	19.29	19.17	20.5	0.0
100	QPSK	270	0	19.08	19.30	19.09		
100	16QAM	1	1	19.07	19.13	19.13	20.5	0.0
100	64QAM	1	1	19.21	19.23	19.14	20.5	0.0
100	256QAM	1	1	19.14	19.12	19.13	20.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.07	19.21	19.11	20.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.13	19.32	19.07	20.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.09	19.34	19.20	20.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.10	19.31	19.14	20.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.08	19.24	19.16	20.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.07	19.18	19.19	20.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.03	19.27	19.19	20.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.07	19.26	19.17	20.5	0.0



Par270 n77 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.77	15.80	15.79	17.2	0.0
100	PI/2 BPSK	1	137	15.72	15.82	15.80		
100	PI/2 BPSK	1	271	15.90	15.77	15.81		
100	PI/2 BPSK	135	0	15.81	15.76	15.80	17.2	0.0
100	PI/2 BPSK	135	69	15.87	15.88	15.71	17.2	0.0
100	PI/2 BPSK	135	138	15.79	15.80	15.64	17.2	0.0
100	PI/2 BPSK	270	0	15.62	15.85	15.71		
100	QPSK	1	1	15.91	15.99	15.86		
100	QPSK	1	137	15.80	15.78	15.78	17.2	0.0
100	QPSK	1	271	15.80	15.98	15.76		
100	QPSK	135	0	15.73	15.72	15.71		
100	QPSK	135	69	15.80	15.98	15.96	17.2	0.0
100	QPSK	135	138	15.77	15.77	15.87	17.2	0.0
100	QPSK	270	0	15.68	15.82	15.80		
100	16QAM	1	1	15.78	15.82	15.86		
100	64QAM	1	1	15.86	15.76	15.83	17.2	0.0
100	256QAM	1	1	15.75	15.73	15.75	17.2	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.82	15.89	15.75	17.2	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.86	15.81	15.69	17.2	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.83	15.88	15.81	17.2	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.83	15.83	15.84	17.2	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.81	15.86	15.75	17.2	0.0



Part27Q n77 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		17.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.02		17.2	0.0
100	PI/2 BPSK	1	137		16.02			
100	PI/2 BPSK	1	271		16.06		17.2	0.0
100	PI/2 BPSK	135	0		15.90			
100	PI/2 BPSK	135	69		15.99		17.2	0.0
100	PI/2 BPSK	135	138		16.06			
100	PI/2 BPSK	270	0		16.09		17.2	0.0
100	QPSK	1	1		16.13			
100	QPSK	1	137		16.10		17.2	0.0
100	QPSK	1	271		16.07			
100	QPSK	135	0		15.99		17.2	0.0
100	QPSK	135	69		16.11			
100	QPSK	135	138		16.06		17.2	0.0
100	QPSK	270	0		16.09			
100	16QAM	1	1		15.89		17.2	0.0
100	64QAM	1	1		16.00		17.2	0.0
100	256QAM	1	1		15.98		17.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.98	16.05	15.96	17.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.97	15.95	15.98	17.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.07	16.07	16.08	17.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.05	15.97	16.05	17.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.00	15.99	15.98	17.2	0.0



Part270 n78 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				650000	650000	650000	17.2	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		15.70			
100	PI/2 BPSK	1	137		15.67		17.2	0.0
100	PI/2 BPSK	1	271		15.71			
100	PI/2 BPSK	135	0		15.63			
100	PI/2 BPSK	135	69		15.65		17.2	0.0
100	PI/2 BPSK	135	138		15.79			
100	PI/2 BPSK	270	0		15.86			
100	QPSK	1	1		15.90		17.2	0.0
100	QPSK	1	137		15.79			
100	QPSK	1	271		15.71			
100	QPSK	135	0		15.63		17.2	0.0
100	QPSK	135	69		15.79			
100	QPSK	135	138		15.77			
100	QPSK	270	0		15.76		17.2	0.0
100	16QAM	1	1		15.59			
100	64QAM	1	1		15.68			
100	256QAM	1	1		15.74		17.2	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.72	15.81	15.86	17.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.83	15.78	15.79	17.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.74	15.73	15.77	17.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.84	15.86	15.72	17.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.76	15.76	15.81	17.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.87	15.86	15.86	17.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	15.88	15.83	15.79	17.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.84	15.77	15.88	17.2	0.0



Part27Q 78 DSI2								
BW [MHz]	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		17.2	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.06			
100	PI/2 BPSK	1	137		16.01		17.2	0.0
100	PI/2 BPSK	1	271		16.09			
100	PI/2 BPSK	135	0		16.01			
100	PI/2 BPSK	135	69		15.93		17.2	0.0
100	PI/2 BPSK	135	138		16.12			
100	PI/2 BPSK	270	0		16.12			
100	QPSK	1	1		16.16		17.2	0.0
100	QPSK	1	137		16.13			
100	QPSK	1	271		15.95			
100	QPSK	135	0		15.98		17.2	0.0
100	QPSK	135	69		16.09			
100	QPSK	135	138		16.06			
100	QPSK	270	0		16.07		17.2	0.0
100	16QAM	1	1		15.86			
100	64QAM	1	1		15.99			
100	256QAM	1	1		16.00		17.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.02	16.11	16.09	17.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.99	16.08	15.99	17.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.00	16.05	16.06	17.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.06	16.12	16.05	17.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.13	15.99	16.00	17.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.13	16.03	16.00	17.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.00	16.07	16.09	17.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.04	16.05	15.99	17.2	0.0

**Reduced Power Mode for DSI 3**

**Ant0**

n2 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	15.3	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	14.57	14.69	14.54		
20	PI/2 BPSK	1	53	14.57	14.65	14.46	15.3	0.0
20	PI/2 BPSK	1	104	14.56	14.63	14.43		
20	PI/2 BPSK	50	0	14.45	14.64	14.48		
20	PI/2 BPSK	50	28	14.58	14.69	14.55	15.3	0.0
20	PI/2 BPSK	50	56	14.56	14.65	14.46		
20	PI/2 BPSK	100	0	14.49	14.63	14.51		
20	QPSK	1	1	14.61	14.71	14.69	15.3	0.0
20	QPSK	1	53	14.64	14.63	14.59		
20	QPSK	1	104	14.53	14.58	14.51		
20	QPSK	50	0	14.53	14.60	14.53	15.3	0.0
20	QPSK	50	28	14.57	14.67	14.63		
20	QPSK	50	56	14.60	14.60	14.47		
20	QPSK	100	0	14.55	14.66	14.56	15.3	0.0
20	16QAM	1	1	14.61	14.66	14.53		
20	64QAM	1	1	14.51	14.64	14.57		
20	256QAM	1	1	14.57	14.58	14.51	15.3	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	14.56	14.61	14.66	15.3	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	14.54	14.61	14.66	15.3	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	14.57	14.60	14.56	15.3	0.0



n5 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				166800	167300	167800	19.5	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	18.29	18.38	18.29	19.5	0.0
20	PI/2 BPSK	1	53	18.25	18.35	18.32		
20	PI/2 BPSK	1	104	18.21	18.30	18.20		
20	PI/2 BPSK	50	0	18.27	18.25	18.22	19.5	0.0
20	PI/2 BPSK	50	28	18.29	18.38	18.31	19.5	0.0
20	PI/2 BPSK	50	56	18.11	18.21	18.18	19.5	0.0
20	PI/2 BPSK	100	0	18.19	18.26	18.22		
20	QPSK	1	1	18.36	18.41	18.27	19.5	0.0
20	QPSK	1	53	18.23	18.23	18.22		
20	QPSK	1	104	18.02	18.12	17.99		
20	QPSK	50	0	18.12	18.22	18.13	19.5	0.0
20	QPSK	50	28	18.19	18.32	18.13	19.5	0.0
20	QPSK	50	56	18.10	18.20	18.09	19.5	0.0
20	QPSK	100	0	18.20	18.25	18.22		
20	16QAM	1	1	18.11	18.23	18.25	19.5	0.0
20	64QAM	1	1	18.16	18.25	18.14	19.5	0.0
20	256QAM	1	1	18.11	18.18	18.10	19.5	0.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	18.24	18.27	18.22	19.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	18.23	18.31	18.15	19.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	18.22	18.34	18.16	19.5	0.0





n7 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				505000	507000	509000	13.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	12.01	12.03	11.96	13.0	0.0
50	PI/2 BPSK	1	135	11.81	12.01	11.89		
50	PI/2 BPSK	1	268	11.82	11.96	11.82		
50	PI/2 BPSK	135	0	11.87	11.98	11.88	13.0	0.0
50	PI/2 BPSK	135	68	11.93	12.00	11.92	13.0	0.0
50	PI/2 BPSK	135	135	11.80	11.81	11.79	13.0	0.0
50	PI/2 BPSK	270	0	11.80	11.90	11.75		
50	QPSK	1	1	12.03	12.06	11.98	13.0	0.0
50	QPSK	1	135	12.03	12.00	11.88		
50	QPSK	1	268	11.85	11.86	11.72		
50	QPSK	135	0	11.83	11.94	11.76	13.0	0.0
50	QPSK	135	68	11.89	11.96	11.87	13.0	0.0
50	QPSK	135	135	11.97	11.90	11.87	13.0	0.0
50	QPSK	270	0	11.86	11.92	11.90		
50	16QAM	1	1	11.79	11.99	11.88	13.0	0.0
50	64QAM	1	1	11.93	11.91	11.82	13.0	0.0
50	256QAM	1	1	11.74	11.90	11.72	13.0	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	11.99	12.02	11.90	13.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	11.94	11.98	11.93	13.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	11.93	11.96	11.92	13.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	11.99	11.95	11.87	13.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	11.93	11.92	11.90	13.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	11.91	12.00	11.85	13.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	11.97	11.92	11.83	13.0	0.0



n12 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				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	21.24	21.21	21.16	22.7	0.0
15	PI/2 BPSK	1	40	21.13	21.22	21.12		
15	PI/2 BPSK	1	77	21.36	21.14	21.20		
15	PI/2 BPSK	36	0	21.26	21.22	21.07	22.7	0.0
15	PI/2 BPSK	36	22	21.20	21.23	21.25	22.7	0.0
15	PI/2 BPSK	36	43	21.18	21.24	21.06	22.7	0.0
15	PI/2 BPSK	75	0	21.07	21.19	21.11		
15	QPSK	1	1	21.18	21.44	21.20	22.7	0.0
15	QPSK	1	40	21.19	21.24	21.22		
15	QPSK	1	77	21.15	21.40	21.20		
15	QPSK	36	0	21.16	21.15	21.05	22.7	0.0
15	QPSK	36	22	21.16	21.35	21.31	22.7	0.0
15	QPSK	36	43	21.13	21.26	21.05	22.7	0.0
15	QPSK	75	0	21.08	21.33	21.10		
15	16QAM	1	1	21.14	21.17	21.24	22.7	0.0
15	64QAM	1	1	20.77	20.79	20.68	21.7	1.0
	256QAM	1	1	18.67	18.80	18.81	19.7	3.0
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	21.08	21.41	21.13	22.7	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	21.05	21.37	21.11	22.7	0.0



n13 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					156400		21.8	0.0
Frequency (MHz)					782			
10	PI/2 BPSK	1	1		20.68		21.8	0.0
10	PI/2 BPSK	1	26		20.71			
10	PI/2 BPSK	1	50		20.77			
10	PI/2 BPSK	25	0		20.62		21.8	0.0
10	PI/2 BPSK	25	14		20.73		21.8	0.0
10	PI/2 BPSK	25	27		20.71		21.8	0.0
10	PI/2 BPSK	50	0		20.74			
10	QPSK	1	1		20.91		21.8	0.0
10	QPSK	1	26		20.83			
10	QPSK	1	50		20.84			
10	QPSK	25	0		20.76		21.8	0.0
10	QPSK	25	14		20.78		21.8	0.0
10	QPSK	25	27		20.69		21.8	0.0
10	QPSK	50	0		20.74			
10	16QAM	1	1		20.59		21.8	0.0
10	64QAM	1	1		20.31		21.3	0.5
10	256QAM	1	1		18.35		19.3	2.5
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	13	20.77	20.86	20.85	21.8	0.0



n14 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					158600		19.8	0.0
Frequency (MHz)					793			
10	PI/2 BPSK	1	1		18.87		19.8	0.0
10	PI/2 BPSK	1	26		18.88			
10	PI/2 BPSK	1	50		18.85			
10	PI/2 BPSK	25	0		18.85		19.8	0.0
10	PI/2 BPSK	25	14		18.85		19.8	0.0
10	PI/2 BPSK	25	27		18.89		19.8	0.0
10	PI/2 BPSK	50	0		18.91			
10	QPSK	1	1		18.98		19.8	0.0
10	QPSK	1	26		18.85			
10	QPSK	1	50		18.95			
10	QPSK	25	0		18.76		19.8	0.0
10	QPSK	25	14		18.90		19.8	0.0
10	QPSK	25	27		18.84		19.8	0.0
10	QPSK	50	0		18.88			
10	16QAM	1	1		18.72		19.8	0.0
10	64QAM	1	1		18.76		19.8	0.0
10	256QAM	1	1		18.35		18.8	1.0
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	13	18.85	18.90	18.88	19.8	0.0



n25 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				372000	376500	381000	15.3	0.0
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	14.66	14.68	14.55	15.3	0.0
20	PI/2 BPSK	1	53	14.68	14.67	14.64		
20	PI/2 BPSK	1	104	14.43	14.65	14.55		
20	PI/2 BPSK	50	0	14.64	14.75	14.67	15.3	0.0
20	PI/2 BPSK	50	28	14.66	14.73	14.63	15.3	0.0
20	PI/2 BPSK	50	56	14.49	14.58	14.55	15.3	0.0
20	PI/2 BPSK	100	0	14.62	14.70	14.59		
20	QPSK	1	1	14.69	14.78	14.61	15.3	0.0
20	QPSK	1	53	14.58	14.71	14.55		
20	QPSK	1	104	14.45	14.64	14.62		
20	QPSK	50	0	14.55	14.65	14.60	15.3	0.0
20	QPSK	50	28	14.74	14.75	14.69	15.3	0.0
20	QPSK	50	56	14.69	14.74	14.62	15.3	0.0
20	QPSK	100	0	14.59	14.68	14.63		
20	16QAM	1	1	14.64	14.67	14.57	15.3	0.0
20	64QAM	1	1	14.61	14.65	14.54	15.3	0.0
20	256QAM	1	1	14.53	14.59	14.52	15.3	0.0
Channel				371500	376500	381500	15.3	0.0
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	14.59	14.73	14.58	15.3	0.0
Channel				371000	376500	382000	15.3	0.0
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	14.58	14.69	14.53	15.3	0.0
Channel				370500	376500	382500	15.3	0.0
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	14.60	14.72	14.57	15.3	0.0



n66 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				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	15.76	15.93	15.80	16.9	0.0
30	PI/2 BPSK	1	80	15.72	15.80	15.70		
30	PI/2 BPSK	1	158	15.71	15.83	15.72		
30	PI/2 BPSK	80	0	15.77	15.84	15.71	16.9	0.0
30	PI/2 BPSK	80	40	15.71	15.88	15.69	16.9	0.0
30	PI/2 BPSK	80	80	15.61	15.70	15.59	16.9	0.0
30	PI/2 BPSK	160	0	15.85	15.83	15.83		
30	QPSK	1	1	15.93	15.96	15.91	16.9	0.0
30	QPSK	1	80	15.88	15.91	15.83		
30	QPSK	1	158	15.80	15.86	15.72		
30	QPSK	80	0	15.68	15.91	15.79	16.9	0.0
30	QPSK	80	40	15.86	15.92	15.79	16.9	0.0
30	QPSK	80	80	15.67	15.88	15.78	16.9	0.0
30	QPSK	160	0	15.79	15.93	15.74		
30	16QAM	1	1	15.77	15.89	15.77	16.9	0.0
30	64QAM	1	1	15.75	15.79	15.73	16.9	0.0
30	256QAM	1	1	15.71	15.83	15.72	16.9	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.80	15.89	15.87	16.9	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.87	15.88	15.82	16.9	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.86	15.86	15.85	16.9	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.82	15.86	15.82	16.9	0.0



n71 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				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.16	23.01	24.0	0.0
20	PI/2 BPSK	1	53	22.97	23.06	23.00		
20	PI/2 BPSK	1	104	22.99	22.98	22.98		
20	PI/2 BPSK	50	0	22.61	22.66	22.65	23.5	0.5
20	PI/2 BPSK	50	28	22.93	23.09	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.44	22.53	22.50	23.5	0.5
20	PI/2 BPSK	100	0	22.54	22.64	22.55		
20	QPSK	1	1	23.05	23.19	23.16	24.0	0.0
20	QPSK	1	53	22.84	23.03	23.04		
20	QPSK	1	104	22.79	22.96	22.94		
20	QPSK	50	0	22.16	22.18	22.13	23.0	1.0
20	QPSK	50	28	23.14	23.17	23.16	24.0	0.0
20	QPSK	50	56	22.06	22.05	22.04	23.0	1.0
20	QPSK	100	0	21.99	22.14	22.03		
20	16QAM	1	1	22.22	22.36	22.29	23.0	1.0
20	64QAM	1	1	20.66	20.85	20.70	21.5	2.5
20	256QAM	1	1	18.34	18.49	18.48	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.97	23.12	23.05	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.07	23.03	23.01	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.03	22.99	23.00	24.0	0.0



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n41 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				509202	518598	528000	16.9	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.44	15.53	15.49		
100	PI/2 BPSK	1	137	15.49	15.52	15.35	16.9	0.0
100	PI/2 BPSK	1	271	15.36	15.50	15.46		
100	PI/2 BPSK	135	0	15.39	15.50	15.44		
100	PI/2 BPSK	135	69	15.50	15.58	15.46	16.9	0.0
100	PI/2 BPSK	135	138	15.38	15.47	15.30		
100	PI/2 BPSK	270	0	15.47	15.53	15.40		
100	QPSK	1	1	15.68	15.71	15.63	16.9	0.0
100	QPSK	1	137	15.44	15.56	15.47		
100	QPSK	1	271	15.41	15.58	15.45		
100	QPSK	135	0	15.28	15.42	15.37	16.9	0.0
100	QPSK	135	69	15.54	15.64	15.47		
100	QPSK	135	138	15.41	15.55	15.50		
100	QPSK	270	0	15.47	15.57	15.46	16.9	0.0
100	16QAM	1	1	15.42	15.46	15.38		
100	64QAM	1	1	15.39	15.57	15.43		
100	256QAM	1	1	15.32	15.41	15.27	16.9	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.57	15.58	15.56	16.9	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.54	15.57	15.51	16.9	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.53	15.66	15.57	16.9	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.66	15.55	15.47	16.9	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.65	15.62	15.52	16.9	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.56	15.57	15.53	16.9	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.52	15.60	15.53	16.9	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.57	15.68	15.53	16.9	0.0





Par270 n77 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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.43	16.58	16.50	17.4	0.0
100	PI/2 BPSK	1	137	16.32	16.46	16.35		
100	PI/2 BPSK	1	271	16.53	16.57	16.39		
100	PI/2 BPSK	135	0	16.32	16.48	16.42	17.4	0.0
100	PI/2 BPSK	135	69	16.42	16.52	16.41	17.4	0.0
100	PI/2 BPSK	135	138	16.49	16.52	16.48	17.4	0.0
100	PI/2 BPSK	270	0	16.48	16.55	16.50		
100	QPSK	1	1	16.57	16.68	16.61	17.4	0.0
100	QPSK	1	137	16.48	16.57	16.45		
100	QPSK	1	271	16.56	16.65	16.48		
100	QPSK	135	0	16.24	16.40	16.32	17.4	0.0
100	QPSK	135	69	16.53	16.66	16.55	17.4	0.0
100	QPSK	135	138	16.47	16.45	16.34	17.4	0.0
100	QPSK	270	0	16.36	16.50	16.42		
100	16QAM	1	1	16.30	16.41	16.30	17.4	0.0
100	64QAM	1	1	16.43	16.50	16.37	17.4	0.0
100	256QAM	1	1	16.28	16.38	16.31	17.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.55	16.56	16.55	17.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.53	16.51	16.51	17.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.49	16.62	16.55	17.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.51	16.64	16.49	17.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.41	16.52	16.51	17.4	0.0



Part27Q n77 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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.72		17.4	0.0
100	PI/2 BPSK	1	137		16.53			
100	PI/2 BPSK	1	271		16.74			
100	PI/2 BPSK	135	0		16.65		17.4	0.0
100	PI/2 BPSK	135	69		16.69		17.4	0.0
100	PI/2 BPSK	135	138		16.59		17.4	0.0
100	PI/2 BPSK	270	0		16.67			
100	QPSK	1	1		16.88		17.4	0.0
100	QPSK	1	137		16.69			
100	QPSK	1	271		16.74			
100	QPSK	135	0		16.54		17.4	0.0
100	QPSK	135	69		16.81		17.4	0.0
100	QPSK	135	138		16.68		17.4	0.0
100	QPSK	270	0		16.75			
100	16QAM	1	1		16.54		17.4	0.0
100	64QAM	1	1		16.66		17.4	0.0
100	256QAM	1	1		16.44		17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.71	16.83	16.75	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.76	16.83	16.85	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.72	16.81	16.76	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.72	16.82	16.85	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.75	16.83	16.73	17.4	0.0



Part27O n78 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				650000	650000	650000	17.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.41			
100	PI/2 BPSK	1	137		16.29		17.4	0.0
100	PI/2 BPSK	1	271		16.38			
100	PI/2 BPSK	135	0		16.42			
100	PI/2 BPSK	135	69		16.29		17.4	0.0
100	PI/2 BPSK	135	138		16.40			
100	PI/2 BPSK	270	0		16.33			
100	QPSK	1	1		16.51		17.4	0.0
100	QPSK	1	137		16.36			
100	QPSK	1	271		16.40			
100	QPSK	135	0		16.31		17.4	0.0
100	QPSK	135	69		16.48			
100	QPSK	135	138		16.26			
100	QPSK	270	0		16.32		17.4	0.0
100	16QAM	1	1		16.20			
100	64QAM	1	1		16.27			
100	256QAM	1	1		16.05		17.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.34	16.37	16.36	17.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.47	16.34	16.38	17.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.36	16.41	16.44	17.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.41	16.46	16.42	17.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.34	16.48	16.39	17.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.42	16.42	16.45	17.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.38	16.49	16.33	17.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.41	16.40	16.39	17.4	0.0



Part27Q 78 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		17.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		16.61			
100	PI/2 BPSK	1	137		16.36		17.4	0.0
100	PI/2 BPSK	1	271		16.70			
100	PI/2 BPSK	135	0		16.53			
100	PI/2 BPSK	135	69		16.55		17.4	0.0
100	PI/2 BPSK	135	138		16.56			
100	PI/2 BPSK	270	0		16.50			
100	QPSK	1	1		16.81		17.4	0.0
100	QPSK	1	137		16.59			
100	QPSK	1	271		16.64			
100	QPSK	135	0		16.49		17.4	0.0
100	QPSK	135	69		16.75			
100	QPSK	135	138		16.60			
100	QPSK	270	0		16.71		17.4	0.0
100	16QAM	1	1		16.45			
100	64QAM	1	1		16.63			
100	256QAM	1	1		16.31		17.4	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.28	16.41	16.44	17.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.41	16.39	16.39	17.4	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.72	16.72	16.75	17.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.34	16.37	16.36	17.4	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.27	16.34	16.38	17.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.38	16.49	16.31	17.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	16.35	16.72	16.75	17.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.38	16.42	16.45	17.4	0.0



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n2 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	17.7	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	16.55	16.59	16.50		
20	PI/2 BPSK	1	53	16.45	16.57	16.47	17.7	0.0
20	PI/2 BPSK	1	104	16.42	16.52	16.43		
20	PI/2 BPSK	50	0	16.53	16.57	16.53		
20	PI/2 BPSK	50	28	16.46	16.61	16.54	17.7	0.0
20	PI/2 BPSK	50	56	16.41	16.54	16.45		
20	PI/2 BPSK	100	0	16.47	16.55	16.48		
20	QPSK	1	1	16.59	16.63	16.50	17.7	0.0
20	QPSK	1	53	16.51	16.57	16.44		
20	QPSK	1	104	16.49	16.55	16.52		
20	QPSK	50	0	16.48	16.52	16.41	17.7	0.0
20	QPSK	50	28	16.54	16.62	16.55		
20	QPSK	50	56	16.50	16.58	16.44		
20	QPSK	100	0	16.44	16.59	16.47	17.7	0.0
20	16QAM	1	1	16.43	16.48	16.39		
20	64QAM	1	1	16.31	16.46	16.37		
20	256QAM	1	1	16.26	16.35	16.32	17.7	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	40	16.53	16.50	16.46	17.7	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	26	16.44	16.56	16.46	17.7	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	13	16.55	16.52	16.38	17.7	0.0



n5 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				166800	167300	167800	24.5	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.90	23.88	23.81	24.5	0.0
20	PI/2 BPSK	1	53	23.87	23.85	23.79		
20	PI/2 BPSK	1	104	23.84	23.82	23.76		
20	PI/2 BPSK	50	0	23.35	23.42	23.43	24.5	0.0
20	PI/2 BPSK	50	28	23.81	23.86	23.77	24.5	0.0
20	PI/2 BPSK	50	56	23.30	23.35	23.34	24.5	0.0
20	PI/2 BPSK	100	0	23.29	23.39	23.33		
20	QPSK	1	1	23.92	23.93	23.82	24.5	0.0
20	QPSK	1	53	23.81	23.83	23.81		
20	QPSK	1	104	23.77	23.85	23.88		
20	QPSK	50	0	22.79	22.95	22.77	24.0	0.5
20	QPSK	50	28	23.78	23.84	23.75	24.5	0.0
20	QPSK	50	56	22.85	22.89	22.83	24.0	0.5
20	QPSK	100	0	22.77	22.83	22.80		
20	16QAM	1	1	22.85	22.90	22.80	24.0	0.5
20	64QAM	1	1	21.35	21.33	21.28	22.5	2.0
20	256QAM	1	1	19.31	19.38	19.35	20.5	4.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.78	23.84	23.79	24.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.80	23.86	23.80	24.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.82	23.90	23.77	24.5	0.0



n7 DS3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	16.3	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	15.16	15.20	15.08	16.3	0.0
50	PI/2 BPSK	1	135	15.12	15.19	15.10		
50	PI/2 BPSK	1	268	15.04	15.16	15.03		
50	PI/2 BPSK	135	0	14.90	15.04	15.01	16.3	0.0
50	PI/2 BPSK	135	68	15.01	15.17	15.09	16.3	0.0
50	PI/2 BPSK	135	135	15.03	15.08	14.97	16.3	0.0
50	PI/2 BPSK	270	0	15.00	15.10	15.07		
50	QPSK	1	1	15.13	15.33	15.17	16.3	0.0
50	QPSK	1	135	15.10	15.19	15.06		
50	QPSK	1	268	15.09	15.27	15.25		
50	QPSK	135	0	14.99	15.12	15.04	16.3	0.0
50	QPSK	135	68	15.11	15.25	15.07	16.3	0.0
50	QPSK	135	135	15.08	15.11	15.08	16.3	0.0
50	QPSK	270	0	15.03	15.15	15.05		
50	16QAM	1	1	14.90	15.01	14.90	16.3	0.0
50	64QAM	1	1	15.02	15.14	14.99	16.3	0.0
50	256QAM	1	1	14.91	14.96	14.82	16.3	0.0
Channel				504000	507000	510000	16.3	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	15.08	15.27	15.11	16.3	0.0
Channel				503000	507000	511000	16.3	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	14.98	15.22	15.02	16.3	0.0
Channel				502500	507000	511500	16.3	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	15.00	15.30	15.07	16.3	0.0
Channel				502000	507000	512000	16.3	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	15.02	15.26	15.13	16.3	0.0
Channel				501500	507000	512500	16.3	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.08	15.27	15.01	16.3	0.0
Channel				501000	507000	513000	16.3	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.03	15.29	15.04	16.3	0.0
Channel				500500	507000	513500	16.3	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.06	15.31	15.13	16.3	0.0



n25 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				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	16.55	16.61	16.50	17.7	0.0
20	PI/2 BPSK	1	53	16.51	16.62	16.49		
20	PI/2 BPSK	1	104	16.49	16.55	16.46		
20	PI/2 BPSK	50	0	16.58	16.63	16.54	17.7	0.0
20	PI/2 BPSK	50	28	16.44	16.59	16.54	17.7	0.0
20	PI/2 BPSK	50	56	16.42	16.55	16.44	17.7	0.0
20	PI/2 BPSK	100	0	16.54	16.58	16.48		
20	QPSK	1	1	16.57	16.71	16.61	17.7	0.0
20	QPSK	1	53	16.47	16.53	16.40		
20	QPSK	1	104	16.47	16.55	16.41		
20	QPSK	50	0	16.53	16.56	16.58	17.7	0.0
20	QPSK	50	28	16.50	16.62	16.46	17.7	0.0
20	QPSK	50	56	16.49	16.59	16.55	17.7	0.0
20	QPSK	100	0	16.52	16.61	16.53		
20	16QAM	1	1	16.38	16.52	16.43	17.7	0.0
20	64QAM	1	1	16.39	16.47	16.35	17.7	0.0
20	256QAM	1	1	16.33	16.44	16.40	17.7	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	16.42	16.63	16.50	17.7	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	16.46	16.62	16.48	17.7	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	16.51	16.61	16.47	17.7	0.0



n66 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				345000	349000	353000	17.3	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	16.42	16.53	16.46		
30	PI/2 BPSK	1	80	16.37	16.49	16.42	17.3	0.0
30	PI/2 BPSK	1	158	16.42	16.47	16.36		
30	PI/2 BPSK	80	0	16.43	16.50	16.47		
30	PI/2 BPSK	80	40	16.52	16.57	16.52	17.3	0.0
30	PI/2 BPSK	80	80	16.40	16.45	16.31		
30	PI/2 BPSK	160	0	16.38	16.51	16.40		
30	QPSK	1	1	16.51	16.59	16.45	17.3	0.0
30	QPSK	1	80	16.45	16.52	16.37		
30	QPSK	1	158	16.43	16.50	16.42		
30	QPSK	80	0	16.40	16.54	16.41	17.3	0.0
30	QPSK	80	40	16.47	16.57	16.49		
30	QPSK	80	80	16.48	16.51	16.40		
30	QPSK	160	0	16.44	16.55	16.49	17.3	0.0
30	16QAM	1	1	16.32	16.43	16.28		
30	64QAM	1	1	16.33	16.39	16.32		
30	256QAM	1	1	16.29	16.36	16.25	17.3	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.42	16.53	16.34	17.3	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.36	16.56	16.35	17.3	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.39	16.44	16.37	17.3	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.46	16.46	16.32	17.3	0.0



n38 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				518004	519000	519996	16.1	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.19	14.20	14.12	16.1	0.0
40	PI/2 BPSK	1	53	14.13	14.13	14.13		
40	PI/2 BPSK	1	104	14.18	14.18	14.17		
40	PI/2 BPSK	50	0	14.17	14.16	14.19	16.1	0.0
40	PI/2 BPSK	50	28	14.15	14.11	14.16	16.1	0.0
40	PI/2 BPSK	50	56	14.13	14.19	14.14	16.1	0.0
40	PI/2 BPSK	100	0	14.19	14.12	14.15		
40	QPSK	1	1	14.21	14.25	14.12	16.1	0.0
40	QPSK	1	53	14.24	14.18	14.18		
40	QPSK	1	104	14.18	14.13	14.18		
40	QPSK	50	0	14.14	14.20	14.17	16.1	0.0
40	QPSK	50	28	14.20	14.25	14.13	16.1	0.0
40	QPSK	50	56	14.11	14.16	14.15	16.1	0.0
40	QPSK	100	0	14.11	14.20	14.18		
40	16QAM	1	1	14.16	14.19	14.11	16.1	0.0
40	64QAM	1	1	14.24	14.12	14.15	16.1	0.0
40	256QAM	1	1	14.11	14.17	14.12	16.1	0.0
Channel				517002	519000	520998	16.1	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.13	14.19	14.16	16.1	0.0
Channel				516000	519000	522000	16.1	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	14.16	14.15	14.18	16.1	0.0



n41 PC2&3 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				509202	518598	528000	16.1	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.19	14.19	14.19	16.1	0.0
100	PI/2 BPSK	1	137	14.12	14.18	14.20		
100	PI/2 BPSK	1	271	14.14	14.15	14.12		
100	PI/2 BPSK	135	0	14.18	14.20	14.14	16.1	0.0
100	PI/2 BPSK	135	69	14.17	14.17	14.18	16.1	0.0
100	PI/2 BPSK	135	138	14.13	14.19	14.16	16.1	0.0
100	PI/2 BPSK	270	0	14.16	14.18	14.18		
100	QPSK	1	1	14.15	14.29	14.18	16.1	0.0
100	QPSK	1	137	14.17	14.23	14.11		
100	QPSK	1	271	14.15	14.20	14.16		
100	QPSK	135	0	14.14	14.19	14.14	16.1	0.0
100	QPSK	135	69	14.20	14.23	14.20	16.1	0.0
100	QPSK	135	138	14.15	14.18	14.19	16.1	0.0
100	QPSK	270	0	14.17	14.20	14.13		
100	16QAM	1	1	14.18	14.14	14.12	16.1	0.0
100	64QAM	1	1	14.15	14.25	14.13	16.1	0.0
100	256QAM	1	1	14.20	14.19	14.16	16.1	0.0
Channel				508200	518598	528996	16.1	0.0
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.17	14.21	14.15	16.1	0.0
Channel				507204	518598	529998	16.1	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.11	14.24	14.13	16.1	0.0
Channel				506202	518598	531000	16.1	0.0
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.16	14.19	14.14	16.1	0.0
Channel				505200	518598	531996	16.1	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.18	14.21	14.20	16.1	0.0
Channel				504204	518598	532998	16.1	0.0
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.11	14.16	14.20	16.1	0.0
Channel				503202	518598	534000	16.1	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.13	14.23	14.12	16.1	0.0
Channel				502200	518598	534996	16.1	0.0
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.16	14.18	14.15	16.1	0.0
Channel				501204	518598	535998	16.1	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.14	14.15	14.17	16.1	0.0



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n48 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				638000	641666	645332	16.5	0.0
Frequency (MHz)				3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	15.47	15.51	15.42	16.5	0.0
40	PI/2 BPSK	1	53	15.34	15.48	15.33		
40	PI/2 BPSK	1	104	15.35	15.41	15.36		
40	PI/2 BPSK	50	0	15.22	15.39	15.24	16.5	0.0
40	PI/2 BPSK	50	28	15.38	15.49	15.39	16.5	0.0
40	PI/2 BPSK	50	56	15.30	15.37	15.23	16.5	0.0
40	PI/2 BPSK	100	0	15.27	15.40	15.29		
40	QPSK	1	1	15.51	15.64	15.58	16.5	0.0
40	QPSK	1	53	15.42	15.49	15.39		
40	QPSK	1	104	15.48	15.52	15.34		
40	QPSK	50	0	15.22	15.38	15.32	16.5	0.0
40	QPSK	50	28	15.58	15.62	15.60	16.5	0.0
40	QPSK	50	56	15.31	15.41	15.31	16.5	0.0
40	QPSK	100	0	15.31	15.44	15.36		
40	16QAM	1	1	15.29	15.33	15.30	16.5	0.0
40	64QAM	1	1	15.33	15.49	15.45	15.0	1.5
40	256QAM	1	1	15.07	15.23	15.08	13.0	3.5
Channel				637334	641666	646000	16.5	0.0
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	15.43	15.55	15.44	16.5	0.0
Channel				637000	641666	646332	16.5	0.0
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	15.48	15.51	15.42	16.5	0.0



Par270 n77 DSI3 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.46	15.66	15.50	16.4	0.0
100	PI/2 BPSK	1	137	15.36	15.46	15.29		
100	PI/2 BPSK	1	271	15.44	15.54	15.45		
100	PI/2 BPSK	135	0	15.28	15.36	15.18	16.4	0.0
100	PI/2 BPSK	135	69	15.47	15.46	15.48	16.4	0.0
100	PI/2 BPSK	135	138	15.40	15.45	15.13	16.4	0.0
100	PI/2 BPSK	270	0	15.25	15.35	15.23		
100	QPSK	1	1	15.53	15.68	15.61		
100	QPSK	1	137	15.48	15.55	15.40	16.4	0.0
100	QPSK	1	271	15.46	15.58	15.33		
100	QPSK	135	0	15.24	15.39	15.40		
100	QPSK	135	69	15.55	15.60	15.50	16.4	0.0
100	QPSK	135	138	15.23	15.36	15.33	16.4	0.0
100	QPSK	270	0	15.37	15.52	15.40		
100	16QAM	1	1	15.17	15.23	15.21		
100	64QAM	1	1	15.33	15.51	15.48	16.4	0.0
100	256QAM	1	1	15.02	15.24	15.05	16.4	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.50	15.65	15.46	16.4	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.43	15.52	15.52	16.4	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.50	15.58	15.50	16.4	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.49	15.62	15.56	16.4	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.49	15.54	15.51	16.4	0.0



Part27Q n77 DS13 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		16.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		15.34		16.4	0.0
100	PI/2 BPSK	1	137		15.09			
100	PI/2 BPSK	1	271		15.27			
100	PI/2 BPSK	135	0		15.06		16.4	0.0
100	PI/2 BPSK	135	69		15.09		16.4	0.0
100	PI/2 BPSK	135	138		15.12		16.4	0.0
100	PI/2 BPSK	270	0		15.04			
100	QPSK	1	1		15.39			
100	QPSK	1	137		15.20		16.4	0.0
100	QPSK	1	271		15.24			
100	QPSK	135	0		15.06			
100	QPSK	135	69		15.36		16.4	0.0
100	QPSK	135	138		14.98		16.4	0.0
100	QPSK	270	0		15.17			
100	16QAM	1	1		14.88			
100	64QAM	1	1		15.16		16.4	0.0
100	256QAM	1	1		14.93		16.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.33	15.30	15.24	16.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.30	15.33	15.28	16.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.27	15.25	15.35	16.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.24	15.35	15.34	16.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.31	15.23	15.35	16.4	0.0



Part270 n78 DS13 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	16.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		15.23			
100	PI/2 BPSK	1	137		14.93		16.4	0.0
100	PI/2 BPSK	1	271		15.18			
100	PI/2 BPSK	135	0		14.98			
100	PI/2 BPSK	135	69		14.96		16.4	0.0
100	PI/2 BPSK	135	138		14.97			
100	PI/2 BPSK	270	0		14.86			
100	QPSK	1	1		15.29		16.4	0.0
100	QPSK	1	137		15.09			
100	QPSK	1	271		15.15			
100	QPSK	135	0		15.01		16.4	0.0
100	QPSK	135	69		15.27			
100	QPSK	135	138		14.87			
100	QPSK	270	0		15.00		16.4	0.0
100	16QAM	1	1		14.73			
100	64QAM	1	1		15.07			
100	256QAM	1	1		14.84		16.4	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.16	15.22	15.17	16.4	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.16	15.24	15.12	16.4	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.20	15.11	15.16	16.4	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.14	15.16	15.16	16.4	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.24	15.17	15.26	16.4	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.15	15.14	15.23	16.4	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	15.22	15.18	15.17	16.4	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.27	15.21	15.20	16.4	0.0



Part27Q 78 DSI3 PC2&3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		16.4	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		15.28			
100	PI/2 BPSK	1	137		14.94			
100	PI/2 BPSK	1	271		15.21			
100	PI/2 BPSK	135	0		14.91		16.4	0.0
100	PI/2 BPSK	135	69		15.04		16.4	0.0
100	PI/2 BPSK	135	138		15.00		16.4	0.0
100	PI/2 BPSK	270	0		14.93			
100	QPSK	1	1		15.34		16.4	0.0
100	QPSK	1	137		15.13			
100	QPSK	1	271		15.11			
100	QPSK	135	0		15.03		16.4	0.0
100	QPSK	135	69		15.30		16.4	0.0
100	QPSK	135	138		14.91		16.4	0.0
100	QPSK	270	0		15.08			
100	16QAM	1	1		14.82		16.4	0.0
100	64QAM	1	1		15.00		15.4	1.0
100	256QAM	1	1		14.78		13.4	3.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.23	15.18	15.19	16.4	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.28	15.22	15.31	16.4	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.20	15.16	15.29	16.4	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.22	15.23	15.28	16.4	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.23	15.16	15.26	16.4	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.30	15.28	15.17	16.4	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.21	15.22	15.24	16.4	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.26	15.17	15.25	16.4	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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.17	19.18	19.16	20.1	0.0
100	PI/2 BPSK	1	137	19.17	19.22	19.12		
100	PI/2 BPSK	1	271	19.16	19.21	19.22		
100	PI/2 BPSK	135	0	19.16	19.24	19.11	20.1	0.0
100	PI/2 BPSK	135	69	19.15	19.21	19.15	20.1	0.0
100	PI/2 BPSK	135	138	19.23	19.24	19.14	20.1	0.0
100	PI/2 BPSK	270	0	19.04	19.21	19.09		
100	QPSK	1	1	19.32	19.35	19.26	20.1	0.0
100	QPSK	1	137	19.16	19.21	19.20		
100	QPSK	1	271	19.16	19.34	19.27		
100	QPSK	135	0	19.10	19.23	18.99	20.1	0.0
100	QPSK	135	69	19.20	19.30	19.29	20.1	0.0
100	QPSK	135	138	19.14	19.22	19.16	20.1	0.0
100	QPSK	270	0	19.07	19.27	19.15		
100	16QAM	1	1	19.20	19.17	19.19	20.1	0.0
100	64QAM	1	1	19.18	19.27	19.19	20.1	0.0
100	256QAM	1	1	19.08	19.13	19.12	20.1	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.24	19.26	19.13	20.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.17	19.30	19.11	20.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.18	19.19	19.22	20.1	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.21	19.33	19.11	20.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.24	19.22	19.14	20.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.16	19.32	19.18	20.1	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.27	19.27	19.16	20.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.30	19.30	19.16	20.1	0.0



Par270 n77 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	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.84	17.90	17.76	18.9	0.0
100	PI/2 BPSK	1	137	17.77	17.89	17.74		
100	PI/2 BPSK	1	271	17.96	17.86	17.85		
100	PI/2 BPSK	135	0	17.89	17.77	17.69	18.9	0.0
100	PI/2 BPSK	135	69	17.78	17.92	17.82	18.9	0.0
100	PI/2 BPSK	135	138	17.75	17.89	17.63	18.9	0.0
100	PI/2 BPSK	270	0	17.61	17.80	17.69		
100	QPSK	1	1	17.93	17.99	17.82	18.9	0.0
100	QPSK	1	137	17.87	17.86	17.93		
100	QPSK	1	271	17.81	17.97	17.82		
100	QPSK	135	0	17.66	17.77	17.68	18.9	0.0
100	QPSK	135	69	17.79	17.95	17.94	18.9	0.0
100	QPSK	135	138	17.81	17.83	17.72	18.9	0.0
100	QPSK	270	0	17.73	17.90	17.75		
100	16QAM	1	1	17.74	17.73	17.76	18.9	0.0
100	64QAM	1	1	17.87	17.83	17.80	18.9	0.0
100	256QAM	1	1	17.63	17.66	17.68	18.9	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.76	17.87	17.68	18.9	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.85	17.94	17.66	18.9	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.80	17.90	17.69	18.9	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.80	17.81	17.65	18.9	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.82	17.85	17.78	18.9	0.0



Part27Q n77 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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.47		18.9	0.0
100	PI/2 BPSK	1	137		17.55			
100	PI/2 BPSK	1	271		17.39			
100	PI/2 BPSK	135	0		17.38		18.9	0.0
100	PI/2 BPSK	135	69		17.55		18.9	0.0
100	PI/2 BPSK	135	138		17.53		18.9	0.0
100	PI/2 BPSK	270	0		17.40			
100	QPSK	1	1		17.61		18.9	0.0
100	QPSK	1	137		17.40			
100	QPSK	1	271		17.50			
100	QPSK	135	0		17.33		18.9	0.0
100	QPSK	135	69		17.50		18.9	0.0
100	QPSK	135	138		17.45		18.9	0.0
100	QPSK	270	0		17.43			
100	16QAM	1	1		17.37		18.9	0.0
100	64QAM	1	1		17.50		18.9	0.0
100	256QAM	1	1		17.27		18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.52	17.47	17.44	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.49	17.56	17.49	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.52	17.52	17.47	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.46	17.44	17.49	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.43	17.49	17.50	18.9	0.0



Part27O n78 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	650000	650000	18.9	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.98			
100	PI/2 BPSK	1	137		17.92		18.9	0.0
100	PI/2 BPSK	1	271		17.98			
100	PI/2 BPSK	135	0		17.80			
100	PI/2 BPSK	135	69		18.00		18.9	0.0
100	PI/2 BPSK	135	138		17.96			
100	PI/2 BPSK	270	0		17.97			
100	QPSK	1	1		18.11		18.9	0.0
100	QPSK	1	137		18.01			
100	QPSK	1	271		18.08			
100	QPSK	135	0		17.90		18.9	0.0
100	QPSK	135	69		18.06			
100	QPSK	135	138		17.94			
100	QPSK	270	0		18.01		18.9	0.0
100	16QAM	1	1		17.80			
100	64QAM	1	1		17.95			
100	256QAM	1	1		17.71		18.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.95	18.00	17.96	18.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.97	17.98	17.99	18.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.00	17.95	17.94	18.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.01	18.02	17.96	18.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.02	17.96	17.94	18.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.98	18.01	18.05	18.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.07	18.00	18.09	18.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.98	18.07	18.08	18.9	0.0



Part27Q 78 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		18.9	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		17.89			
100	PI/2 BPSK	1	137		17.78		18.9	0.0
100	PI/2 BPSK	1	271		17.90			
100	PI/2 BPSK	135	0		17.76			
100	PI/2 BPSK	135	69		17.97		18.9	0.0
100	PI/2 BPSK	135	138		17.90			
100	PI/2 BPSK	270	0		17.85			
100	QPSK	1	1		18.03		18.9	0.0
100	QPSK	1	137		17.95			
100	QPSK	1	271		18.02			
100	QPSK	135	0		17.72		18.9	0.0
100	QPSK	135	69		17.91			
100	QPSK	135	138		17.88			
100	QPSK	270	0		17.93		18.9	0.0
100	16QAM	1	1		17.75			
100	64QAM	1	1		17.87			
100	256QAM	1	1		17.60		18.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.98	17.98	17.93	18.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.97	17.86	17.92	18.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.01	17.93	18.00	18.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.90	17.94	17.97	18.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.92	17.90	17.94	18.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.86	17.92	17.88	18.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.00	17.89	17.91	18.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.99	17.87	17.96	18.9	0.0

Ant5

n41 DSI3								
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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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.95	19.99	19.76	21.0	0.0
100	PI/2 BPSK	1	137	19.92	19.96	19.91		
100	PI/2 BPSK	1	271	19.81	19.93	19.66		
100	PI/2 BPSK	135	0	19.73	19.84	19.75	21.0	0.0
100	PI/2 BPSK	135	69	19.69	19.93	19.92	21.0	0.0
100	PI/2 BPSK	135	138	19.82	19.78	19.85	21.0	0.0
100	PI/2 BPSK	270	0	19.91	19.84	19.75		
100	QPSK	1	1	19.84	20.04	19.93	21.0	0.0
100	QPSK	1	137	19.75	19.74	19.73		
100	QPSK	1	271	19.74	19.81	19.60		
100	QPSK	135	0	19.58	19.75	19.73	21.0	0.0
100	QPSK	135	69	19.59	19.91	19.83	21.0	0.0
100	QPSK	135	138	19.68	19.72	19.60	21.0	0.0
100	QPSK	270	0	19.65	19.76	19.56		
100	16QAM	1	1	19.91	19.95	19.93	21.0	0.0
100	64QAM	1	1	19.96	19.95	19.82	21.0	0.0
100	256QAM	1	1	19.89	19.92	19.97	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.80	19.90	19.83	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.72	19.87	19.76	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.70	19.92	19.76	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.70	19.91	19.85	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.69	20.00	19.86	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.78	19.99	19.90	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.82	19.89	19.86	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.67	20.01	19.90	21.0	0.0

Par270 n77 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	656000	662000	19.8	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.92	18.89	18.80		
100	PI/2 BPSK	1	137	18.80	18.88	18.77	19.8	0.0
100	PI/2 BPSK	1	271	18.98	18.80	18.73		
100	PI/2 BPSK	135	0	18.80	18.70	18.73		
100	PI/2 BPSK	135	69	18.88	18.77	18.73	19.8	0.0
100	PI/2 BPSK	135	138	18.71	18.88	18.63	19.8	0.0
100	PI/2 BPSK	270	0	18.70	18.95	18.64		
100	QPSK	1	1	18.90	19.01	18.84		
100	QPSK	1	137	18.87	18.93	18.88	19.8	0.0
100	QPSK	1	271	18.81	18.93	18.85		
100	QPSK	135	0	18.73	18.75	18.72		
100	QPSK	135	69	18.83	18.90	18.88	19.8	0.0
100	QPSK	135	138	18.73	18.82	18.80	19.8	0.0
100	QPSK	270	0	18.68	18.84	18.73		
100	16QAM	1	1	18.72	18.70	18.67		
100	64QAM	1	1	18.77	18.75	18.69	19.8	0.0
100	256QAM	1	1	18.62	18.73	18.78	19.8	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.79	18.98	18.72	19.8	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.86	18.94	18.77	19.8	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.84	18.96	18.75	19.8	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.87	18.91	18.80	19.8	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.87	18.88	18.69	19.8	0.0



Part27Q n77 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		19.8	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.93		19.8	0.0
100	PI/2 BPSK	1	137		19.04			
100	PI/2 BPSK	1	271		18.85		19.8	0.0
100	PI/2 BPSK	135	0		18.73			
100	PI/2 BPSK	135	69		18.89		19.8	0.0
100	PI/2 BPSK	135	138		19.04			
100	PI/2 BPSK	270	0		19.03		19.8	0.0
100	QPSK	1	1		19.06			
100	QPSK	1	137		19.02		19.8	0.0
100	QPSK	1	271		19.03			
100	QPSK	135	0		18.83		19.8	0.0
100	QPSK	135	69		19.04			
100	QPSK	135	138		18.94		19.8	0.0
100	QPSK	270	0		18.93			
100	16QAM	1	1		18.76		19.8	0.0
100	64QAM	1	1		18.91			
100	256QAM	1	1		18.82		19.8	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.92	18.96	18.89	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.03	19.02	18.88	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.97	18.94	19.03	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.94	19.00	18.99	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.98	18.93	18.98	19.8	0.0





Part270 n78 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				650000	650000	650000	19.8	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		18.77			
100	PI/2 BPSK	1	137		18.93		19.8	0.0
100	PI/2 BPSK	1	271		18.79			
100	PI/2 BPSK	135	0		18.57			
100	PI/2 BPSK	135	69		18.71		19.8	0.0
100	PI/2 BPSK	135	138		18.97		19.8	0.0
100	PI/2 BPSK	270	0		18.90			
100	QPSK	1	1		18.99			
100	QPSK	1	137		18.85		19.8	0.0
100	QPSK	1	271		18.92			
100	QPSK	135	0		18.71			
100	QPSK	135	69		18.92		19.8	0.0
100	QPSK	135	138		18.76		19.8	0.0
100	QPSK	270	0		18.89			
100	16QAM	1	1		18.63			
100	64QAM	1	1		18.73		19.8	0.0
100	256QAM	1	1		18.69		19.8	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.95	18.93	18.81	19.8	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.88	18.81	18.87	19.8	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.87	18.96	18.82	19.8	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.82	18.88	18.94	19.8	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.92	18.94	18.88	19.8	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.89	18.91	18.88	19.8	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.92	18.89	18.85	19.8	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.94	18.83	18.90	19.8	0.0



Part27Q 78 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		19.8	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		18.89			
100	PI/2 BPSK	1	137		19.09			
100	PI/2 BPSK	1	271		18.96			
100	PI/2 BPSK	135	0		18.73		19.8	0.0
100	PI/2 BPSK	135	69		18.79		19.8	0.0
100	PI/2 BPSK	135	138		19.07		19.8	0.0
100	PI/2 BPSK	270	0		19.08			
100	QPSK	1	1		19.11		19.8	0.0
100	QPSK	1	137		18.96			
100	QPSK	1	271		18.96			
100	QPSK	135	0		18.82		19.8	0.0
100	QPSK	135	69		19.03		19.8	0.0
100	QPSK	135	138		18.89		19.8	0.0
100	QPSK	270	0		18.94			
100	16QAM	1	1		18.75		19.8	0.0
100	64QAM	1	1		18.76		19.8	0.0
100	256QAM	1	1		18.87		19.8	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.94	19.04	18.93	19.8	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.08	19.00	19.03	19.8	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.00	18.99	19.04	19.8	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.07	19.04	19.03	19.8	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.08	19.07	18.98	19.8	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.09	19.01	19.07	19.8	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.99	19.02	19.05	19.8	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.05	18.96	19.09	19.8	0.0



<WLAN Conducted Power>

General Note:

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. 18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
6. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
7. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. TX Beamforming mode is only supported in 2.4GHz WLAN 802.11ax and 5GHz WLAN 802.11n/ax.
8. Due to the single antenna RF power in WLAN SISO & MIMO (CDD) mode is larger than or very close to the single antenna RF power in Beamforming mode, so WLAN SISO & MIMO (CDD) mode SAR can represent beamforming mode SAR.

<2.4GHz WLAN Ant6>

2.4GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	2.4GHz WLAN	802.11b 1Mbps	1	2412	19.98	21.50	16.95	18.50	14.47	16.00
6			2437	20.55	22.00	17.52	19.00	15.01	16.50	
11			2462	18.37	20.00	17.36	19.00	14.89	16.50	
802.11g 6Mbps		1	2412	17.49	19.00	17.49	19.00	Not Required	16.50	95.30
		6	2437	17.78	19.50	17.38	19.00		16.50	
		10	2457	17.39	19.00	17.39	19.00		16.50	
		11	2462	13.17	14.50	13.17	14.50		14.50	
802.11n-HT20 MCS0		1	2412	17.45	19.00	Not Required	19.00	Not Required	16.50	94.98
		6	2437	17.96	19.50		19.00		16.50	
		9	2452	17.08	18.50		18.50		16.50	
		10	2457	17.13	18.50		18.50		16.50	
		11	2462	12.60	14.00		14.00		14.00	
802.11ac-VHT20 MCS0	1	2412	17.30	19.00	Not Required	19.00	Not Required	16.50	92.96	
	6	2437	18.01	19.50		19.00		16.50		
	9	2452	17.14	18.50		18.50		16.50		
	10	2457	16.99	18.50		18.50		16.50		
	11	2462	12.61	14.00		14.00		14.00		
802.11ax-HE20 MCS0	1	2412	17.63	19.00	Not Required	19.00	Not Required	16.50	97.47	
	6	2437	18.16	19.50		19.00		16.50		
	9	2452	17.80	19.50		19.00		16.50		
	10	2457	17.79	19.50		19.00		16.50		
	11	2462	12.52	14.00		14.00		14.00		



<2.4GHz WLAN Ant7>

Ant 7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	21.19	22.50	18.17	19.50	15.66	17.00	99.31
		6	2437	20.86	22.50	17.85	19.50	15.32	17.00	
		11	2462	18.56	20.00	17.56	19.00	15.05	16.50	
	802.11g 6Mbps	1	2412	18.47	20.00	18.06	19.50	Not Required	17.00	95.34
		6	2437	17.92	19.50	17.90	19.50		17.00	
		10	2457	17.74	19.00	17.88	19.00		17.00	
		11	2462	13.54	15.00	13.60	15.00		15.00	
	802.11n-HT20 MCS0	1	2412	18.30	20.00	Not Required	19.50	Not Required	17.00	95.34
		6	2437	18.47	20.00		19.50		17.00	
		9	2452	17.33	19.00		19.00		17.00	
		10	2457	17.27	19.00		19.00		17.00	
		11	2462	12.96	14.50		14.50		14.50	
	802.11ac-VHT20 MCS0	1	2412	18.41	20.00	Not Required	19.00	Not Required	17.00	92.96
		6	2437	18.45	20.00		19.00		17.00	
		9	2452	16.68	18.00		18.00		17.00	
10		2457	16.74	18.00	18.00		17.00			
11		2462	12.80	14.50	14.50		14.50			
802.11ax-HE20 MCS0	1	2412	18.69	20.00	Not Required	19.50	Not Required	17.00	97.47	
	6	2437	18.79	20.50		19.50		17.00		
	9	2452	18.72	20.50		19.50		17.00		
	10	2457	18.37	20.00		19.50		17.00		
	11	2462	13.10	14.50		14.50		14.50		



<2.4GHz WLAN Ant6+7>

Ant 6+7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	2.4GHz WLAN	802.11b 1Mbps	1	2412	23.64	25.00	22.61	22.00	18.12	19.50
6			2437	23.72	25.00	20.07	22.00	18.18	19.50	
11			2462	21.48	23.00	20.47	22.00	17.98	19.50	
802.11g 6Mbps		1	2412	21.02	22.50	20.79	22.00	Not Required	19.50	95.34
		6	2437	20.86	22.50	20.66	22.00		19.50	
		10	2457	20.58	22.00	20.65	22.00		19.50	
		11	2462	16.37	18.00	16.40	17.50		17.50	
802.11n-HT20 MCS0		1	2412	20.91	22.50	Not Required	22.00	Not Required	19.50	95.34
		6	2437	21.23	22.50		22.00		19.50	
		9	2452	20.22	21.50		22.00		19.50	
		10	2457	20.21	21.50		22.00		19.50	
		11	2462	15.79	17.50		17.50		17.50	
802.11ac-VHT20 MCS0	1	2412	20.90	22.50	Not Required	22.00	Not Required	19.50	92.96	
	6	2437	21.25	22.50		22.00		19.50		
	9	2452	19.93	21.50		22.00		19.50		
	10	2457	19.88	21.00		22.00		19.50		
	11	2462	15.72	17.00		17.00		17.00		
802.11ax-HE20 MCS0	1	2412	21.20	22.00	Not Required	22.00	Not Required	19.50	97.47	
	6	2437	21.50	23.00		22.00		19.50		
	9	2452	21.29	23.00		22.00		19.50		
	10	2457	21.10	22.50		22.00		19.50		
	11	2462	15.83	17.50		17.50		17.50		



<5GHz WLAN Ant6>

5.2GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	5.2GHz WLAN	802.11a 6Mbps	36	5180	19.69	21.00	Not Required	13.50	Not Required	11.00
40			5200	18.36	20.00	13.50		11.00		
44			5220	19.31	21.00	13.50		11.00		
48			5240	18.75	20.50	13.50		11.00		
802.11n-HT20 MCS0		36	5180	19.21	20.50	13.50		11.00		93.13
		40	5200	18.74	20.00	13.50		11.00		
		44	5220	18.88	20.50	13.50		11.00		
		48	5240	18.27	20.00	13.50		11.00		
802.11n-HT40 MCS0		38	5190	19.55	21.00	13.50		11.00		87.07
		46	5230	19.52	21.00	13.50		11.00		
802.11ac-VHT20 MCS0		36	5180	19.15	20.50	13.50		11.00		93.45
		40	5200	18.70	20.00	13.50		11.00		
	44	5220	18.82	20.50	13.50	11.00				
802.11ac-VHT40 MCS0	38	5190	19.62	21.00	13.50	11.00	87.17			
	46	5230	19.46	21.00	13.50	11.00				
802.11ac-VHT80 MCS0	42	5210	18.48	20.00	11.99	13.50	9.48	11.00	92.05	
802.11ax-HE20 MCS0	36	5180	19.28	20.50	Not Required	13.50	Not Required	11.00	97.54	
	40	5200	18.82	20.50		13.50		11.00		
	44	5220	18.90	20.50		13.50		11.00		
	48	5240	18.34	20.00		13.50		11.00		
802.11ax-HE40 MCS0	38	5190	19.69	21.00	13.50	11.00	94.57			
	46	5230	19.61	21.00	13.50	11.00				
802.11ax-HE80 MCS0	42	5210	18.64	20.00	13.50	11.00	91.45			



5.3GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	18.30	20.00	Not Required	13.50	Not Required	11.00	93.81
		56	5280	18.24	20.00		13.50		11.00	
		60	5300	18.26	20.00		13.50		11.00	
		64	5320	18.23	20.00		13.50		11.00	
	802.11n-HT20 MCS0	52	5260	19.01	20.50	Not Required	13.50	Not Required	11.00	93.13
		56	5280	18.56	20.00		13.50		11.00	
		60	5300	18.52	20.00		13.50		11.00	
	802.11n-HT40 MCS0	54	5270	19.56	21.00	12.09	13.50	Not Required	11.00	87.07
		62	5310	17.73	19.50	11.66	13.50		11.00	
	802.11ac-VHT20 MCS0	52	5260	18.95	20.50	Not Required	13.50	Not Required	11.00	93.45
		56	5280	18.54	20.00		13.50		11.00	
		60	5300	18.47	20.00		13.50		11.00	
	802.11ac-VHT40 MCS0	54	5270	19.47	21.00	Not Required	13.50	Not Required	11.00	87.17
		62	5310	17.77	19.50		13.50		11.00	
802.11ac-VHT80 MCS0	58	5290	17.42	19.00	12.16	13.50	9.64	11.00	92.05	
802.11ax-HE20 MCS0	52	5260	19.11	20.50	Not Required	13.50	Not Required	11.00	97.54	
	56	5280	18.74	20.00		13.50		11.00		
	60	5300	18.63	20.00		13.50		11.00		
	64	5320	19.16	20.50		13.50		11.00		
802.11ax-HE40 MCS0	54	5270	19.63	21.00	Not Required	13.50	Not Required	11.00	94.57	
	62	5310	17.79	19.50		13.50		11.00		
802.11ax-HE80 MCS0	58	5290	17.51	19.00	Not Required	13.50	Not Required	11.00	91.45	





5.5GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	19.03	20.50	Not Required	12.00	Not Required	9.50	93.81	
	116	5580	18.32	20.00		12.00		9.50		
	124	5620	18.54	20.00		12.00		9.50		
	132	5660	18.33	20.00		12.00		9.50		
	140	5700	18.37	20.00		12.00		9.50		
802.11n-HT20 MCS0	100	5500	19.89	21.50	Not Required	12.00	Not Required	9.50	93.13	
	116	5580	18.73	20.00		12.00		9.50		
	124	5620	19.04	20.50		12.00		9.50		
	132	5660	18.82	20.50		12.00		9.50		
	140	5700	18.61	20.00		12.00		9.50		
802.11n-HT40 MCS0	102	5510	18.06	19.50	10.66	12.00	Not Required	9.50	87.07	
	110	5550	19.69	21.00	10.69	12.00		9.50		
	126	5630	19.83	21.50	10.75	12.00		9.50		
	134	5670	19.63	21.00	10.65	12.00		9.50		
	142	5710	19.76	21.50	10.24	12.00		9.50		
802.11ac-VHT20 MCS0	100	5500	19.80	21.50	Not Required	12.00	Not Required	9.50	93.45	
	116	5580	18.68	20.00		12.00		9.50		
	124	5620	18.97	20.50		12.00		9.50		
	132	5660	18.76	20.50		12.00		9.50		
	140	5700	18.57	20.00		12.00		9.50		
802.11ac-VHT40 MCS0	102	5510	18.10	19.50	Not Required	12.00	Not Required	9.50	87.17	
	110	5550	19.65	21.00		12.00		9.50		
	126	5630	19.76	21.50		12.00		9.50		
	134	5670	19.58	21.00		12.00		9.50		
	142	5710	19.64	21.00		12.00		9.50		
802.11ac-VHT80 MCS0	106	5530	17.07	18.50	10.56	12.00	Not Required	8.03	92.05	
	122	5610	19.66	21.00	10.63	12.00		8.12		9.50
	138	5690	19.55	21.00	10.57	12.00		8.09		9.50
802.11ax-HE20 MCS0	100	5500	19.97	21.50	Not Required	12.00	Not Required	9.50	97.54	
	116	5580	18.83	20.50		12.00		9.50		
	124	5620	19.12	20.50		12.00		9.50		
	132	5660	18.88	20.50		12.00		9.50		
	140	5700	18.72	20.00		12.00		9.50		
802.11ax-HE40 MCS0	102	5510	18.15	19.50	Not Required	12.00	Not Required	9.50	94.57	
	110	5550	19.86	21.50		12.00		9.50		
	126	5630	19.91	21.50		12.00		9.50		
	134	5670	19.68	21.00		12.00		9.50		
802.11ax-HE80 MCS0	106	5530	17.11	19.00	Not Required	12.00	Not Required	9.50	91.45	
	122	5610	19.59	21.00		12.00		9.50		
	138	5690	19.62	21.00		12.00		9.50		



5.8GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	19.60	21.00	Not Required	12.50	Not Required	10.00	93.81
		157	5785	19.79	21.50		12.50		10.00	
		165	5825	20.83	22.50		12.50		10.00	
	802.11n-HT20 MCS0	149	5745	19.60	21.00	Not Required	12.50	Not Required	10.00	93.13
		157	5785	19.82	21.50		12.50		10.00	
		165	5825	20.90	22.50		12.50		10.00	
	802.11n-HT40 MCS0	151	5755	19.45	21.00	10.87	12.50	Not Required	10.00	87.07
		159	5795	19.43	21.00	10.84	12.50		10.00	
	802.11ac-VHT20 MCS0	149	5745	19.74	21.00	Not Required	12.50	Not Required	10.00	93.45
		157	5785	19.88	21.50		12.50		10.00	
165		5825	20.97	22.50	12.50		10.00			
802.11ac-VHT40 MCS0	151	5755	19.56	21.00	Not Required	12.50	Not Required	10.00	87.17	
	159	5795	19.52	21.00		12.50		10.00		
802.11ac-VHT80 MCS0	155	5775	19.54	21.00	11.06	12.50	8.57	10.00	92.05	
802.11ax-HE20 MCS0	149	5745	19.91	21.50	Not Required	12.50	Not Required	10.00	97.54	
	157	5785	20.02	21.50		12.50		10.00		
	165	5825	21.21	23.00		12.50		10.00		
802.11ax-HE40 MCS0	151	5755	19.70	21.00	Not Required	12.50	Not Required	10.00	94.57	
	159	5795	19.73	21.00		12.50		10.00		
802.11ax-HE80 MCS0	155	5775	19.62	21.00	Not Required	12.50	Not Required	10.00	91.45	



<5GHz WLAN Ant7>

Ant 7				Full Power Sensor on Sensor off	Standalone Standalone Simultaneous	Sensor on Simultaneous			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps	36	5180	20.55	21.50	Not Required	18.50	93.81	
		40	5200	19.26	21.00		18.50		
		44	5220	20.18	21.50		18.50		
		48	5240	19.33	21.00		18.50		
	802.11n-HT20 MCS0	36	5180	20.11	21.50		18.50	93.43	
		40	5200	19.45	21.00		18.50		
		44	5220	19.38	21.00		18.50		
	802.11n-HT40 MCS0	38	5190	19.78	21.00		18.50	86.79	
		46	5230	20.05	21.50		18.50		
	802.11ac-VHT20 MCS0	36	5180	20.02	20.50		Not Required	18.50	92.96
		40	5200	19.40	21.00			18.50	
		44	5220	19.34	21.00			18.50	
	802.11ac-VHT40 MCS0	38	5190	19.79	21.00			18.50	86.79
		46	5230	20.00	21.50			18.50	
	802.11ac-VHT80 MCS0	42	5210	18.72	20.00			17.23	18.50
802.11ax-HE20 MCS0	36	5180	20.12	21.50	Not Required			18.50	97.64
	40	5200	19.53	21.00		18.50			
	44	5220	19.51	21.00		18.50			
	48	5240	19.12	20.50		18.50			
802.11ax-HE40 MCS0	38	5190	19.78	21.00		18.50		95.45	
	46	5230	20.14	21.50		18.50			
802.11ax-HE80 MCS0	42	5210	18.91	20.50		18.50		91.44	



Ant 7				Full Power		Sensor on Simultaneous			
				Sensor on	Standalone				
				Sensor off	Standalone				
				Sensor off	simultaneous				
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
	802.11a 6Mbps	52	5260	18.74	20.00	Not Required	18.50	93.81	
		56	5280	18.77	20.50		18.50		
		60	5300	18.81	20.50		18.50		
		64	5320	18.75	20.50		18.50		
	802.11n-HT20 MCS0	52	5260	19.54	21.00		18.50	93.43	
		56	5280	19.32	21.00		18.50		
		60	5300	19.14	20.50		18.50		
		64	5320	19.66	21.00		18.50		
	802.11n-HT40 MCS0	54	5270	19.76	21.50		18.50	86.79	
		62	5310	17.84	19.50		18.50		
	802.11ac-VHT20 MCS0	52	5260	19.48	21.00		18.50	92.96	
		56	5280	19.27	21.00		18.50		
		60	5300	19.07	20.50		18.50		
		64	5320	19.60	21.00		18.50		
	802.11ac-VHT40 MCS0	54	5270	19.69	21.00		18.50	86.79	
		62	5310	17.87	19.50		18.50		
	802.11ac-VHT80 MCS0	58	5290	17.45	19.00		17.18	18.50	92.00
	802.11ax-HE20 MCS0	52	5260	19.66	21.00		Not Required	18.50	97.64
		56	5280	19.39	21.00			18.50	
60		5300	19.21	20.50	18.50				
64		5320	19.70	21.00	18.50				
802.11ax-HE40 MCS0	54	5270	19.81	21.50	18.50	95.45			
	62	5310	17.93	19.50	18.50				
802.11ax-HE80 MCS0	58	5290	17.65	19.00	18.50	18.50	91.44		



Ant 7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.92	20.50	Not Required	19.50	Not Required	17.00	93.81
		116	5580	18.63	20.00		19.50		17.00	
		124	5620	18.84	20.50		19.50		17.00	
		132	5660	19.00	20.50		19.50		17.00	
		140	5700	19.05	20.50		19.50		17.00	
		144	5720	18.92	20.50		19.50		17.00	
	802.11n-HT20 MCS0	100	5500	19.70	21.00	Not Required	19.50	Not Required	17.00	93.43
		116	5580	19.04	20.50		19.50		17.00	
		124	5620	19.25	21.00		19.50		17.00	
		132	5660	19.41	21.00		19.50		17.00	
		140	5700	19.33	21.00		19.50		17.00	
	802.11n-HT40 MCS0	102	5510	18.13	19.50	18.13	19.50	Not Required	17.00	86.79
		110	5550	19.78	21.50	17.65	19.50		17.00	
		126	5630	19.68	21.00	18.07	19.50		17.00	
		134	5670	19.99	21.50	17.89	19.50		17.00	
		142	5710	19.86	21.50	17.78	19.50		17.00	
	802.11ac-VHT20 MCS0	100	5500	19.63	21.00	Not Required	19.50	Not Required	17.00	92.96
		116	5580	18.98	20.50		19.50		17.00	
		124	5620	19.14	20.50		19.50		17.00	
		132	5660	19.34	21.00		19.50		17.00	
140		5700	19.28	21.00	19.50		17.00			
144		5720	19.12	20.50	19.50		17.00			
802.11ac-VHT40 MCS0	102	5510	18.21	20.00	Not Required	19.50	Not Required	17.00	86.79	
	110	5550	19.70	21.00		19.50		17.00		
	126	5630	19.63	21.00		19.50		17.00		
	134	5670	19.92	21.50		19.50		17.00		
	142	5710	19.80	21.50		19.50		17.00		
802.11ac-VHT80 MCS0	106	5530	16.99	18.50	16.99	18.50	15.53	17.00	92.00	
	122	5610	19.56	21.00	18.04	19.50	15.55	17.00		
	138	5690	19.68	21.00	18.17	19.50	15.62	17.00		
802.11ax-HE20 MCS0	100	5500	19.84	21.50	Not Required	19.50	Not Required	17.00	97.64	
	116	5580	19.07	20.50		19.50		17.00		
	124	5620	19.26	21.00		19.50		17.00		
	132	5660	19.46	21.00		19.50		17.00		
	140	5700	19.38	21.00		19.50		17.00		
	144	5720	19.25	21.00		19.50		17.00		
802.11ax-HE40 MCS0	102	5510	18.16	19.50	Not Required	19.50	Not Required	17.00	95.45	
	110	5550	19.85	21.50		19.50		17.00		
	126	5630	19.73	21.00		19.50		17.00		
	134	5670	20.02	21.50		19.50		17.00		
	142	5710	19.94	21.50		19.50		17.00		
802.11ax-HE80 MCS0	106	5530	17.08	18.50	Not Required	18.50	Not Required	17.00	91.44	
	122	5610	19.82	21.00		19.50		17.00		
	138	5690	19.77	21.00		19.50		17.00		



5.8GHz WLAN Ant 7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	20.11	21.50	Not Required	19.00	Not Required	16.50	93.81
		157	5785	19.97	21.50		19.00		16.50	
		165	5825	21.24	22.50		19.00		16.50	
	802.11n-HT20 MCS0	149	5745	19.98	21.50	Not Required	19.00	Not Required	16.50	93.43
		157	5785	19.87	21.50		19.00		16.50	
		165	5825	21.01	22.50		19.00		16.50	
	802.11n-HT40 MCS0	151	5755	19.57	21.00	17.47	19.00	Not Required	16.50	86.79
		159	5795	19.54	21.00	17.41	19.00		16.50	
	802.11ac-VHT20 MCS0	149	5745	20.00	21.50	Not Required	19.00	Not Required	16.50	92.96
		157	5785	19.92	21.50		19.00		16.50	
		165	5825	21.08	22.50		19.00		16.50	
	802.11ac-VHT40 MCS0	151	5755	19.63	21.00	Not Required	19.00	Not Required	16.50	86.79
159		5795	19.65	21.00	19.00		16.50			
802.11ac-VHT80 MCS0	155	5775	19.64	21.00	17.63	19.00	15.12	16.50	92.00	
802.11ax-HE20 MCS0	149	5745	20.16	21.50	Not Required	19.00	Not Required	16.50	97.64	
	157	5785	20.19	21.50		19.00		16.50		
	165	5825	21.38	23.00		19.00		16.50		
802.11ax-HE40 MCS0	151	5755	19.81	21.50	Not Required	19.00	Not Required	16.50	95.45	
	159	5795	19.85	21.50		19.00		16.50		
802.11ax-HE80 MCS0	155	5775	19.75	21.00	Not Required	19.00	Not Required	16.50	91.44	



<5GHz WLAN Ant6+7>

Ant 6+7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	23.15	24.00	Not Required	20.00	Not Required	19.00	93.81
		40	5200	21.84	23.50		20.00		19.00	
		44	5220	22.77	24.00		20.00		19.00	
		48	5240	22.06	23.50		20.00		19.00	
	802.11n-HT20 MCS0	36	5180	22.70	24.00		20.00		19.00	93.43
		40	5200	22.12	23.50		20.00		19.00	
		44	5220	22.15	23.50		20.00		19.00	
		48	5240	21.70	23.50		20.00		19.00	
	802.11n-HT40 MCS0	38	5190	22.68	24.00		20.00		19.00	87.07
46		5230	22.80	24.00	20.00		19.00			
802.11ac-VHT20 MCS0	36	5180	22.62	24.00	20.00	19.00	93.45			
	40	5200	22.08	23.50	20.00	19.00				
	44	5220	22.10	23.50	20.00	19.00				
	48	5240	21.66	23.00	20.00	19.00				
802.11ac-VHT40 MCS0	38	5190	22.71	24.00	20.00	19.00	87.17			
	46	5230	22.75	24.00	20.00	19.00				
802.11ac-VHT80 MCS0	42	5210	21.61	23.00	18.56	20.00	17.90	19.00	92.05	
802.11ax-HE20 MCS0	36	5180	22.73	24.00	Not Required	20.00	Not Required	19.00	97.64	
	40	5200	22.20	23.50		20.00		19.00		
	44	5220	22.23	23.50		20.00		19.00		
	48	5240	21.76	23.50		20.00		19.00		
802.11ax-HE40 MCS0	38	5190	22.75	24.00		20.00		19.00	95.45	
	46	5230	22.90	24.00		20.00		19.00		
802.11ax-HE80 MCS0	42	5210	21.79	23.00		20.00		19.00	19.00	91.45



Ant 6+7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
5.3GHz WLAN	802.11a 6Mbps	52	5260	21.53	23.00	Not Required	20.00	Not Required	19.00	93.81		
		56	5280	21.52	23.00		20.00		19.00			
		60	5300	21.55	23.00		20.00		19.00			
		64	5320	21.51	23.00		20.00		19.00			
	802.11n-HT20 MCS0	52	5260	22.30	23.50		20.00		19.00	93.43		
		56	5280	21.97	23.50		20.00		19.00			
		60	5300	21.86	23.50		20.00		19.00			
	802.11n-HT40 MCS0	54	5270	22.67	24.00		20.00		19.00	87.07		
		62	5310	20.80	22.00		20.00		19.00			
	802.11ac-VHT20 MCS0	52	5260	22.24	23.50		20.00		19.00	93.45		
		56	5280	21.93	23.50		20.00		19.00			
		60	5300	21.79	23.00		20.00		19.00			
	802.11ac-VHT40 MCS0	54	5270	22.59	24.00		20.00		19.00	87.17		
		62	5310	20.83	22.50		20.00		19.00			
	802.11ac-VHT80 MCS0	58	5290	20.45	22.00		18.58		20.00	17.88	19.00	92.05
	802.11ax-HE20 MCS0	52	5260	22.41	24.00		Not Required		20.00	Not Required	19.00	97.64
		56	5280	22.09	23.50				20.00		19.00	
		60	5300	21.94	23.50				20.00		19.00	
		64	5320	22.45	23.50				20.00		19.00	
	802.11ax-HE40 MCS0	54	5270	22.73	24.00		20.00		19.00	95.45		
62		5310	20.87	22.00	20.00	19.00						
802.11ax-HE80 MCS0	58	5290	20.59	22.00	20.00	19.00	91.45					





Ant 6+7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
5.5GHz WLAN	802.11a 6Mbps	100	5500	21.98	23.50	Not Required	20.00	Not Required	17.50	93.81		
		116	5580	21.49	23.00		20.00		17.50			
		124	5620	21.70	23.00		20.00		17.50			
		132	5660	21.69	23.00		20.00		17.50			
		140	5700	21.73	23.00		20.00		17.50			
		144	5720	21.69	23.00		20.00		17.50			
	802.11n-HT20 MCS0	100	5500	22.81	24.00		20.00		17.50	93.43		
		116	5580	21.90	23.50		20.00		17.50			
		124	5620	22.16	23.50		20.00		17.50			
		132	5660	22.14	23.50		20.00		17.50			
		140	5700	22.00	23.50		20.00		17.50			
		144	5720	22.08	23.50		20.00		17.50			
	802.11n-HT40 MCS0	102	5510	21.11	22.50		Not Required		20.00	Not Required	17.50	87.07
		110	5550	22.75	24.00				20.00		17.50	
		126	5630	22.77	24.00				20.00		17.50	
		134	5670	22.83	24.50				20.00		17.50	
		142	5710	22.82	24.00				20.00		17.50	
	802.11ac-VHT20 MCS0	100	5500	22.73	24.00		Not Required		20.00	Not Required	17.50	93.45
		116	5580	21.85	23.50				20.00		17.50	
		124	5620	22.07	23.50				20.00		17.50	
		132	5660	22.07	23.50				20.00		17.50	
		140	5700	21.95	23.50				20.00		17.50	
		144	5720	21.99	23.50				20.00		17.50	
	802.11ac-VHT40 MCS0	102	5510	21.16	22.50		Not Required		20.00	Not Required	17.50	87.17
		110	5550	22.68	24.00				20.00		17.50	
		126	5630	22.70	24.00				20.00		17.50	
		134	5670	22.76	24.00				20.00		17.50	
		142	5710	22.73	24.00				20.00		17.50	
	802.11ac-VHT80 MCS0	106	5530	20.04	21.50		17.88		19.00	16.24	17.50	92.05
		122	5610	22.62	24.00		18.76		20.00	16.27	17.50	
		138	5690	22.63	24.00		18.87		20.00	16.33	17.50	
	802.11ax-HE20 MCS0	100	5500	22.92	24.50		Not Required		20.00	Not Required	17.50	97.64
		116	5580	21.97	23.50				20.00		17.50	
		124	5620	22.20	23.50				20.00		17.50	
		132	5660	22.19	23.50				20.00		17.50	
		140	5700	22.08	23.50				20.00		17.50	
144		5720	22.10	23.50	20.00	17.50						
802.11ax-HE40 MCS0	102	5510	21.17	22.50	Not Required	20.00	Not Required	17.50	95.45			
	110	5550	22.87	24.00		20.00		17.50				
	126	5630	22.83	24.00		20.00		17.50				
	134	5670	22.87	24.00		20.00		17.50				
	142	5710	22.89	24.50		20.00		17.50				
802.11ax-HE80 MCS0	106	5530	20.10	21.50	Not Required	20.00	Not Required	17.50	91.45			
	122	5610	22.71	24.00		20.00		17.50				
	138	5690	22.70	24.00		20.00		17.50				



Ant 6+7				Full Power Sensor off Standalone Sensor off simultaneous		Sensor on Standalone		Sensor on simultaneous		Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit				
5.8GHz WLAN	802.11a 6Mbps	149	5745	22.87	23.50	Not Required	19.50	Not Required	17.00	93.81		
		157	5785	22.89	23.50		19.50		17.00			
		165	5825	24.05	25.50		19.50		17.00			
	802.11n-HT20 MCS0	149	5745	22.81	24.00		19.50		17.00	93.43		
		157	5785	22.86	24.50		19.50		17.00			
		165	5825	23.97	25.50		19.50		17.00			
	802.11n-HT40 MCS0	151	5755	22.52	24.00		19.50		17.00	87.07		
		159	5795	22.50	24.00		19.50		17.00			
	802.11ac-VHT20 MCS0	149	5745	22.89	24.50		19.50		17.00	93.45		
		157	5785	22.91	24.50		19.50		17.00			
		165	5825	24.04	25.50		19.50		17.00			
	802.11ac-VHT40 MCS0	151	5755	22.60	24.00		19.50		17.00	87.17		
		159	5795	22.59	24.00		19.50		17.00			
	802.11ac-VHT80 MCS0	155	5775	22.60	24.00		18.49		19.50	15.99	17.00	92.05
	802.11ax-HE20 MCS0	149	5745	23.05	24.50		Not Required		19.50	Not Required	17.00	97.64
		157	5785	23.12	24.50				19.50		17.00	
165		5825	24.31	24.50	19.50	17.00						
802.11ax-HE40 MCS0	151	5755	22.77	24.00	19.50	17.00	95.45					
	159	5795	22.80	24.00	19.50	17.00						
802.11ax-HE80 MCS0	155	5775	22.69	24.00	19.50	17.00	91.45					

<Beamforming mode>

<2.4GHz WLAN Ant6>

2.4GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11ax-HE20 MCS0	1	2412	17.55	19.00	17.02	18.50	14.47	16.00	44.70
		6	2437	17.92	19.50	17.41	19.00	14.65	16.00	
		10	2457	17.80	19.00	17.33	18.50	14.55	16.00	
		11	2462	12.08	13.50	12.08	13.50	12.08	13.50	

<2.4GHz WLAN Ant7>

Ant 7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11ax-HE20 MCS0	1	2412	18.72	20.00	18.19	19.50	15.65	17.00	44.20
		6	2437	18.73	20.00	18.23	19.50	15.67	17.00	
		10	2457	18.69	20.00	18.16	19.50	15.62	17.00	
		11	2462	13.04	14.50	13.04	14.50	13.04	14.50	

<2.4GHz WLAN Ant6+7>

Ant 6+7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11ax-HE20 MCS0	1	2412	21.18	22.50	20.65	22.00	18.11	19.50	44.70
		6	2437	21.35	23.00	20.85	22.00	18.20	19.50	
		10	2457	21.28	23.00	20.78	22.00	18.13	19.50	
		11	2462	15.60	17.00	15.60	17.00	15.60	17.00	



<5GHz WLAN Ant6>

5.2GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	36	5180	17.18	18.50	Not Required	13.00	10.50	40.80	
		40	5200	17.20	18.50					
		44	5220	16.97	18.50					
		48	5240	16.89	18.50					
	802.11n-HT40 MCS0	38	5190	19.17	20.50		13.00		10.50	35.20
		46	5230	19.33	21.00		13.00		10.50	
	802.11ax-HE20 MCS0	36	5180	17.44	19.00		13.00		10.50	48.80
		40	5200	17.29	19.00		13.00		10.50	
		44	5220	17.15	18.50		13.00		10.50	
802.11ax-HE40 MCS0	38	5190	19.38	21.00	13.00		10.50		35.90	
	46	5230	19.61	21.00	13.00	10.50				
802.11ax-HE80 MCS0	42	5210	18.27	20.00	11.62	13.00	9.08	10.50	20.70	

5.3GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	52	5260	17.69	19.00	Not Required	13.00	10.50	40.80	
		56	5280	17.67	19.00					
		60	5300	16.48	18.00					
		64	5320	16.55	18.00					
	802.11n-HT40 MCS0	54	5270	19.19	20.50		13.00		10.50	35.20
		62	5310	16.87	18.50		13.00		10.50	
	802.11ax-HE20 MCS0	52	5260	18.22	19.50		13.00		10.50	48.80
		56	5280	18.08	19.50		13.00		10.50	
		60	5300	16.67	18.00		13.00		10.50	
802.11ax-HE40 MCS0	54	5270	19.42	21.00	13.00		10.50		35.90	
	62	5310	17.36	19.00	13.00	10.50				
802.11ax-HE80 MCS0	58	5290	17.02	18.50	11.60	13.00	9.05	10.50	20.70	



5.5GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0		100	5500	16.82	18.50	Not Required	11.50	Not Required	9.00
116			5580	16.51	18.00	11.50		9.00		
124			5620	16.66	18.00	11.50		9.00		
132			5660	16.54	18.00	11.50		9.00		
140			5700	16.44	18.00	11.50		9.00		
144			5720	16.54	18.00	11.50		9.00		
802.11n-HT40 MCS0		102	5510	16.75	18.00	Not Required	11.50	Not Required	9.00	35.20
		110	5550	19.28	21.00		11.50		9.00	
		126	5630	19.19	20.50		11.50		9.00	
		134	5670	19.11	20.50		11.50		9.00	
802.11ax-HE20 MCS0		100	5500	17.00	18.50	Not Required	11.50	Not Required	9.00	48.80
		116	5580	16.78	18.00		11.50		9.00	
		124	5620	16.87	18.50		11.50		9.00	
		132	5660	16.78	18.00		11.50		9.00	
		140	5700	16.63	18.00		11.50		9.00	
		144	5720	16.72	18.00		11.50		9.00	
802.11ax-HE40 MCS0		102	5510	17.71	19.00	Not Required	11.50	Not Required	9.00	35.90
		110	5550	19.51	21.00		11.50		9.00	
		126	5630	19.45	21.00		11.50		9.00	
		134	5670	19.49	21.00		11.50		9.00	
802.11ax-HE80 MCS0		106	5530	16.72	18.00	10.03	11.50	7.40	9.00	20.70
		122	5610	19.21	21.00	10.10	11.50	7.36	9.00	
		138	5690	19.29	21.00	10.17	11.50	7.41	9.00	

5.8GHz WLAN Ant 6				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0		149	5745	19.89	21.50	Not Required	12.00	Not Required	9.50
157			5785	19.93	21.50	12.00		9.50		
165			5825	19.88	21.50	12.00		9.50		
151			5755	19.25	20.50	12.00		9.50		
159			5795	19.33	21.00	12.00		9.50		
149			5745	20.08	21.50	12.00		9.50		
802.11ax-HE20 MCS0		157	5785	20.13	21.50	Not Required	12.00	Not Required	9.50	48.80
		165	5825	20.31	22.00		12.00		9.50	
		151	5755	19.69	21.00		12.00		9.50	
802.11ax-HE40 MCS0		159	5795	19.61	21.00	Not Required	12.00	Not Required	9.50	35.90
		155	5775	19.38	21.00		10.70		12.00	



<5GHz WLAN Ant7>

Ant 7				Full Power Sensor on Standalone Sensor off Standalone Sensor off Simultaneous		Sensor on Simultaneous		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	36	5180	18.13	19.50	Not Required	10.50	40.80
		40	5200	18.07	19.50		10.50	
		44	5220	17.94	19.50		10.50	
		48	5240	17.85	19.50		10.50	
	802.11n-HT40 MCS0	38	5190	20.05	21.50		10.50	35.20
		46	5230	19.81	21.50		10.50	
	802.11ax-HE20 MCS0	36	5180	18.31	20.00		10.50	48.80
		40	5200	18.26	19.50		10.50	
		44	5220	18.07	19.50		10.50	
48		5240	18.09	19.50	10.50			
802.11ax-HE40 MCS0	38	5190	20.04	21.50	10.50	35.90		
	46	5230	19.96	21.50	10.50			
802.11ax-HE80 MCS0	42	5210	18.76	20.00	9.25	10.50	20.70	

Ant 7				Full Power Sensor on Standalone Sensor off Standalone Sensor off Simultaneous		Sensor on Simultaneous		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	52	5260	16.95	18.50	Not Required	11.00	40.80
		56	5280	16.84	18.50		11.00	
		60	5300	16.83	18.50		11.00	
		64	5320	17.07	18.50		11.00	
	802.11n-HT40 MCS0	54	5270	19.74	21.00		11.00	35.20
		62	5310	17.11	18.50		11.00	
	802.11ax-HE20 MCS0	52	5260	17.12	18.50		11.00	48.80
		56	5280	17.16	18.50		11.00	
		60	5300	17.09	18.50		11.00	
802.11ax-HE40 MCS0	54	5270	19.93	21.50	11.00		35.90	
	62	5310	17.84	19.50	11.00			
802.11ax-HE80 MCS0	58	5290	17.73	19.00	9.57	11.00	20.70	



Ant 7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0		100	5500	17.03	18.50	Not Required	12.00	Not Required	9.50
116			5580	16.67	18.00	12.00		9.50		
124			5620	16.78	18.00	12.00		9.50		
132			5660	16.73	18.00	12.00		9.50		
140			5700	16.81	18.00	12.00		9.50		
144			5720	16.93	18.50	12.00		9.50		
802.11n-HT40 MCS0		102	5510	17.01	18.50	Not Required	12.00	Not Required	9.50	35.20
		110	5550	19.86	21.50		12.00		9.50	
		126	5630	19.83	21.50		12.00		9.50	
		134	5670	19.88	21.50		12.00		9.50	
802.11ax-HE20 MCS0		100	5500	17.89	19.50	Not Required	12.00	Not Required	9.50	48.80
		116	5580	16.83	18.50		12.00		9.50	
		124	5620	16.95	18.50		12.00		9.50	
		132	5660	16.97	18.50		12.00		9.50	
		140	5700	17.07	18.50		12.00		9.50	
		144	5720	17.12	18.50		12.00		9.50	
802.11ax-HE40 MCS0		102	5510	18.17	19.50	Not Required	12.00	Not Required	9.50	35.90
		110	5550	20.05	21.50		12.00		9.50	
		126	5630	20.14	21.50		12.00		9.50	
		134	5670	20.17	21.50		12.00		9.50	
802.11ax-HE80 MCS0		106	5530	17.16	18.50	10.48	12.00	7.88	9.50	20.70
		122	5610	19.66	21.00	10.41	12.00	7.95	9.50	
		138	5690	19.56	21.00	10.32	12.00	7.78	9.50	

5.8GHz WLAN Ant 7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0		149	5745	19.71	21.00	Not Required	12.50	Not Required	10.00
157			5785	19.76	21.00	12.50		10.00		
165			5825	19.96	21.50	12.50		10.00		
151			5755	19.74	21.00	12.50		10.00		
159			5795	19.58	21.00	12.50		10.00		
149			5745	19.91	21.50	12.50		10.00		
802.11ax-HE20 MCS0		157	5785	20.01	21.50	Not Required	12.50	Not Required	10.00	48.80
		165	5825	20.41	22.00		12.50		10.00	
802.11ax-HE40 MCS0		151	5755	19.83	21.50	Not Required	12.50	Not Required	10.00	35.90
		159	5795	19.95	21.50		12.50		10.00	
802.11ax-HE80 MCS0		155	5775	19.69	21.00	10.98	12.50	8.37	10.00	20.70



<5GHz WLAN Ant6+7>

Ant 6+7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0		36	5180	20.69	22.00	Not Required	20.50	Not Required	22.00
40			5200	20.67	22.00	20.50		22.00		
44			5220	20.49	22.00	20.50		22.00		
48			5240	20.41	22.00	20.50		22.00		
802.11n-HT40 MCS0		38	5190	22.64	24.00	Not Required	20.50	Not Required	24.00	35.20
		46	5230	22.59	24.00		20.50		24.00	
802.11ax-HE20 MCS0		36	5180	20.91	22.50	Not Required	20.50	Not Required	22.50	48.80
		40	5200	20.81	22.00		20.50		22.00	
		44	5220	20.64	22.00		20.50		22.00	
		48	5240	20.66	22.00		20.50		22.00	
802.11ax-HE40 MCS0		38	5190	22.73	24.00	Not Required	20.50	Not Required	24.00	35.90
		46	5230	22.80	24.00		20.50		24.00	
802.11ax-HE80 MCS0		42	5210	21.53	23.00	19.53	20.50	12.18	13.50	20.70





Ant 6+7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous				
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
	5.3GHz WLAN	802.11n-HT20 MCS0	52	5260	20.35	22.00	Not Required	19.50	Not Required	13.50	40.80	
56			5280	20.29	22.00	19.50		13.50				
60			5300	19.67	21.00	19.50		13.50				
64			5320	19.83	21.00	19.50		13.50				
802.11n-HT40 MCS0		54	5270	22.48	24.00	19.50		13.50		35.20		
		62	5310	20.00	21.50	19.50		13.50				
802.11ax-HE20 MCS0		52	5260	20.72	22.00	Not Required		19.50		Not Required	13.50	48.80
		56	5280	20.65	22.00			19.50			13.50	
		60	5300	19.90	21.50			19.50			13.50	
		64	5320	19.97	21.50			19.50			13.50	
802.11ax-HE40 MCS0		54	5270	22.69	24.00			19.50			13.50	35.90
		62	5310	20.62	22.00			19.50			13.50	
802.11ax-HE80 MCS0	58	5290	20.40	22.00	18.68		19.50	12.33	13.50		20.70	



Ant 6+7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous								
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %						
5.5GHz WLAN	802.11n-HT20 MCS0	100	5500	19.94	21.50	Not Required	14.50	Not Required	12.00	40.80						
		116	5580	19.60	21.00		14.50		12.00							
		124	5620	19.73	21.00		14.50		12.00							
		132	5660	19.65	21.00		14.50		12.00							
		140	5700	19.64	21.00		14.50		12.00							
		144	5720	19.75	21.00		14.50		12.00							
	802.11n-HT40 MCS0	102	5510	19.89	21.50		14.50		12.00	35.20						
		110	5550	22.59	24.00		14.50		12.00							
		126	5630	22.53	24.00		14.50		12.00							
		134	5670	22.52	24.00		14.50		12.00							
		142	5710	22.53	24.00		14.50		12.00							
	802.11ax-HE20 MCS0	100	5500	20.48	22.00		Not Required		14.50	Not Required	12.00	48.80				
		116	5580	19.82	21.00				14.50		12.00					
		124	5620	19.92	21.50				14.50		12.00					
		132	5660	19.89	21.50				14.50		12.00					
		140	5700	19.87	21.50				14.50		12.00					
		144	5720	19.93	21.50				14.50		12.00					
	802.11ax-HE40 MCS0	102	5510	20.96	22.50				Not Required		14.50	Not Required	12.00	35.90		
		110	5550	22.80	24.00						14.50		12.00			
		126	5630	22.82	24.00						14.50		12.00			
		134	5670	22.85	24.00						14.50		12.00			
		142	5710	22.78	24.00						14.50		12.00			
	802.11ax-HE80 MCS0	106	5530	19.96	21.50						13.27		14.50	10.66	12.00	20.70
		122	5610	22.45	24.00						13.27		14.50	10.68	12.00	
138		5690	22.44	24.00	13.26	14.50		10.61			12.00					

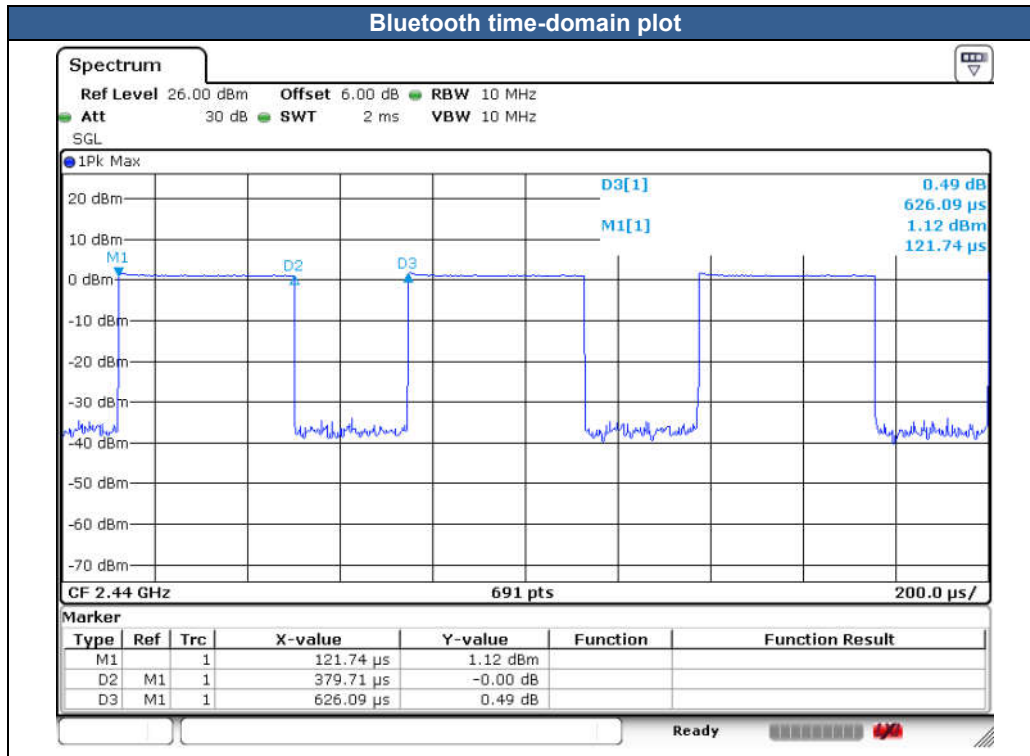


Ant 6+7				Full Power Sensor off Standalone Sensor off Simultaneous		Sensor on Standalone		Sensor on Simultaneous		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT20 MCS0	149	5745	22.81	24.00	Not Required	15.00	Not Required	12.50	40.80
		157	5785	22.86	24.50		15.00		12.50	
		165	5825	22.93	24.50		15.00		12.50	
	802.11n-HT40 MCS0	151	5755	22.51	24.00		15.00		12.50	35.20
		159	5795	22.47	24.00		15.00		12.50	
	802.11ax-HE20 MCS0	149	5745	23.01	24.50		15.00		12.50	48.80
		157	5785	23.08	24.50		15.00		12.50	
		165	5825	23.37	25.00		15.00		12.50	
	802.11ax-HE40 MCS0	151	5755	22.77	24.00		15.00		12.50	35.90
159		5795	22.79	24.00	15.00		12.50			
802.11ax-HE80 MCS0	155	5775	22.55	24.00	13.85	15.00	11.27	12.50	20.70	

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle is 60.65 % as following figure, according to Oct. 2016 TCB workshop for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation





Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	1.40	1.22	1.26
	CH 39	2441	1.92	1.90	2.05
	CH 78	2480	2.07	2.00	1.87
Tune-up Limit			2.5		

< BLE 1M >

Mode	Channel	Frequency (MHz)	Average power (dBm)
BLE	CH 00	2402	4.20
	CH 19	2440	4.74
	CH 39	2480	4.92
Tune-up Limit			5.50

< BLE 2M >

Mode	Channel	Frequency (MHz)	Average power (dBm)
BLE	CH 00	2402	4.33
	CH 19	2440	4.69
	CH 39	2480	4.99
Tune-up Limit			5.50