



Full&Default Power Mode

Band 41 HPUE Ant 4 Full power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2590	2549.5	2593	2636.5	2690				
20	QPSK	1	0	25.99	26.02	26.11	26.00	26.04	27	0		
20	QPSK	1	49	25.85	25.95	26.07	25.97	25.93				
20	QPSK	1	99	25.96	25.97	26.00	25.91	26.01				
20	QPSK	50	0	24.98	25.06	25.15	25.03	25.06	26	1		
20	QPSK	50	24	24.83	24.94	25.06	24.92	24.99				
20	QPSK	50	50	24.81	24.93	25.03	24.88	25.03				
20	QPSK	100	0	25.01	24.96	25.12	25.03	25.05	26	1		
20	16QAM	1	0	24.90	24.99	25.11	24.92	24.92				
20	16QAM	1	49	24.85	24.96	24.98	24.91	24.97				
20	16QAM	1	99	24.94	25.00	25.02	24.95	25.02	25	2		
20	16QAM	50	0	24.02	24.06	24.16	23.99	24.05				
20	16QAM	50	24	23.78	23.96	24.09	23.67	23.98				
20	16QAM	50	50	23.76	23.94	24.09	23.85	24.05	25	2		
20	16QAM	100	0	24.03	23.90	24.06	23.98	24.04				
20	64QAM	1	0	23.86	23.93	24.12	23.87	23.97				
20	64QAM	1	49	23.79	23.94	23.95	23.93	24.02	24	3		
20	64QAM	1	99	23.98	24.00	24.05	23.98	23.96				
20	64QAM	50	0	23.02	23.11	23.19	23.01	23.12				
20	64QAM	50	24	22.84	22.96	23.09	22.96	22.93	22	5		
20	64QAM	50	50	22.75	22.98	23.06	22.86	23.01				
20	64QAM	100	0	22.98	22.94	23.12	23.07	23.10				
20	256QAM	1	0	21.01	21.12	21.18	21.03	21.07	22	5		
20	256QAM	1	49	20.81	20.98	21.00	20.98	21.01				
20	256QAM	1	99	20.79	20.92	21.09	20.89	20.98				
20	256QAM	50	0	21.04	20.93	21.09	21.07	21.00	22	5		
20	256QAM	50	24	20.84	20.93	21.12	20.95	20.90				
20	256QAM	50	50	20.83	20.90	20.98	20.95	20.91				
20	256QAM	100	0	20.95	21.05	21.01	20.96	21.05				
Channel				39725	40170	40620	41088	41515				
Frequency (MHz)				2593.5	2548.3	2593	2637.8	2692.5				
15	QPSK	1	0	25.93	25.88	26.01	25.87	25.89	27.00	0		
15	QPSK	1	37	25.60	25.90	25.97	25.83	25.88				
15	QPSK	1	74	25.72	25.86	25.85	25.74	25.92				
15	QPSK	36	0	24.85	24.98	25.01	24.93	25.01	26	1		
15	QPSK	36	20	24.68	24.82	25.01	24.80	24.89				
15	QPSK	36	39	24.70	24.79	24.96	24.75	24.97				
15	QPSK	75	0	24.87	24.89	25.06	24.88	24.99	26	1		
15	16QAM	1	0	24.84	24.88	25.00	24.87	24.79				
15	16QAM	1	37	24.81	24.81	24.85	24.83	24.87				
15	16QAM	1	74	24.84	24.93	24.90	24.87	24.92	25	2		
15	16QAM	36	0	23.88	24.01	24.08	23.87	23.97				
15	16QAM	36	20	23.66	23.83	23.96	23.86	23.80				
15	16QAM	36	39	23.63	23.87	24.02	23.78	23.90	25	2		
15	16QAM	75	0	23.98	23.80	23.91	23.85	23.92				
15	64QAM	1	0	23.80	23.86	23.99	23.80	23.92				
15	64QAM	1	37	23.65	23.89	23.82	23.82	23.92	24	3		
15	64QAM	1	74	23.84	23.90	23.96	23.82	23.82				
15	64QAM	36	0	22.93	22.99	23.07	22.88	22.98				
15	64QAM	36	20	22.75	22.90	23.01	22.82	22.83	22	5		
15	64QAM	36	39	22.67	22.82	22.99	22.80	22.87				
15	64QAM	75	0	22.85	22.80	23.04	23.01	23.06				
15	256QAM	1	0	20.93	21.06	21.04	20.89	20.93	22	5		
15	256QAM	1	37	20.67	20.92	20.90	20.93	20.93				
15	256QAM	1	74	20.63	20.83	21.02	20.74	20.93				
15	256QAM	36	0	20.88	20.83	21.03	20.97	20.86	22	5		
15	256QAM	36	20	20.76	20.80	21.05	20.85	20.84				
15	256QAM	36	39	20.67	20.74	20.94	20.82	20.80				
15	256QAM	75	0	20.89	20.92	20.86	20.86	20.92				
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2591	2547	2593	2639	2685				
10	QPSK	1	0	25.88	25.96	26.06	25.93	25.99	27.00	0		
10	QPSK	1	25	25.70	25.81	25.94	25.85	25.86				
10	QPSK	1	49	25.77	25.87	25.87	25.73	25.93				
10	QPSK	25	0	24.86	24.96	24.99	24.90	25.01	26	1		
10	QPSK	25	12	24.72	24.88	24.98	24.85	24.89				
10	QPSK	25	25	24.67	24.85	24.95	24.78	24.98				
10	QPSK	50	0	24.97	24.85	25.01	24.94	24.90	26	1		
10	16QAM	1	0	24.79	24.92	25.06	24.80	24.88				
10	16QAM	1	25	24.73	24.81	24.92	24.87	24.89				
10	16QAM	1	49	24.80	24.86	24.96	24.86	24.89	25	2		
10	16QAM	25	0	23.89	23.93	24.05	23.90	23.91				
10	16QAM	25	12	23.71	23.86	24.00	23.88	23.84				
10	16QAM	25	25	23.60	23.82	24.00	23.81	23.95	25	2		
10	16QAM	50	0	23.94	23.86	23.98	23.88	24.00				
10	64QAM	1	0	23.73	23.85	23.97	23.74	23.85				
10	64QAM	1	25	23.72	23.90	23.91	23.85	23.96	25	2		
10	64QAM	1	49	23.93	23.92	23.89	23.89	23.86				
10	64QAM	25	0	22.91	23.03	23.13	22.90	23.04				
10	64QAM	25	12	22.75	22.82	22.98	22.82	22.78	24	3		
10	64QAM	25	25	22.65	22.87	22.99	22.76	22.88				
10	64QAM	50	0	22.90	22.85	22.96	22.97	22.99				
10	256QAM	1	0	20.91	21.05	21.11	20.93	20.97	22	5		
10	256QAM	1	25	20.76	20.87	20.93	20.87	20.97				
10	256QAM	1	49	20.75	20.86	20.97	20.81	20.92				
10	256QAM	25	0	20.95	20.86	20.93	20.96	20.89	22	5		
10	256QAM	25	12	20.78	20.78	20.99	20.88	20.85				
10	256QAM	25	25	20.71	20.77	20.86	20.89	20.76				
10	256QAM	50	0	20.90	21.01	20.96	20.88	20.93				
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	25.91	25.97	26.04	25.95	25.94	27.00	0		
5	QPSK	1	12	25.76	25.83	25.94	25.91	25.87				
5	QPSK	1	24	25.80	25.84	25.88	25.79	25.93				
5	QPSK	12	0	24.86	24.94	25.02	24.94	24.95	26	1		
5	QPSK	12	7	24.68	24.88	25.00	24.87	24.84				
5	QPSK	12	13	24.72	24.85	24.99	24.83	24.93				
5	QPSK	25	0	24.85	24.81	24.97	24.92	24.97	26	1		
5	16QAM	1	0	24.79	24.92	25.07	24.79	24.81				
5	16QAM	1	12	24.75	24.91	24.87	24.86	24.87				
5	16QAM	1	24	24.86	24.87	24.95	24.91	24.90	25	2		
5	16QAM	12	0	23.92	23.91	24.04	23.94	24.00				
5	16QAM	12	7	23.68	23.87	24.01	23.82	23.84				
5	16QAM	12	13	23.70	23.82	24.00	23.75	23.94	25	2		
5	16QAM	25	0	23.92	23.80	24.02	23.92	23.95				
5	64QAM	1	0	23.71	23.77	24.07	23.77	23.88				
5	64QAM	1	12	23.71	23.84	23.80	23.79	23.89	25	2		
5	64QAM	1	24	23.89	23.84	23.90	23.92	23.85				
5	64QAM	12	0	22.95	22.98	23.11	22.87	23.07				
5	64QAM	12	7	22.78	22.92	22.99	22.91	22.88	24	3		
5	64QAM	12	13	22.70	22.86	22.93	22.73	22.95				
5	64QAM	25	0	22.86	22.85	23.03	22.95	22.97				
5	256QAM	1	0	20.87	20.98	21.12	20.91	20.95	22	5		
5	256QAM	1	12	20.74	20.87	20.89	20.84	20.91				
5	256QAM	1	24	20.69	20.87	21.05	20.78	20.86				
5	256QAM	12	0	20.90	20.79	21.01	20.92	20.93	22	5		
5	256QAM	12	7	20.70	20.81	21.01	20.84	20.80				
5	256QAM	12	13	20.70	20.76	20.84	20.83	20.80				
5	256QAM	25	0	20.89	20.98	20.88	20.88	20.91				



Reduced Power Mode for DSI2

Band 41 HPUE Ant 4 DSI 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.89	21.81	21.91	21.88	21.83	22.9	0
20	QPSK	1	49	21.84	21.62	21.76	21.66	21.79	22.9	0
20	QPSK	1	99	21.87	21.69	21.78	21.78	21.73	22.9	0
20	QPSK	50	0	21.77	21.74	21.90	21.82	21.88	22.9	0
20	QPSK	50	24	21.84	21.61	21.81	21.68	21.80	22.9	0
20	QPSK	50	50	21.80	21.71	21.80	21.74	21.64	22.9	0
20	QPSK	100	0	21.77	21.77	21.88	21.82	21.90	22.9	0
20	16QAM	1	0	21.87	21.64	21.85	21.71	21.79	22.9	0
20	16QAM	1	49	21.87	21.67	21.75	21.72	21.73	22.9	0
20	16QAM	1	99	21.79	21.77	21.90	21.85	21.81	22.9	0
20	16QAM	50	0	21.86	21.65	21.82	21.66	21.86	22.9	0
20	16QAM	50	24	21.84	21.72	21.76	21.73	21.64	22.9	0
20	16QAM	50	50	21.82	21.85	21.90	21.79	21.82	22.9	0
20	16QAM	100	0	21.82	21.59	21.78	21.72	21.82	22.9	0
20	64QAM	1	0	21.87	21.66	21.77	21.73	21.71	22.9	0
20	64QAM	1	49	21.78	21.82	21.88	21.87	21.85	22.9	0
20	64QAM	1	99	21.86	21.70	21.80	21.62	21.82	22.9	0
20	64QAM	50	0	21.83	21.70	21.81	21.76	21.66	22.9	0
20	64QAM	50	24	21.78	21.75	21.83	21.85	21.80	22.9	0
20	64QAM	50	50	21.87	21.59	21.81	21.63	21.76	22.9	0
20	64QAM	100	0	21.77	21.75	21.80	21.73	21.74	22.9	0
20	256QAM	1	0	21.01	21.12	21.18	21.03	21.07	22	0.9
20	256QAM	1	49	20.81	20.98	21.00	20.98	21.01	22	0.9
20	256QAM	1	99	20.79	20.92	21.09	20.89	20.98	22	0.9
20	256QAM	50	0	21.04	20.93	21.09	21.07	21.00	22	0.9
20	256QAM	50	24	20.84	20.93	21.12	20.95	20.90	22	0.9
20	256QAM	50	50	20.83	20.90	20.98	20.95	20.91	22	0.9
20	256QAM	100	0	20.95	21.05	21.01	20.96	21.05	22	0.9
Channel				39725	40173	40620	41088	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.75	21.68	21.86	21.76	21.69	22.90	0
15	QPSK	1	37	21.71	21.49	21.72	21.57	21.72	22.90	0
15	QPSK	1	74	21.74	21.63	21.68	21.71	21.66	22.90	0
15	QPSK	36	0	21.62	21.69	21.80	21.77	21.73	22.90	0
15	QPSK	36	20	21.68	21.51	21.70	21.55	21.71	22.90	0
15	QPSK	36	39	21.67	21.66	21.66	21.68	21.59	22.90	0
15	QPSK	75	0	21.71	21.69	21.83	21.69	21.81	22.90	0
15	16QAM	1	0	21.77	21.53	21.73	21.63	21.64	22.90	0
15	16QAM	1	37	21.77	21.58	21.67	21.68	21.69	22.90	0
15	16QAM	1	74	21.71	21.68	21.81	21.78	21.67	22.90	0
15	16QAM	36	0	21.82	21.53	21.68	21.52	21.72	22.90	0
15	16QAM	36	20	21.68	21.63	21.61	21.58	21.53	22.90	0
15	16QAM	36	39	21.70	21.76	21.78	21.64	21.72	22.90	0
15	16QAM	75	0	21.74	21.52	21.65	21.60	21.75	22.90	0
15	64QAM	1	0	21.73	21.55	21.71	21.69	21.61	22.90	0
15	64QAM	1	37	21.72	21.69	21.82	21.71	21.78	22.90	0
15	64QAM	1	74	21.73	21.63	21.67	21.55	21.77	22.90	0
15	64QAM	36	0	21.74	21.55	21.70	21.67	21.55	22.90	0
15	64QAM	36	20	21.69	21.69	21.74	21.74	21.70	22.90	0
15	64QAM	36	39	21.77	21.48	21.74	21.50	21.64	22.90	0
15	64QAM	75	0	21.67	21.60	21.74	21.60	21.59	22.90	0
15	256QAM	1	0	20.93	21.06	21.04	20.89	20.93	22	0.9
15	256QAM	1	37	20.67	20.92	20.90	20.93	20.93	22	0.9
15	256QAM	1	74	20.63	20.83	21.02	20.74	20.93	22	0.9
15	256QAM	36	0	20.98	20.83	21.03	20.97	20.88	22	0.9
15	256QAM	36	20	20.76	20.90	21.05	20.85	20.84	22	0.9
15	256QAM	36	39	20.67	20.74	20.94	20.82	20.80	22	0.9
15	256QAM	75	0	20.89	20.92	20.86	20.86	20.92	22	0.9
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.71	21.71	21.85	21.78	21.78	22.90	0
10	QPSK	1	25	21.68	21.57	21.72	21.50	21.67	22.90	0
10	QPSK	1	49	21.76	21.62	21.66	21.67	21.63	22.90	0
10	QPSK	25	0	21.64	21.61	21.82	21.77	21.80	22.90	0
10	QPSK	25	12	21.79	21.54	21.76	21.55	21.75	22.90	0
10	QPSK	25	25	21.70	21.62	21.76	21.66	21.48	22.90	0
10	QPSK	50	0	21.67	21.69	21.75	21.70	21.78	22.90	0
10	16QAM	1	0	21.82	21.56	21.70	21.57	21.70	22.90	0
10	16QAM	1	25	21.77	21.61	21.69	21.66	21.60	22.90	0
10	16QAM	1	49	21.74	21.62	21.84	21.70	21.73	22.90	0
10	16QAM	25	0	21.79	21.51	21.66	21.50	21.77	22.90	0
10	16QAM	25	12	21.79	21.57	21.65	21.68	21.63	22.90	0
10	16QAM	25	25	21.75	21.71	21.75	21.64	21.71	22.90	0
10	16QAM	50	0	21.68	21.49	21.73	21.56	21.76	22.90	0
10	64QAM	1	0	21.73	21.51	21.68	21.59	21.58	22.90	0
10	64QAM	1	25	21.63	21.74	21.78	21.76	21.75	22.90	0
10	64QAM	1	49	21.82	21.64	21.73	21.52	21.67	22.90	0
10	64QAM	25	0	21.72	21.63	21.69	21.61	21.60	22.90	0
10	64QAM	25	12	21.65	21.61	21.78	21.80	21.69	22.90	0
10	64QAM	25	25	21.73	21.51	21.65	21.51	21.62	22.90	0
10	64QAM	50	0	21.66	21.67	21.74	21.63	21.66	22.90	0
10	256QAM	1	0	20.91	21.05	21.11	20.93	20.97	22	0.9
10	256QAM	1	25	20.76	20.87	20.93	20.87	20.97	22	0.9
10	256QAM	1	49	20.75	20.86	20.97	20.81	20.92	22	0.9
10	256QAM	25	0	20.95	20.86	20.93	20.96	20.89	22	0.9
10	256QAM	25	12	20.78	20.78	20.99	20.88	20.85	22	0.9
10	256QAM	25	25	20.71	20.77	20.86	20.89	20.76	22	0.9
10	256QAM	50	0	20.90	21.01	20.96	20.88	20.93	22	0.9
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.77	21.70	21.75	21.73	21.73	22.90	0
5	QPSK	1	12	21.75	21.53	21.61	21.56	21.74	22.90	0
5	QPSK	1	24	21.81	21.56	21.65	21.74	21.58	22.90	0
5	QPSK	12	0	21.69	21.64	21.81	21.73	21.73	22.90	0
5	QPSK	12	7	21.70	21.51	21.68	21.59	21.70	22.90	0
5	QPSK	12	13	21.70	21.62	21.74	21.59	21.51	22.90	0
5	QPSK	25	0	21.68	21.65	21.77	21.76	21.84	22.90	0
5	16QAM	1	0	21.79	21.56	21.77	21.62	21.69	22.90	0
5	16QAM	1	12	21.74	21.59	21.66	21.68	21.57	22.90	0
5	16QAM	1	24	21.64	21.61	21.75	21.73	21.67	22.90	0
5	16QAM	12	0	21.72	21.53	21.72	21.54	21.73	22.90	0
5	16QAM	12	7	21.74	21.63	21.71	21.67	21.59	22.90	0
5	16QAM	12	13	21.67	21.69	21.79	21.65	21.71	22.90	0
5	16QAM	25	0	21.74	21.45	21.71	21.57	21.77	22.90	0
5	64QAM	1	0	21.80	21.59	21.71	21.61	21.55	22.90	0
5	64QAM	1	12	21.65	21.68	21.76	21.73	21.81	22.90	0
5	64QAM	1	24	21.72	21.60	21.66	21.50	21.73	22.90	0
5	64QAM	12	0	21.70	21.56	21.70	21.66	21.61	22.90	0
5	64QAM	12	7	21.70	21.70	21.71	21.70	21.75	22.90	0
5	64QAM	12	13	21.78	21.43	21.67	21.59	21.61	22.90	0
5	64QAM	25	0	21.63	21.68	21.75	21.66	21.65	22.90	0
5	256QAM	1	0	20.87	20.98	21.12	20.91	20.95	22	0.9
5	256QAM	1	12	20.74	20.87	20.89	20.84	20.91	22	0.9
5	256QAM	1	24	20.69	20.87	21.05	20.78	20.86	22	0.9
5	256QAM	12	0	20.90	20.79	21.01	20.92	20.93	22	0.9
5	256QAM	12	7	20.70	20.81	21.01	20.84	20.80	22	0.9
5	256QAM	12	13	20.70	20.76	20.84	20.83	20.80	22	0.9
5	256QAM	25	0	20.89	20.98	20.88	20.88	20.91	22	0.9

Reduced Power Mode for DSI3

Band 41 HPUE Ant 4 DSI 3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	19.23	19.37	19.41	19.29	19.31	20.3	0		
20	QPSK	1	49	19.19	19.25	19.26	19.18	19.25				
20	QPSK	1	99	19.21	19.33	19.34	19.24	19.17				
20	QPSK	50	0	19.30	19.24	19.30	19.21	19.17				
20	QPSK	50	24	19.10	19.11	19.16	19.06	19.08				
20	QPSK	50	50	19.21	19.21	19.25	19.17	19.10	20.3	0		
20	QPSK	100	0	19.28	19.20	19.33	19.23	19.17				
20	16QAM	1	0	19.34	19.28	19.29	19.32	19.31				
20	16QAM	1	49	19.17	19.19	19.20	19.15	19.14				
20	16QAM	1	99	19.21	19.19	19.29	19.26	19.13				
20	16QAM	50	0	19.31	19.20	19.23	19.08	19.17	20.3	0		
20	16QAM	50	24	19.16	19.01	19.16	19.09	19.05				
20	16QAM	50	50	19.14	19.16	19.16	19.09	19.06				
20	16QAM	100	0	19.16	19.10	19.13	19.18	19.11				
20	64QAM	1	0	19.32	19.28	19.33	19.25	19.20				
20	64QAM	1	49	19.15	19.22	19.33	19.19	19.17	20.3	0		
20	64QAM	1	99	19.12	19.20	19.25	19.17	19.06				
20	64QAM	50	0	19.26	19.16	19.27	19.10	19.11				
20	64QAM	50	24	19.11	19.00	19.18	18.92	19.00				
20	64QAM	50	50	19.15	19.19	19.28	19.09	19.06				
20	64QAM	100	0	19.24	19.10	19.30	19.11	19.15	20.3	0		
20	256QAM	1	0	19.25	19.15	19.32	19.32	19.27				
20	256QAM	1	49	19.11	19.07	19.25	19.07	19.23				
20	256QAM	1	99	19.26	19.18	19.26	19.21	19.12				
20	256QAM	50	0	19.27	19.19	19.19	19.10	19.11				
20	256QAM	50	24	19.09	18.95	19.10	19.07	19.13	20.3	0		
20	256QAM	50	50	19.14	19.16	19.17	19.03	19.08				
20	256QAM	100	0	19.25	19.25	19.10	19.11	19.16				
Channel				39725	40173	40620	41088	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	19.32	19.28	19.21	19.13	19.18	20.30	0		
15	QPSK	1	37	19.07	19.12	19.12	19.12	19.09				
15	QPSK	1	74	19.16	19.23	19.29	19.18	19.08				
15	QPSK	36	0	19.30	19.14	19.15	19.16	19.04				
15	QPSK	36	20	19.03	18.95	19.08	18.94	18.98				
15	QPSK	36	39	19.13	19.07	19.11	19.05	18.96	20.3	0		
15	QPSK	75	0	19.20	19.13	19.18	19.07	19.09				
15	16QAM	1	0	19.30	19.19	19.17	19.22	19.17				
15	16QAM	1	37	19.01	19.10	19.09	19.05	19.05				
15	16QAM	1	74	19.17	19.12	19.13	19.19	19.09				
15	16QAM	36	0	19.25	19.15	19.13	19.01	19.03	20.3	0		
15	16QAM	36	20	19.00	18.92	19.10	18.96	18.95				
15	16QAM	36	39	19.08	19.07	19.05	19.02	18.91				
15	16QAM	75	0	19.07	18.98	18.99	19.10	18.96				
15	64QAM	1	0	19.28	19.14	19.27	19.19	19.14				
15	64QAM	1	37	19.10	19.10	19.28	19.13	19.13	20.3	0		
15	64QAM	1	74	19.08	19.13	19.17	19.03	18.93				
15	64QAM	36	0	19.11	19.10	19.22	18.96	19.03				
15	64QAM	36	20	19.05	18.96	19.06	18.83	18.93				
15	64QAM	36	39	19.01	19.10	19.15	19.04	18.97				
15	64QAM	75	0	19.10	18.95	19.17	19.07	19.05	20.3	0		
15	256QAM	1	0	19.11	19.00	19.21	19.25	19.18				
15	256QAM	1	37	19.07	19.02	19.16	18.96	19.19				
15	256QAM	1	74	19.10	19.07	19.20	19.16	19.06				
15	256QAM	36	0	19.12	19.04	19.12	18.95	18.98				
15	256QAM	36	20	19.03	18.98	19.05	19.02	19.07	20.3	0		
15	256QAM	36	39	18.99	19.03	19.08	18.94	18.94				
15	256QAM	75	0	19.20	19.10	19.95	19.06	19.10				
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	19.28	19.32	19.29	19.21	19.16	20.30	0		
10	QPSK	1	25	19.14	19.21	19.11	19.10	19.11				
10	QPSK	1	49	19.14	19.21	19.35	19.20	19.09				
10	QPSK	25	0	19.34	19.20	19.17	19.14	19.04				
10	QPSK	25	12	19.02	19.03	19.12	18.91	19.01				
10	QPSK	25	25	19.15	19.10	19.13	19.10	18.95	20.3	0		
10	QPSK	50	0	19.15	19.16	19.19	19.08	19.07				
10	16QAM	1	0	19.23	19.18	19.14	19.26	19.21				
10	16QAM	1	25	19.04	19.14	19.06	19.08	19.03				
10	16QAM	1	49	19.08	19.09	19.23	19.18	19.05				
10	16QAM	25	0	19.24	19.05	19.09	18.97	19.02	20.3	0		
10	16QAM	25	12	19.08	18.88	19.06	18.96	19.01				
10	16QAM	25	25	19.05	19.02	19.08	19.05	19.02				
10	16QAM	50	0	19.05	19.05	19.06	19.08	19.07				
10	64QAM	1	0	19.21	19.20	19.22	19.14	19.06				
10	64QAM	1	25	19.02	19.12	19.20	19.08	19.09	20.3	0		
10	64QAM	1	49	19.00	19.08	19.13	19.09	18.90				
10	64QAM	25	0	19.11	19.01	19.21	19.03	19.04				
10	64QAM	25	12	19.07	18.91	19.08	18.83	18.90				
10	64QAM	25	25	19.04	19.05	19.20	18.96	18.98				
10	64QAM	50	0	19.19	19.04	19.18	18.96	19.04	20.3	0		
10	256QAM	1	0	19.10	19.04	19.17	19.28	19.12				
10	256QAM	1	25	19.03	18.94	19.13	18.97	19.11				
10	256QAM	1	49	19.19	19.03	19.17	19.17	19.04				
10	256QAM	25	0	19.20	19.10	19.05	18.98	18.96				
10	256QAM	25	12	19.03	18.80	19.02	19.01	19.00	20.3	0		
10	256QAM	25	25	19.10	19.09	19.03	18.96	18.99				
10	256QAM	50	0	19.10	19.16	19.01	19.04	19.09				
Channel				39715	40143	40620	41093	41525				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	19.39	19.32	19.24	19.20	19.25	20.30	0		
5	QPSK	1	12	19.12	19.15	19.15	19.13	19.16				
5	QPSK	1	24	19.17	19.26	19.33	19.19	19.05				
5	QPSK	12	0	19.28	19.11	19.22	19.15	19.10				
5	QPSK	12	7	18.97	18.95	19.08	18.93	19.03				
5	QPSK	12	13	19.12	19.06	19.14	19.12	19.03	20.3	0		
5	QPSK	25	0	19.14	19.09	19.28	19.12	19.04				
5	16QAM	1	0	19.22	19.15	19.18	19.24	19.22				
5	16QAM	1	12	19.08	19.14	19.10	19.09	19.06				
5	16QAM	1	24	19.08	19.09	19.22	19.19	19.07				
5	16QAM	12	0	19.24	19.10	19.09	18.93	19.08	20.3	0		
5	16QAM	12	7	19.07	18.89	19.06	18.97	18.95				
5	16QAM	12	13	19.01	19.06	19.09	19.02	19.00				
5	16QAM	25	0	19.12	19.00	19.05	19.04	19.03				
5	64QAM	1	0	19.22	19.17	19.22	19.16	19.12				
5	64QAM	1	12	19.11	19.13	19.24	19.14	19.09	20.3	0		
5	64QAM	1	24	19.01	19.06	19.14	19.05	18.91				
5	64QAM	12	0	19.17	19.10	19.14	19.02	19.07				
5	64QAM	12	7	19.04	18.91	19.07	18.83	18.87				
5	64QAM	12	13	19.04	19.06	19.19	19.03	18.95				
5	64QAM	25	0	19.13	19.01	19.19	19.03	19.10	20.3	0		
5	256QAM	1	0	19.16	19.03	19.25	19.22	19.19				
5	256QAM	1	12	19.04	18.92	19.11	19.00	19.07				
5	256QAM	1	24	19.19	19.03	19.12	19.09	18.96				
5	256QAM	12	0	19.13	19.08	19.13	19.02	18.97				
5	256QAM	12	7	19.01	18.88	19.04	18.95	19.09	20.3	0		
5	256QAM	12	13	19.02	19.10	19.09	18.87	18.95				
5	256QAM	25	0	19.16	19.19	18.96	19.06	19.05				



Reduced Power Mode for DSI6

Band 41 HPUE Ant 4 DSI 6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.65	22.68	22.81	22.69	22.69	23.9	0
20	QPSK	1	49	22.70	22.63	22.74	22.69	22.66		
20	QPSK	1	99	22.72	22.69	22.76	22.69	22.77		
20	QPSK	50	0	22.60	22.59	22.71	22.55	22.52		
20	QPSK	50	24	22.71	22.65	22.74	22.58	22.57		
20	QPSK	50	50	22.80	22.73	22.71	22.77	22.68		
20	QPSK	100	0	22.71	22.76	22.74	22.69	22.73		
20	16QAM	1	0	22.57	22.54	22.74	22.65	22.57		
20	16QAM	1	49	22.61	22.55	22.79	22.59	22.47		
20	16QAM	1	99	22.62	22.55	22.74	22.63	22.60		
20	16QAM	50	0	22.54	22.39	22.61	22.53	22.37		
20	16QAM	50	24	22.57	22.57	22.61	22.55	22.40		
20	16QAM	50	50	22.73	22.62	22.77	22.62	22.56		
20	16QAM	100	0	22.70	22.79	22.73	22.76	22.71		
20	64QAM	1	0	22.65	22.62	22.69	22.68	22.50		
20	64QAM	1	49	22.67	22.53	22.76	22.58	22.61		
20	64QAM	1	99	22.44	22.48	22.53	22.51	22.49		
20	64QAM	50	0	22.45	22.26	22.44	22.38	22.36		
20	64QAM	50	24	22.47	22.34	22.47	22.35	22.34		
20	64QAM	50	50	22.42	22.43	22.49	22.31	22.41		
20	64QAM	100	0	22.40	22.39	22.46	22.39	22.34		
20	256QAM	1	0	21.01	21.12	21.18	21.03	21.07		
20	256QAM	1	49	20.81	20.98	21.00	20.98	21.01		
20	256QAM	1	99	20.79	20.92	21.09	20.89	20.98		
20	256QAM	50	0	21.04	20.93	21.09	21.07	21.00		
20	256QAM	50	24	20.84	20.93	21.12	20.95	20.90		
20	256QAM	50	50	20.83	20.90	20.98	20.95	20.91		
20	256QAM	100	0	20.95	21.05	21.01	20.96	21.05		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.55	22.62	22.67	22.58	22.57	23.90	0
15	QPSK	1	37	22.61	22.49	22.65	22.60	22.52		
15	QPSK	1	74	22.66	22.61	22.66	22.59	22.69		
15	QPSK	36	0	22.47	22.47	22.60	22.42	22.39		
15	QPSK	36	20	22.58	22.50	22.58	22.46	22.52		
15	QPSK	36	39	22.74	22.60	22.58	22.69	22.59		
15	QPSK	75	0	22.63	22.66	22.60	22.56	22.61		
15	16QAM	1	0	22.50	22.50	22.60	22.53	22.49		
15	16QAM	1	37	22.56	22.47	22.74	22.45	22.35		
15	16QAM	1	74	22.49	22.47	22.69	22.57	22.48		
15	16QAM	36	0	22.40	22.37	22.49	22.49	22.27		
15	16QAM	36	20	22.44	22.43	22.48	22.49	22.26		
15	16QAM	36	39	22.66	22.57	22.68	22.56	22.42		
15	16QAM	75	0	22.65	22.67	22.59	22.69	22.64		
15	64QAM	1	0	22.60	22.52	22.57	22.55	22.46		
15	64QAM	1	37	22.53	22.45	22.64	22.54	22.57		
15	64QAM	1	74	22.34	22.38	22.39	22.41	22.36		
15	64QAM	36	0	22.38	22.14	22.33	22.33	22.23		
15	64QAM	36	20	22.35	22.25	22.34	22.23	22.19		
15	64QAM	36	39	22.37	22.30	22.44	22.22	22.30		
15	64QAM	75	0	22.35	22.24	22.32	22.35	22.22		
15	256QAM	1	0	20.93	21.06	21.04	20.89	20.93		
15	256QAM	1	37	20.67	20.92	20.90	20.93	20.93		
15	256QAM	1	74	20.63	20.83	21.02	20.74	20.93		
15	256QAM	36	0	20.88	20.83	21.03	20.97	20.86		
15	256QAM	36	20	20.76	20.80	21.05	20.85	20.94		
15	256QAM	36	39	20.67	20.74	20.94	20.82	20.80		
15	256QAM	75	0	20.89	20.92	20.86	20.86	20.92		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.53	22.57	22.69	22.64	22.62	23.90	0
10	QPSK	1	25	22.57	22.58	22.59	22.62	22.50		
10	QPSK	1	49	22.68	22.54	22.66	22.54	22.72		
10	QPSK	25	0	22.47	22.48	22.56	22.44	22.42		
10	QPSK	25	12	22.58	22.55	22.63	22.52	22.51		
10	QPSK	25	25	22.70	22.64	22.59	22.64	22.57		
10	QPSK	50	0	22.60	22.68	22.69	22.59	22.69		
10	16QAM	1	0	22.47	22.39	22.68	22.57	22.45		
10	16QAM	1	25	22.50	22.49	22.66	22.54	22.38		
10	16QAM	1	49	22.52	22.45	22.62	22.48	22.45		
10	16QAM	25	0	22.49	22.27	22.47	22.41	22.28		
10	16QAM	25	12	22.46	22.44	22.48	22.48	22.29		
10	16QAM	25	25	22.67	22.55	22.73	22.54	22.43		
10	16QAM	50	0	22.56	22.72	22.69	22.66	22.58		
10	64QAM	1	0	22.61	22.63	22.56	22.53	22.40		
10	64QAM	1	25	22.57	22.48	22.62	22.44	22.49		
10	64QAM	1	49	22.35	22.41	22.38	22.44	22.42		
10	64QAM	25	0	22.35	22.22	22.32	22.29	22.24		
10	64QAM	25	12	22.42	22.23	22.39	22.30	22.22		
10	64QAM	25	25	22.29	22.34	22.45	22.21	22.34		
10	64QAM	50	0	22.31	22.32	22.34	22.25	22.21		
10	256QAM	1	0	20.91	21.05	21.11	20.93	20.97		
10	256QAM	1	25	20.76	20.87	20.93	20.87	20.87		
10	256QAM	1	49	20.75	20.86	20.97	20.81	20.92		
10	256QAM	25	0	20.95	20.86	20.93	20.96	20.89		
10	256QAM	25	12	20.78	20.78	20.99	20.88	20.85		
10	256QAM	25	25	20.71	20.77	20.86	20.89	20.76		
10	256QAM	50	0	20.90	21.01	20.96	20.88	20.93		
Channel				39975	40143	40620	41093	41555		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.52	22.54	22.73	22.58	22.60	23.90	0
5	QPSK	1	12	22.60	22.58	22.61	22.60	22.60		
5	QPSK	1	24	22.62	22.54	22.62	22.60	22.72		
5	QPSK	12	0	22.48	22.47	22.63	22.49	22.45		
5	QPSK	7	7	22.57	22.59	22.61	22.53	22.49		
5	QPSK	12	13	22.71	22.61	22.61	22.61	22.58		
5	QPSK	25	0	22.65	22.62	22.68	22.62	22.63		
5	16QAM	1	0	22.51	22.48	22.65	22.56	22.50		
5	16QAM	1	12	22.55	22.47	22.71	22.51	22.32		
5	16QAM	1	24	22.57	22.50	22.62	22.49	22.51		
5	16QAM	12	0	22.39	22.26	22.46	22.37	22.26		
5	16QAM	12	7	22.44	22.50	22.48	22.49	22.33		
5	16QAM	12	13	22.60	22.54	22.72	22.50	22.43		
5	16QAM	25	0	22.62	22.63	22.60	22.58	22.58		
5	64QAM	1	0	22.50	22.57	22.53	22.53	22.43		
5	64QAM	1	12	22.58	22.48	22.67	22.43	22.49		
5	64QAM	1	24	22.32	22.38	22.37	22.46	22.36		
5	64QAM	12	0	22.39	22.19	22.39	22.26	22.25		
5	64QAM	12	7	22.39	22.27	22.36	22.26	22.21		
5	64QAM	12	13	22.37	22.28	22.42	22.17	22.37		
5	64QAM	25	0	22.33	22.33	22.39	22.29	22.25		
5	256QAM	1	0	20.87	20.98	21.12	20.91	20.95		
5	256QAM	1	12	20.74	20.87	20.89	20.84	20.91		
5	256QAM	1	24	20.69	20.87	21.05	20.78	20.86		
5	256QAM	12	0	20.90	20.79	21.01	20.92	20.93		
5	256QAM	12	7	20.70	20.81	21.01	20.84	20.80		
5	256QAM	12	13	20.70	20.76	20.84	20.83	20.80		
5	256QAM	25	0	20.89	20.98	20.88	20.88	20.91		



Reduced Power Mode for DSI7

Band 41 HPUE Ant 4 DSI 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.42	16.40	16.54	16.38	16.48	17.6	0
20	QPSK	1	49	16.33	16.30	16.32	16.34	16.30	17.6	0
20	QPSK	1	99	16.45	16.39	16.44	16.31	16.37	17.6	0
20	QPSK	50	0	16.36	16.41	16.40	16.37	16.32	17.6	0
20	QPSK	50	24	16.25	16.18	16.33	16.17	16.25	17.6	0
20	QPSK	50	50	16.29	16.17	16.33	16.24	16.23	17.6	0
20	QPSK	100	0	16.40	16.41	16.37	16.40	16.32	17.6	0
20	16QAM	1	0	16.37	16.37	16.38	16.34	16.39	17.6	0
20	16QAM	1	49	16.33	16.30	16.26	16.21	16.26	17.6	0
20	16QAM	1	99	16.31	16.30	16.36	16.26	16.33	17.6	0
20	16QAM	50	0	16.32	16.30	16.43	16.25	16.23	17.6	0
20	16QAM	50	24	16.10	16.17	16.21	16.07	16.12	17.6	0
20	16QAM	50	50	16.30	16.06	16.22	16.21	16.14	17.6	0
20	16QAM	100	0	16.32	16.29	16.36	16.34	16.26	17.6	0
20	64QAM	1	0	16.30	16.35	16.47	16.31	16.38	17.6	0
20	64QAM	1	49	16.16	16.23	16.31	16.16	16.29	17.6	0
20	64QAM	1	99	16.34	16.19	16.22	16.26	16.27	17.6	0
20	64QAM	50	0	16.29	16.31	16.31	16.23	16.36	17.6	0
20	64QAM	50	24	16.27	16.16	16.22	16.08	16.13	17.6	0
20	64QAM	50	50	16.18	16.11	16.25	16.20	16.12	17.6	0
20	64QAM	100	0	16.39	16.21	16.35	16.36	16.22	17.6	0
20	256QAM	1	0	16.35	16.36	16.33	16.40	16.39	17.6	0
20	256QAM	1	49	16.28	16.17	16.40	16.20	16.24	17.6	0
20	256QAM	1	99	16.26	16.24	16.23	16.28	16.26	17.6	0
20	256QAM	50	0	16.26	16.26	16.33	16.25	16.23	17.6	0
20	256QAM	50	24	16.20	16.16	16.21	16.12	16.17	17.6	0
20	256QAM	50	50	16.30	16.13	16.18	16.16	16.10	17.6	0
20	256QAM	100	0	16.29	16.30	16.38	16.31	16.31	17.6	0
Channel				39725	40173	40620	41088	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.31	16.27	16.41	16.33	16.37	17.60	0
15	QPSK	1	37	16.23	16.22	16.22	16.21	16.14	17.6	0
15	QPSK	1	74	16.36	16.24	16.37	16.15	16.27	17.6	0
15	QPSK	36	0	16.21	16.31	16.34	16.32	16.16	17.6	0
15	QPSK	36	20	16.13	16.03	16.21	16.08	16.20	17.6	0
15	QPSK	36	39	16.24	16.05	16.23	16.17	16.10	17.6	0
15	QPSK	75	0	16.27	16.34	16.27	16.31	16.26	17.6	0
15	16QAM	1	0	16.21	16.32	16.24	16.28	16.27	17.6	0
15	16QAM	1	37	16.17	16.25	16.16	16.08	16.11	17.6	0
15	16QAM	1	74	16.19	16.16	16.28	16.19	16.27	17.6	0
15	16QAM	36	0	16.17	16.19	16.32	16.17	16.14	17.6	0
15	16QAM	36	20	16.04	16.04	16.07	15.99	16.02	17.6	0
15	16QAM	36	39	16.24	15.99	16.10	16.11	16.02	17.6	0
15	16QAM	75	0	16.26	16.15	16.29	16.26	16.13	17.6	0
15	64QAM	1	0	16.21	16.23	16.31	16.23	16.26	17.6	0
15	64QAM	1	37	16.06	16.09	16.23	16.01	16.16	17.6	0
15	64QAM	1	74	16.28	16.09	16.16	16.12	16.17	17.6	0
15	64QAM	36	0	16.18	16.19	16.21	16.14	16.20	17.6	0
15	64QAM	36	20	16.15	16.07	16.16	15.95	15.98	17.6	0
15	64QAM	36	39	16.13	15.97	16.14	16.06	16.03	17.6	0
15	64QAM	75	0	16.24	16.09	16.20	16.29	16.16	17.6	0
15	256QAM	1	0	16.19	16.21	16.18	16.26	16.33	17.6	0
15	256QAM	1	37	16.17	16.06	16.34	16.15	16.11	17.6	0
15	256QAM	1	74	16.18	16.19	16.09	16.18	16.13	17.6	0
15	256QAM	36	0	16.17	16.11	16.22	16.10	16.14	17.6	0
15	256QAM	36	20	16.08	16.09	16.12	16.01	16.13	17.6	0
15	256QAM	36	39	16.23	16.04	16.12	16.05	16.05	17.6	0
15	256QAM	75	0	16.21	16.21	16.29	16.15	16.17	17.6	0
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.30	16.28	16.40	16.29	16.34	17.60	0
10	QPSK	1	25	16.27	16.18	16.22	16.22	16.23	17.6	0
10	QPSK	1	49	16.39	16.30	16.30	16.18	16.25	17.6	0
10	QPSK	25	0	16.25	16.29	16.32	16.23	16.20	17.6	0
10	QPSK	25	12	16.12	16.05	16.27	16.02	16.17	17.6	0
10	QPSK	25	25	16.17	16.08	16.18	16.14	16.09	17.6	0
10	QPSK	50	0	16.25	16.35	16.23	16.29	16.23	17.6	0
10	16QAM	1	0	16.28	16.23	16.33	16.21	16.34	17.6	0
10	16QAM	1	25	16.20	16.23	16.12	16.08	16.14	17.6	0
10	16QAM	1	49	16.24	16.20	16.31	16.18	16.19	17.6	0
10	16QAM	25	0	16.23	16.25	16.39	16.18	16.07	17.6	0
10	16QAM	25	12	15.97	16.04	16.12	15.97	16.07	17.6	0
10	16QAM	25	25	16.22	15.97	16.08	16.08	16.04	17.6	0
10	16QAM	50	0	16.23	16.18	16.22	16.28	16.14	17.6	0
10	64QAM	1	0	16.19	16.20	16.33	16.16	16.24	17.6	0
10	64QAM	1	25	16.04	16.13	16.16	16.06	16.16	17.6	0
10	64QAM	1	49	16.24	16.10	16.10	16.12	16.18	17.6	0
10	64QAM	25	0	16.14	16.18	16.25	16.14	16.23	17.6	0
10	64QAM	25	12	16.20	16.05	16.11	15.93	16.03	17.6	0
10	64QAM	25	25	16.12	15.99	16.13	16.11	16.03	17.6	0
10	64QAM	50	0	16.33	16.13	16.22	16.31	16.11	17.6	0
10	256QAM	1	0	16.25	16.21	16.28	16.29	16.28	17.6	0
10	256QAM	1	25	16.14	16.03	16.31	16.13	16.16	17.6	0
10	256QAM	1	49	16.17	16.17	16.16	16.22	16.13	17.6	0
10	256QAM	25	0	16.14	16.16	16.26	16.13	16.17	17.6	0
10	256QAM	25	12	16.07	16.06	16.09	15.99	16.07	17.6	0
10	256QAM	25	25	16.25	16.00	16.09	16.03	15.99	17.6	0
10	256QAM	50	0	16.17	16.20	16.29	16.16	16.20	17.6	0
Channel				39675	40143	40620	41093	41555		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.38	16.35	16.41	16.31	16.42	17.60	0
5	QPSK	1	12	16.26	16.14	16.21	16.28	16.21	17.6	0
5	QPSK	1	24	16.30	16.34	16.39	16.23	16.24	17.6	0
5	QPSK	12	0	16.26	16.30	16.25	16.25	16.17	17.6	0
5	QPSK	12	7	16.18	16.03	16.24	16.07	16.18	17.6	0
5	QPSK	12	13	16.15	16.02	16.26	16.11	16.09	17.6	0
5	QPSK	25	0	16.30	16.31	16.28	16.36	16.25	17.6	0
5	16QAM	1	0	16.29	16.32	16.31	16.21	16.30	17.6	0
5	16QAM	1	12	16.23	16.24	16.22	16.15	16.20	17.6	0
5	16QAM	1	24	16.27	16.16	16.27	16.15	16.26	17.6	0
5	16QAM	12	0	16.20	16.20	16.31	16.10	16.14	17.6	0
5	16QAM	12	7	16.02	16.09	16.17	15.91	15.99	17.6	0
5	16QAM	12	13	16.19	15.99	16.07	16.13	15.99	17.6	0
5	16QAM	25	0	16.27	16.25	16.29	16.27	16.15	17.6	0
5	64QAM	1	0	16.21	16.19	16.41	16.26	16.31	17.6	0
5	64QAM	1	12	16.01	16.13	16.24	16.05	16.17	17.6	0
5	64QAM	1	24	16.20	16.12	16.06	16.17	16.12	17.6	0
5	64QAM	12	0	16.16	16.21	16.24	16.16	16.27	17.6	0
5	64QAM	12	7	16.11	16.03	16.08	15.93	16.04	17.6	0
5	64QAM	12	13	16.13	15.95	16.10	16.13	16.01	17.6	0
5	64QAM	25	0	16.31	16.10	16.30	16.27	16.07	17.6	0
5	256QAM	1	0	16.20	16.29	16.19	16.29	16.34	17.6	0
5	256QAM	1	12	16.21	16.10	16.24	16.12	16.13	17.6	0
5	256QAM	1	24	16.22	16.17	16.14	16.16	16.12	17.6	0
5	256QAM	12	0	16.17	16.11	16.27	16.13	16.18	17.6	0
5	256QAM	12	7	16.14	16.06	16.17	16.01	16.10	17.6	0
5	256QAM	12	13							

DL CA

2CA DL

CA List	PCC								SCC					Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel		RB	RB	Configuratio	Band	(MHz)	Freq.	Channel	n	Tx. Power	Tx. Power
			(MHz)	(MHz)			Offset	n			(MHz)	(MHz)		(dBm)	(dBm)	
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.06	23.17
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.16	23.30
CA_7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 5	10M	881.5	2525		23.01	23.13
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.95	23.13
CA_7B	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.2	3193	4x4MIMO	22.92	23.08
CA_7C	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.96	23.13
CA_38C	Band 38	Ant4	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2599.8	38048	4x4MIMO	22.66	22.80

3CA DL

3CA List	PCC								SCC1				SCC2			Power					
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(Mhz)	Freq. (Mhz)	Channel		RB	RB Offset		Band	(Mhz)	Freq. (Mhz)	Channel		Band	(Mhz)	Freq. (Mhz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_41A-41A-41A	Band 41	Ant 4	20M	2593	40820	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	22.76	22.90



4CA DL

Configure	PCC									SCC1				SCC2				SCC3				Power				
	LTE	BW	BW	UL	UL	Mod.	ULF	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel		RB	RB		Offset	Band	(MHz)	Freq.		Channel	Band	(MHz)	Freq.		Channel	Band	(MHz)	Freq.		Channel	Tx. Power (dBm)
CA_41A-41A-41C	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	22.79	22.90
CA_41A-41D	Band 41	Ant 4	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2640.4	41094	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.66	22.83
CA_41C-41C	Band 41	Ant 4	20M	2506	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2690	41490	4x4MIMO	22.71	22.83
CA_41E	Band 41	Ant 4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	22.83	22.90

Uplink CA Power

Full&Default Power Mode

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.30	23.00
21100	21298	QPSK	1	99	1	0	21.45	23.00
21350	21152	QPSK	1	0	1	99	21.44	23.00

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.62	23.00
37901	38099	QPSK	1	99	1	0	21.48	23.00
38150	37952	QPSK	1	0	1	99	21.50	23.00

CA_41C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.59	23.00
40185	40383	QPSK	1	99	1	0	21.65	23.00
40620	40818	QPSK	1	99	1	0	21.52	23.00
41055	41253	QPSK	1	99	1	0	21.53	23.00
41490	41292	QPSK	1	0	1	99	21.48	23.00

Reduced Power Mode for DSI2

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.30	23.00
21100	21298	QPSK	1	99	1	0	21.45	23.00
21350	21152	QPSK	1	0	1	99	21.44	23.00

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.92	21.30
37901	38099	QPSK	1	99	1	0	19.82	21.30
38150	37952	QPSK	1	0	1	99	19.84	21.30

CA_41C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.89	21.30
40185	40383	QPSK	1	99	1	0	19.95	21.30
40620	40818	QPSK	1	99	1	0	19.84	21.30
41055	41253	QPSK	1	99	1	0	19.86	21.30
41490	41292	QPSK	1	0	1	99	19.83	21.30

Reduced Power Mode for DSI3

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	17.10	18.70
21100	21298	QPSK	1	99	1	0	17.16	18.70
21350	21152	QPSK	1	0	1	99	17.12	18.70

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.48	18.70
37901	38099	QPSK	1	99	1	0	17.36	18.70
38150	37952	QPSK	1	0	1	99	17.33	18.70

CA_41C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.52	18.70
40185	40383	QPSK	1	99	1	0	17.55	18.70
40620	40818	QPSK	1	99	1	0	17.42	18.70
41055	41253	QPSK	1	99	1	0	17.38	18.70
41490	41292	QPSK	1	0	1	99	17.36	18.70

Reduced Power Mode for DSI7

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	17.10	18.70
21100	21298	QPSK	1	99	1	0	17.16	18.70
21350	21152	QPSK	1	0	1	99	17.12	18.70

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	14.75	16.00
37901	38099	QPSK	1	99	1	0	14.56	16.00
38150	37952	QPSK	1	0	1	99	14.62	16.00

CA_41C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.79	16.00
40185	40383	QPSK	1	99	1	0	14.82	16.00
40620	40818	QPSK	1	99	1	0	14.66	16.00
41055	41253	QPSK	1	99	1	0	14.74	16.00
41490	41292	QPSK	1	0	1	99	14.68	16.00

Reduced Power Mode for DSI6

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.85	21.40
21100	21298	QPSK	1	99	1	0	19.96	21.40
21350	21152	QPSK	1	0	1	99	19.88	21.40

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.06	22.30
37901	38099	QPSK	1	99	1	0	20.92	22.30
38150	37952	QPSK	1	0	1	99	20.99	22.30

CA_41C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.10	22.30
40185	40383	QPSK	1	99	1	0	21.12	22.30
40620	40818	QPSK	1	99	1	0	20.98	22.30
41055	41253	QPSK	1	99	1	0	21.03	22.30
41490	41292	QPSK	1	0	1	99	20.96	22.30



Full&Default Power Mode

Par270 n77 Ant 5 Full power										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 652000	High Ch. / Freq. 652000				
Channel				3750	3840	3930				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	22.77	22.92	22.71	24.0	0.0		
100	PI/2 BPSK	1	137	22.68	22.91	22.76				
100	PI/2 BPSK	1	271	22.58	22.80	22.61				
100	PI/2 BPSK	135	0	22.32	22.48	22.27	23.5	0.5		
100	PI/2 BPSK	135	69	22.75	22.90	22.75	24.0	0.0		
100	PI/2 BPSK	135	138	22.35	22.58	22.39	23.5	0.5		
100	PI/2 BPSK	270	0	22.31	22.49	22.26				
100	QPSK	1	1	22.78	23.02	22.79				
100	QPSK	1	137	22.79	22.97	22.79	24.0	0.0		
100	QPSK	1	271	22.61	23.00	22.85				
100	QPSK	135	0	21.87	22.09	21.86	23.0	1.0		
100	QPSK	135	69	22.74	22.91	22.76	24.0	0.0		
100	QPSK	135	138	21.83	21.98	21.82	23.0	1.0		
100	QPSK	270	0	21.78	22.04	21.82				
100	16QAM	1	1	21.72	21.95	21.78	23.0	1.0		
100	64QAM	1	1	20.30	20.49	20.31	21.5	2.5		
100	256QAM	1	1	18.32	18.54	18.30	19.5	4.5		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	22.64	22.81	22.64	24.0	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.01	3840	3940.02				
80	QPSK	1	1	22.65	22.77	22.60	24.0	0.0		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	22.62	22.81	22.60	24.0	0.0		
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.02	3840	3950.01				
60	QPSK	1	1	22.59	22.77	22.63	24.0	0.0		
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	22.57	22.75	22.62	24.0	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3950				
40	QPSK	1	1	22.57	22.82	22.62	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	22.60	22.72	22.62	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	22.68	22.81	22.64	24.0	0.0		

Par270 n77 HPUE Ant 5 Full power										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 656000	High Ch. / Freq. 662000				
Channel				3750	3840	3930				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	25.62	25.85	25.60	27.0	0.0		
100	PI/2 BPSK	1	137	25.59	25.86	25.67				
100	PI/2 BPSK	1	271	25.49	25.72	25.51				
100	PI/2 BPSK	135	0	25.18	25.37	25.12	26.5	0.5		
100	PI/2 BPSK	135	69	25.64	25.80	25.66	27.0	0.0		
100	PI/2 BPSK	135	138	25.22	25.62	25.33	26.5	0.5		
100	PI/2 BPSK	270	0	25.18	25.37	25.17				
100	QPSK	1	1	25.68	25.92	25.74				
100	QPSK	1	137	25.68	25.87	25.67	27.0	0.0		
100	QPSK	1	271	25.70	25.90	25.81				
100	QPSK	135	0	24.80	25.04	24.75	26.0	1.0		
100	QPSK	135	69	25.62	25.83	25.63	27.0	0.0		
100	QPSK	135	138	24.77	24.82	24.72	26.0	1.0		
100	QPSK	270	0	24.67	24.96	24.66				
100	16QAM	1	1	24.66	24.80	24.64	26.0	1.0		
100	64QAM	1	1	23.25	23.35	23.21	24.5	2.5		
100	256QAM	1	1	21.18	21.46	21.24	22.5	4.5		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	25.53	25.65	25.51	27.0	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	25.61	25.57	25.53	27.0	0.0		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	25.61	25.61	25.51	27.0	0.0		
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.02	3840	3950.01				
60	QPSK	1	1	25.53	25.57	25.51	27.0	0.0		
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	25.57	25.65	25.56	27.0	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3950				
40	QPSK	1	1	25.58	25.59	25.47	27.0	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	25.58	25.64	25.56	27.0	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	25.62	25.64	25.55	27.0	0.0		



Par270 n78 Ant 5 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	Pi/2 BPSK	1	1	22.80					
100	Pi/2 BPSK	1	137	22.80			24.0	0.0	
100	Pi/2 BPSK	1	271	22.88					
100	Pi/2 BPSK	135	0	22.34			23.5	0.5	
100	Pi/2 BPSK	135	69	22.72			24.0	0.0	
100	Pi/2 BPSK	135	138	22.47					
100	Pi/2 BPSK	270	0	22.43			23.5	0.5	
100	QPSK	1	1	22.94					
100	QPSK	1	137	22.87			24.0	0.0	
100	QPSK	1	271	22.85					
100	QPSK	135	0	22.02			23.0	1.0	
100	QPSK	135	69	22.84			24.0	0.0	
100	QPSK	135	138	21.81			23.0	1.0	
100	QPSK	270	0	21.88					
100	16QAM	1	1	21.81			23.0	1.0	
100	64QAM	1	1	20.39			21.5	2.5	
100	256QAM	1	1	18.44			19.5	4.5	
Channel				649688	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	22.48	22.86	22.48	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	22.51	22.88	22.53	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	22.53	22.89	22.52	24.0	0.0	
Channel				648688	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	22.55	22.71	22.49	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	22.48	22.67	22.54	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)	
40	QPSK	1	1	22.85	22.73	22.67	24.0	0.0	
Channel				647688	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	22.50	22.67	22.54	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	22.47	22.73	22.48	24.0	0.0	

Par270 n78 HPUE Ant 5 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	Pi/2 BPSK	1	1	25.76					
100	Pi/2 BPSK	1	137	25.76			27.0	0.0	
100	Pi/2 BPSK	1	271	25.65					
100	Pi/2 BPSK	135	0	25.19			26.5	0.5	
100	Pi/2 BPSK	135	69	25.70			27.0	0.0	
100	Pi/2 BPSK	135	138	25.37					
100	Pi/2 BPSK	270	0	25.19			26.5	0.5	
100	QPSK	1	1	25.76					
100	QPSK	1	137	25.71			27.0	0.0	
100	QPSK	1	271	25.75					
100	QPSK	135	0	24.92			26.0	1.0	
100	QPSK	135	69	25.71			27.0	0.0	
100	QPSK	135	138	24.75			26.0	1.0	
100	QPSK	270	0	24.79					
100	16QAM	1	1	24.71			26.0	1.0	
100	64QAM	1	1	23.30			24.5	2.5	
100	256QAM	1	1	21.28			22.5	4.5	
Channel				649688	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	25.39	25.57	25.34	27.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	25.38	25.54	25.45	27.0	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	25.38	25.54	25.37	27.0	0.0	
Channel				648688	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	25.40	25.65	25.33	27.0	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	25.37	25.55	25.37	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)	
40	QPSK	1	1	25.43	25.49	25.40	27.0	0.0	
Channel				647688	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	25.43	25.57	25.33	27.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	25.45	25.50	25.36	27.0	0.0	



Par270 n77 Ant 1 Full power									
BW [MHz]	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	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.43	19.57	19.39			
100	PI/2 BPSK	1	137	19.37	19.54	19.37	20.5	0.0	
100	PI/2 BPSK	1	271	19.43	19.66	19.41			
100	PI/2 BPSK	135	0	18.90	19.15	18.99	20.0	0.5	
100	PI/2 BPSK	135	69	19.46	19.60	19.47	20.5	0.0	
100	PI/2 BPSK	135	138	18.97	19.19	19.01			
100	PI/2 BPSK	270	0	19.06	19.22	19.06	20.0	0.5	
100	QPSK	1	1	19.45	19.68	19.42			
100	QPSK	1	137	19.39	19.62	19.39	20.5	0.0	
100	QPSK	1	271	19.38	19.63	19.49			
100	QPSK	135	0	18.46	18.64	18.42	19.5	1.0	
100	QPSK	135	69	19.40	19.63	19.47	20.5	0.0	
100	QPSK	135	138	18.40	18.64	18.39			
100	QPSK	270	0	18.36	18.61	18.44	19.5	1.0	
100	16QAM	1	1	18.90	18.76	18.52	19.5	1.0	
100	64QAM	1	1	16.95	17.14	16.88	18.0	2.5	
100	256QAM	1	1	15.03	15.26	15.11	16.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.32	19.55	19.26	20.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.32	19.52	19.34	20.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.32	19.52	19.27	20.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.30	19.52	19.27	20.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.30	19.51	19.33	20.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.38	19.51	19.36	20.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.28	19.56	19.25	20.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.30	19.57	19.32	20.5	0.0	

Par270 n77 HPUE Ant 1 Full power									
BW [MHz]	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	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.34	22.41	22.28			
100	PI/2 BPSK	1	137	22.25	22.41	22.31	23.5	0.0	
100	PI/2 BPSK	1	271	22.33	22.60	22.29			
100	PI/2 BPSK	135	0	21.84	22.04	21.93	23.0	0.5	
100	PI/2 BPSK	135	69	22.33	22.42	22.36	23.5	0.0	
100	PI/2 BPSK	135	138	21.87	22.15	21.89			
100	PI/2 BPSK	270	0	22.01	22.12	21.95	23.0	0.5	
100	QPSK	1	1	22.33	22.62	22.37			
100	QPSK	1	137	22.33	22.50	22.30	23.5	0.0	
100	QPSK	1	271	22.26	22.49	22.36			
100	QPSK	135	0	21.36	21.53	21.39	22.5	1.0	
100	QPSK	135	69	22.30	22.47	22.32	23.5	0.0	
100	QPSK	135	138	21.24	21.57	21.29			
100	QPSK	270	0	21.22	21.52	21.31	22.5	1.0	
100	16QAM	1	1	21.42	21.61	21.37	22.5	1.0	
100	64QAM	1	1	19.89	20.00	19.76	21.0	2.5	
100	256QAM	1	1	17.96	18.21	17.96	18.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.18	22.52	22.21	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.26	22.49	22.22	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.25	22.52	22.26	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.24	22.49	22.22	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.18	22.44	22.27	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.25	22.48	22.30	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.23	22.50	22.21	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.17	22.49	22.26	23.5	0.0	



Par270 n78 Ant 1 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	19.47					
100	PI/2 BPSK	1	137	19.45			20.5	0.0	
100	PI/2 BPSK	1	271	19.51					
100	PI/2 BPSK	135	0	19.03			20.0	0.5	
100	PI/2 BPSK	135	69	19.52			20.5	0.0	
100	PI/2 BPSK	135	138	19.07					
100	PI/2 BPSK	270	0	18.91			20.0	0.5	
100	QPSK	1	1	19.58					
100	QPSK	1	137	19.50			20.5	0.0	
100	QPSK	1	271	19.45					
100	QPSK	135	0	18.52			19.5	1.0	
100	QPSK	135	69	19.55			20.5	0.0	
100	QPSK	135	138	18.52					
100	QPSK	270	0	18.53			19.5	1.0	
100	16QAM	1	1	18.66			19.5	1.0	
100	64QAM	1	1	18.88			18.0	2.5	
100	256QAM	1	1	15.13			16.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.18	19.40	19.16	20.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.25	19.48	19.10	20.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.14	19.41	19.14	20.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.24	19.48	19.16	20.5	0.0	
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	19.22	19.41	19.12	20.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.19	19.48	19.19	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	19.24	19.40	19.14	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	19.22	19.46	19.11	20.5	0.0	

Par270 n78 HPUE Ant 1 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	22.27					
100	PI/2 BPSK	1	137	22.27			23.5	0.0	
100	PI/2 BPSK	1	271	22.50					
100	PI/2 BPSK	135	0	21.89			23.0	0.5	
100	PI/2 BPSK	135	69	22.30			23.5	0.0	
100	PI/2 BPSK	135	138	22.05					
100	PI/2 BPSK	270	0	21.77			23.0	0.5	
100	QPSK	1	1	22.55					
100	QPSK	1	137	22.35			23.5	0.0	
100	QPSK	1	271	22.39					
100	QPSK	135	0	21.46			22.5	1.0	
100	QPSK	135	69	22.38			23.5	0.0	
100	QPSK	135	138	21.47					
100	QPSK	270	0	21.36			22.5	1.0	
100	16QAM	1	1	21.44			22.5	1.0	
100	64QAM	1	1	18.84			21.0	2.5	
100	256QAM	1	1	13.11			13.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.11	22.40	22.09	23.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.11	22.35	22.07	23.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.08	22.38	22.14	23.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.05	22.42	22.10	23.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.07	22.35	22.11	23.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.02	22.37	22.10	23.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.03	22.44	22.07	23.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.08	22.45	22.05	23.5	0.0	



Par270 n77 Ant 2 Full power									
BW [MHz]	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	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.95	21.19	20.96			
100	PI/2 BPSK	1	137	20.96	21.21	20.97	22.5	0.0	
100	PI/2 BPSK	1	271	21.01	21.21	20.96			
100	PI/2 BPSK	135	0	20.60	20.82	20.65	22.0	0.5	
100	PI/2 BPSK	135	69	21.04	21.19	20.93	22.5	0.0	
100	PI/2 BPSK	135	138	20.49	20.73	20.53	22.0	0.5	
100	PI/2 BPSK	270	0	20.73	20.88	20.70			
100	QPSK	1	1	21.20	21.36	21.14			
100	QPSK	1	137	20.93	21.15	20.90	22.5	0.0	
100	QPSK	1	271	21.11	21.27	21.07			
100	QPSK	135	0	20.23	20.39	20.24	21.5	1.0	
100	QPSK	135	69	21.09	21.26	21.08	22.5	0.0	
100	QPSK	135	138	20.14	20.29	20.13	21.5	1.0	
100	QPSK	270	0	20.11	20.32	20.11			
100	16QAM	1	1	20.09	20.32	20.17	21.5	1.0	
100	64QAM	1	1	18.59	18.81	18.65	20.0	2.5	
100	256QAM	1	1	16.67	16.88	16.73	18.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.11	21.20	20.98	22.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.03	21.27	21.00	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.04	21.26	21.07	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.12	21.26	21.04	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.10	21.28	21.02	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.12	21.22	21.04	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.12	21.26	20.97	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.08	21.19	21.04	22.5	0.0	

Par270 n77 HPUE Ant 2 Full power									
BW [MHz]	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	23.88	24.03	23.91			
100	PI/2 BPSK	1	137	23.89	24.17	23.86	25.5	0.0	
100	PI/2 BPSK	1	271	23.97	24.08	23.90			
100	PI/2 BPSK	135	0	23.48	23.68	23.51	25.0	0.5	
100	PI/2 BPSK	135	69	23.96	24.14	23.83	25.5	0.0	
100	PI/2 BPSK	135	138	23.35	23.64	23.48	25.0	0.5	
100	PI/2 BPSK	270	0	23.60	23.76	23.58			
100	QPSK	1	1	24.09	24.25	23.99			
100	QPSK	1	137	23.81	24.07	23.84	25.5	0.0	
100	QPSK	1	271	23.99	24.18	24.02			
100	QPSK	135	0	23.12	23.24	23.09	24.5	1.0	
100	QPSK	135	69	23.95	24.16	24.03	25.5	0.0	
100	QPSK	135	138	23.04	23.22	23.04	24.5	1.0	
100	QPSK	270	0	23.03	23.23	23.02			
100	16QAM	1	1	23.03	23.28	23.11	24.5	1.0	
100	64QAM	1	1	21.47	21.72	21.56	23.0	2.5	
100	256QAM	1	1	19.61	19.84	19.59	21.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.99	24.15	23.86	25.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.96	24.17	23.82	25.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.98	24.10	23.84	25.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.02	24.08	23.86	25.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.95	24.11	23.91	25.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.94	24.15	23.83	25.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.97	24.10	23.81	25.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.97	24.16	23.86	25.5	0.0	



Par270 n78 Ant 2 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	21.08					
100	PI/2 BPSK	1	137	21.07			22.5	0.0	
100	PI/2 BPSK	1	271	21.07					
100	PI/2 BPSK	135	0	20.72			22.0	0.5	
100	PI/2 BPSK	135	69	21.07			22.5	0.0	
100	PI/2 BPSK	135	138	20.85					
100	PI/2 BPSK	270	0	20.77			22.0	0.5	
100	QPSK	1	1	21.21					
100	QPSK	1	137	21.03			22.5	0.0	
100	QPSK	1	271	21.11					
100	QPSK	135	0	20.21			21.5	1.0	
100	QPSK	135	69	21.15			22.5	0.0	
100	QPSK	135	138	20.11					
100	QPSK	270	0	20.17			21.5	1.0	
100	16QAM	1	1	20.20			21.5	1.0	
100	64QAM	1	1	18.73			20.0	2.5	
100	256QAM	1	1	16.78			18.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.93	21.06	20.86	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.02	21.12	20.83	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738	3750	3765			
70	QPSK	1	1	21.02	21.08	20.88	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.03	21.10	20.81	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.99	21.02	20.80	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.00	21.03	20.86	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.05	21.06	20.92	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.98	21.10	20.89	22.5	0.0	

Par270 n78 HPUE Ant 2 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	23.91					
100	PI/2 BPSK	1	137	24.08			25.5	0.0	
100	PI/2 BPSK	1	271	23.99					
100	PI/2 BPSK	135	0	23.55			25.0	0.5	
100	PI/2 BPSK	135	69	23.97			25.5	0.0	
100	PI/2 BPSK	135	138	23.40					
100	PI/2 BPSK	270	0	23.67			25.0	0.5	
100	QPSK	1	1	24.16					
100	QPSK	1	137	23.98			25.5	0.0	
100	QPSK	1	271	24.05					
100	QPSK	135	0	23.15			24.5	1.0	
100	QPSK	135	69	23.99			25.5	0.0	
100	QPSK	135	138	23.16			24.5	1.0	
100	QPSK	270	0	23.15			24.5	1.0	
100	16QAM	1	1	23.13			24.5	1.0	
100	64QAM	1	1	21.57			23.0	2.5	
100	256QAM	1	1	19.75			21.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.86	23.98	23.72	25.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.82	24.09	23.77	25.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738	3750	3765			
70	QPSK	1	1	23.91	24.04	23.77	25.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	23.83	24.08	23.78	25.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.85	23.98	23.70	25.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.89	24.02	23.78	25.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	23.85	23.89	23.78	25.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.91	24.00	23.79	25.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	658000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.14	19.32	19.07		
100	PI/2 BPSK	1	137	19.14	19.33	19.09	20.5	0.0
100	PI/2 BPSK	1	271	19.17	19.34	19.19		
100	PI/2 BPSK	135	0	18.78	18.93	18.67	20.0	0.5
100	PI/2 BPSK	135	69	19.10	19.26	19.05	20.5	0.0
100	PI/2 BPSK	135	138	18.85	19.03	18.80	20.0	0.5
100	PI/2 BPSK	270	0	18.82	18.96	18.79		
100	QPSK	1	1	19.29	19.44	19.19		
100	QPSK	1	137	19.14	19.31	19.12	20.5	0.0
100	QPSK	1	271	19.02	19.24	18.99		
100	QPSK	135	0	18.17	18.38	18.16	19.5	1.0
100	QPSK	135	69	19.16	19.35	19.18	20.5	0.0
100	QPSK	135	138	18.31	18.45	18.24		
100	QPSK	270	0	18.22	18.38	18.18	19.5	1.0
100	16QAM	1	1	18.21	18.39	18.20	19.5	1.0
100	64QAM	1	1	16.67	16.88	16.72	18.0	2.5
100	256QAM	1	1	14.69	14.87	14.63	16.0	4.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.16	19.38	19.02	20.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.19	19.30	19.11	20.5	0.0
Channel				649300	656000	663300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.14	19.32	19.09	20.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.20	19.30	19.03	20.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.18	19.37	19.12	20.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.12	19.38	19.02	20.5	0.0
Channel				647968	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.13	19.28	19.05	20.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.14	19.28	19.08	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.09	22.23	21.93		
100	PI/2 BPSK	1	137	22.02	22.25	22.03	23.5	0.0
100	PI/2 BPSK	1	271	22.12	22.22	22.13		
100	PI/2 BPSK	135	0	21.62	21.80	21.56	23.0	0.5
100	PI/2 BPSK	135	69	22.01	22.14	22.00	23.5	0.0
100	PI/2 BPSK	135	138	21.77	21.97	21.75	23.0	0.5
100	PI/2 BPSK	270	0	21.70	21.85	21.70		
100	QPSK	1	1	22.23	22.33	22.11		
100	QPSK	1	137	22.04	22.27	22.04	23.5	0.0
100	QPSK	1	271	21.92	22.19	21.88		
100	QPSK	135	0	21.02	21.26	21.07	22.5	1.0
100	QPSK	135	69	22.07	22.31	22.12	23.5	0.0
100	QPSK	135	138	21.21	21.37	21.16		
100	QPSK	270	0	21.08	21.22	21.14	22.5	1.0
100	16QAM	1	1	21.16	21.32	21.14	22.5	1.0
100	64QAM	1	1	19.58	19.79	19.61	21.0	2.5
100	256QAM	1	1	17.54	17.74	17.57	18.0	4.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.09	22.17	21.97	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.16	22.26	22.01	23.5	0.0
Channel				649300	656000	663300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.05	22.24	22.03	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.09	22.22	22.04	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.15	22.27	22.04	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.14	22.26	21.94	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.16	22.19	22.00	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.13	22.20	22.00	23.5	0.0



Par270 n78 Ant 8 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	19.21					
100	PI/2 BPSK	1	137	19.16			20.5	0.0	
100	PI/2 BPSK	1	271	19.17					
100	PI/2 BPSK	135	0	18.77			20.0	0.5	
100	PI/2 BPSK	135	138	18.86			20.5	0.0	
100	PI/2 BPSK	270	0	18.80			20.0	0.5	
100	QPSK	1	1	19.34					
100	QPSK	1	137	19.23			20.5	0.0	
100	QPSK	1	271	19.10					
100	QPSK	135	0	18.21			19.5	1.0	
100	QPSK	135	69	19.18			20.5	0.0	
100	QPSK	135	138	18.36					
100	QPSK	270	0	18.31			19.5	1.0	
100	16QAM	1	1	18.28			19.5	1.0	
100	64QAM	1	1	16.76			18.0	2.5	
100	256QAM	1	1	14.50			16.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.07	19.31	18.92	20.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.03	19.23	18.84	20.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.05	19.30	18.85	20.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.00	19.24	18.95	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.98	19.22	18.91	20.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.05	19.27	18.90	20.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	19.02	19.29	18.95	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	19.00	19.31	18.86	20.5	0.0	

Par270 n78 HPUE Ant 8 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	22.08					
100	PI/2 BPSK	1	137	22.14			23.5	0.0	
100	PI/2 BPSK	1	271	22.10					
100	PI/2 BPSK	135	0	21.72			23.0	0.5	
100	PI/2 BPSK	135	69	22.01			23.5	0.0	
100	PI/2 BPSK	135	138	21.80			23.0	0.5	
100	PI/2 BPSK	270	0	21.73					
100	QPSK	1	1	22.18					
100	QPSK	1	137	22.10			23.5	0.0	
100	QPSK	1	271	22.10					
100	QPSK	135	0	21.20			22.5	1.0	
100	QPSK	135	69	22.18			23.5	0.0	
100	QPSK	135	138	21.23			22.5	1.0	
100	QPSK	270	0	21.16					
100	16QAM	1	1	21.14			22.5	1.0	
100	64QAM	1	1	18.64			21.0	2.5	
100	256QAM	1	1	17.61			19.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.02	22.03	21.89	23.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.97	22.03	21.87	23.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.93	22.11	21.81	23.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	21.99	22.04	21.85	23.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.97	22.11	21.79	23.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.99	22.09	21.86	23.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	21.92	22.00	21.91	23.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.95	22.05	21.83	23.5	0.0	



Reduced Power Mode for DSI2

Par270 n77 Ant 5 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 655000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	16.29	16.44	16.30			
100	PI/2 BPSK	1	137	16.27	16.40	16.30		0.0	
100	PI/2 BPSK	135	0	16.27	16.44	16.38	17.7	0.0	
100	PI/2 BPSK	135	69	16.25	16.40	16.38	17.7	0.0	
100	PI/2 BPSK	135	138	16.25	16.39	16.30	17.7	0.0	
100	PI/2 BPSK	270	0	16.31	16.47	16.30	17.7	0.0	
100	QPSK	1	1	16.37	16.55	16.43			
100	QPSK	1	137	16.22	16.43	16.30	17.7	0.0	
100	QPSK	1	271	16.25	16.45	16.39			
100	QPSK	135	0	16.22	16.38	16.34	17.7	0.0	
100	QPSK	135	69	16.26	16.47	16.29	17.7	0.0	
100	QPSK	135	138	16.23	16.40	16.29	17.7	0.0	
100	QPSK	270	0	16.28	16.45	16.35			
100	16QAM	1	1	16.22	16.44	16.36	17.7	0.0	
100	64QAM	1	1	16.22	16.44	16.36	17.7	0.0	
100	256QAM	1	1	16.22	16.44	16.36	17.7	0.0	
Channel				649688	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	16.14	16.24	16.25	17.7	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3745.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	16.15	16.31	16.19	17.7	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	16.07	16.24	16.18	17.7	0.0	
Channel				648688	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3723.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	16.10	16.23	16.18	17.7	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	16.10	16.27	16.22	17.7	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)	
40	QPSK	1	1	16.08	16.23	16.19	17.7	0.0	
Channel				647688	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	16.08	16.26	16.24	17.7	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	16.13	16.32	16.18	17.7	0.0	

Par270 n77 HPUE Ant 5 DSI 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 655000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.18	19.41	19.21			
100	PI/2 BPSK	1	137	19.13	19.35	19.28	20.7	0.0	
100	PI/2 BPSK	1	271	19.20	19.29	19.23			
100	PI/2 BPSK	135	0	19.19	19.35	19.29	20.7	0.0	
100	PI/2 BPSK	135	69	19.10	19.35	19.22	20.7	0.0	
100	PI/2 BPSK	135	138	19.14	19.39	19.30	20.7	0.0	
100	PI/2 BPSK	270	0	19.15	19.36	19.22			
100	QPSK	1	1	19.26	19.45	19.35			
100	QPSK	1	137	19.11	19.30	19.31	20.7	0.0	
100	QPSK	1	271	19.15	19.30	19.23			
100	QPSK	135	0	19.19	19.40	19.23	20.7	0.0	
100	QPSK	135	69	19.14	19.41	19.24	20.7	0.0	
100	QPSK	135	138	19.19	19.31	19.21	20.7	0.0	
100	QPSK	270	0	19.15	19.38	19.22			
100	16QAM	1	1	19.18	19.32	19.28	20.7	0.0	
100	64QAM	1	1	19.21	19.38	19.24	20.7	0.0	
100	256QAM	1	1	19.21	19.39	19.28	20.7	0.0	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	19.10	19.32	19.23	20.7	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.21	19.31	19.27	20.7	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	19.21	19.33	19.29	20.7	0.0	
Channel				648688	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	19.17	19.35	19.23	20.7	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	19.16	19.30	19.31	20.7	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)	
40	QPSK	1	1	19.15	19.35	19.26	20.7	0.0	
Channel				647688	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	19.17	19.29	19.19	20.7	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	19.14	19.33	19.20	20.7	0.0	



Par270 n78 Ant 5 DSI 2

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel		650000			
Frequency (MHz)		3750			
100 Pi/2 BPSK 1 1	16.35				
100 Pi/2 BPSK 1 137	16.36				0.0
100 Pi/2 BPSK 1 271	16.35				
100 Pi/2 BPSK 135 0	16.29			17.7	0.0
100 Pi/2 BPSK 135 69	16.33			17.7	0.0
100 Pi/2 BPSK 135 138	16.30			17.7	0.0
100 Pi/2 BPSK 270 0	16.33			17.7	0.0
100 QPSK 1 1	16.45				
100 QPSK 1 137	16.35				0.0
100 QPSK 1 271	16.36				
100 QPSK 135 0	16.27			17.7	0.0
100 QPSK 135 69	16.34			17.7	0.0
100 QPSK 135 138	16.29			17.7	0.0
100 QPSK 270 0	16.33			17.7	0.0
100 16QAM 1 1	16.26			17.7	0.0
100 16QAM 1 1	16.30			17.7	0.0
100 256QAM 1 1	16.33			17.7	0.0
Channel	649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3745.02	3750	3755.01		
90 QPSK 1 1 1	16.02	16.15	16.16	17.7	0.0
Channel	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3740.01	3750	3760.02		
80 QPSK 1 1 1	16.04	16.18	16.11	17.7	0.0
Channel	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3735	3750	3765		
70 QPSK 1 1 1	16.02	16.20	16.13	17.7	0.0
Channel	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3730.02	3750	3770.01		
60 QPSK 1 1 1	16.00	16.15	16.18	17.7	0.0
Channel	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3725.01	3750	3775.02		
50 QPSK 1 1 1	16.03	16.14	16.19	17.7	0.0
Channel	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3720	3750	3760		
40 QPSK 1 1 1	16.06	16.19	16.10	17.7	0.0
Channel	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3715.02	3750	3785.01		
30 QPSK 1 1 1	15.99	16.17	16.22	17.7	0.0
Channel	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3710.01	3750	3790.02		
20 QPSK 1 1 1	16.03	16.18	16.14	17.7	0.0

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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel		650000			
Frequency (MHz)		3750			
100 Pi/2 BPSK 1 1	19.36				
100 Pi/2 BPSK 1 137	19.22				20.7
100 Pi/2 BPSK 1 271	19.19				
100 Pi/2 BPSK 135 0	19.31			17.7	0.0
100 Pi/2 BPSK 135 69	19.22			17.7	0.0
100 Pi/2 BPSK 135 138	19.32			17.7	0.0
100 Pi/2 BPSK 270 0	19.25			17.7	0.0
100 QPSK 1 1	19.36				
100 QPSK 1 137	19.19				20.7
100 QPSK 1 271	19.23				
100 QPSK 135 0	19.33			17.7	0.0
100 QPSK 135 69	19.34			17.7	0.0
100 QPSK 135 138	19.17			17.7	0.0
100 QPSK 270 0	19.26			17.7	0.0
100 16QAM 1 1	19.21			17.7	0.0
100 16QAM 1 1	19.34			17.7	0.0
100 256QAM 1 1	19.25			17.7	0.0
Channel	649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3745.02	3750	3755.01		
90 QPSK 1 1 1	19.05	19.23	19.18	20.7	0.0
Channel	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3740.01	3750	3760.02		
80 QPSK 1 1 1	18.96	19.22	19.16	20.7	0.0
Channel	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3735	3750	3765		
70 QPSK 1 1 1	19.02	19.19	19.09	20.7	0.0
Channel	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3730.02	3750	3770.01		
60 QPSK 1 1 1	19.03	19.25	19.19	20.7	0.0
Channel	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3725.01	3750	3775.02		
50 QPSK 1 1 1	18.96	19.20	19.14	20.7	0.0
Channel	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3720	3750	3760		
40 QPSK 1 1 1	19.04	19.19	19.09	20.7	0.0
Channel	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3715.02	3750	3785.01		
30 QPSK 1 1 1	19.03	19.22	19.17	20.7	0.0
Channel	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	3710.01	3750	3790.02		
20 QPSK 1 1 1	18.99	19.23	19.11	20.7	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	658000	662000		
				3750	3840	3930		
100	PI/2 BPSK	1	1	19.43	19.57	19.39		
100	PI/2 BPSK	1	137	19.37	19.54	19.37	20.5	0.0
100	PI/2 BPSK	1	271	19.43	19.66	19.41		
100	PI/2 BPSK	135	0	18.90	18.15	18.99	20.0	0.5
100	PI/2 BPSK	135	69	19.46	19.60	19.47	20.5	0.0
100	PI/2 BPSK	135	138	18.97	19.19	19.01		
100	PI/2 BPSK	270	0	19.06	19.22	19.06	20.0	0.5
100	QPSK	1	1	19.45	19.68	19.42		
100	QPSK	1	137	19.39	19.62	19.39	20.5	0.0
100	QPSK	1	271	19.38	19.63	19.49		
100	QPSK	135	0	18.46	18.54	18.42	19.5	1.0
100	QPSK	135	69	19.40	19.63	19.47	20.5	0.0
100	QPSK	135	138	18.40	18.64	18.39		
100	QPSK	270	0	18.36	18.61	18.44	19.5	1.0
100	16QAM	1	1	18.90	18.76	18.52	19.5	1.0
100	64QAM	1	1	16.95	17.14	16.88	18.0	2.5
100	256QAM	1	1	15.03	15.26	15.11	16.0	4.5
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.21	18.46	18.20	20.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.23	18.43	18.19	20.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.27	18.42	18.27	20.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.23	18.43	18.27	20.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.27	18.39	18.25	20.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.22	18.39	18.21	20.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.28	18.39	18.23	20.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.20	18.39	18.25	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000	658000	662000		
				3750	3840	3930		
100	PI/2 BPSK	1	1	22.34	22.41	22.28		
100	PI/2 BPSK	1	137	22.25	22.41	22.31	23.5	0.0
100	PI/2 BPSK	1	271	22.33	22.60	22.29		
100	PI/2 BPSK	135	0	21.84	22.04	21.93	23.0	0.5
100	PI/2 BPSK	135	69	22.33	22.42	22.36	23.5	0.0
100	PI/2 BPSK	135	138	21.87	22.15	21.88		
100	PI/2 BPSK	270	0	22.01	22.12	21.95	23.0	0.5
100	QPSK	1	1	22.33	22.62	22.37		
100	QPSK	1	137	22.33	22.50	22.30	23.5	0.0
100	QPSK	1	271	22.26	22.49	22.36		
100	QPSK	135	0	21.35	21.53	21.35	22.5	1.0
100	QPSK	135	69	22.30	22.47	22.32	23.5	0.0
100	QPSK	135	138	21.24	21.57	21.29		
100	QPSK	270	0	21.22	21.62	21.31	22.5	1.0
100	16QAM	1	1	21.42	21.61	21.37	22.5	1.0
100	64QAM	1	1	19.89	20.00	19.76	21.0	2.5
100	256QAM	1	1	17.96	18.21	17.96	18.0	4.5
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.09	21.36	21.09	23.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.01	21.33	21.06	23.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.06	21.34	21.06	23.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.96	21.32	21.14	23.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.09	21.34	21.11	23.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.07	21.32	21.12	23.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.04	21.41	21.12	23.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.00	21.37	21.13	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.47				
100	PI/2 BPSK	1	137	19.45			20.5	0.0
100	PI/2 BPSK	1	271	19.51				
100	PI/2 BPSK	135	0	19.03			20.0	0.5
100	PI/2 BPSK	135	69	19.52			20.5	0.0
100	PI/2 BPSK	135	138	19.07				
100	PI/2 BPSK	270	0	18.91			20.0	0.5
100	QPSK	1	1	19.58				
100	QPSK	1	137	19.50			20.5	0.0
100	QPSK	1	271	19.45				
100	QPSK	135	0	18.52			19.5	1.0
100	QPSK	135	69	19.55			20.5	0.0
100	QPSK	135	138	18.52				
100	QPSK	270	0	18.53			19.5	1.0
100	16QAM	1	1	18.66			19.5	1.0
100	64QAM	1	1	18.88			18.0	2.5
100	256QAM	1	1	15.13			16.0	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.18	19.40	19.16	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.25	19.48	19.10	20.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.14	19.41	19.14	20.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.24	19.48	19.16	20.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.22	19.41	19.12	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.19	19.48	19.19	20.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.24	19.40	19.14	20.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.22	19.46	19.11	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.27				
100	PI/2 BPSK	1	137	22.27			23.5	0.0
100	PI/2 BPSK	1	271	22.50				
100	PI/2 BPSK	135	0	21.89			23.0	0.5
100	PI/2 BPSK	135	69	22.30			23.5	0.0
100	PI/2 BPSK	135	138	22.05				
100	PI/2 BPSK	270	0	21.77			23.0	0.5
100	QPSK	1	1	22.55				
100	QPSK	1	137	22.35			23.5	0.0
100	QPSK	1	271	22.39				
100	QPSK	135	0	21.46			22.5	1.0
100	QPSK	135	69	22.38			23.5	0.0
100	QPSK	135	138	21.47				
100	QPSK	270	0	21.36			22.5	1.0
100	16QAM	1	1	21.44			22.5	1.0
100	64QAM	1	1	18.84			21.0	2.5
100	256QAM	1	1	13.11			13.0	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.11	22.40	22.09	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.11	22.35	22.07	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.08	22.38	22.14	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.05	22.42	22.10	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.07	22.35	22.11	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.02	22.37	22.10	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.03	22.44	22.07	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.08	22.45	22.05	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.95	21.19	20.96		
100	PI/2 BPSK	1	137	20.96	21.21	20.97	22.5	0.0
100	PI/2 BPSK	1	271	21.01	21.21	20.96		
100	PI/2 BPSK	135	0	20.60	20.82	20.65	22.0	0.5
100	PI/2 BPSK	135	69	21.04	21.19	20.93	22.5	0.0
100	PI/2 BPSK	135	138	20.49	20.73	20.53	22.0	0.5
100	PI/2 BPSK	270	0	20.73	20.88	20.70		
100	QPSK	1	1	21.20	21.36	21.14		
100	QPSK	1	137	20.93	21.15	20.90	22.5	0.0
100	QPSK	1	271	21.11	21.27	21.07		
100	QPSK	135	0	20.23	20.39	20.24	21.5	1.0
100	QPSK	135	69	21.09	21.26	21.06	22.5	0.0
100	QPSK	135	138	20.14	20.29	20.13	21.5	1.0
100	QPSK	270	0	20.11	20.32	20.11		
100	16QAM	1	1	20.09	20.32	20.17	21.5	1.0
100	64QAM	1	1	18.59	18.81	18.65	20.0	2.5
100	256QAM	1	1	16.67	16.88	16.73	18.0	4.5
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.98	20.11	19.98	22.5	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.94	20.07	19.62	22.5	0.0
Channel				649300	650000	663300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.91	20.12	19.97	22.5	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.95	20.07	19.63	22.5	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.88	20.11	19.90	22.5	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.91	20.13	19.94	22.5	0.0
Channel				647968	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.89	20.08	19.92	22.5	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.91	20.04	19.92	22.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				65000	65000	66000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.88	24.03	23.91		
100	PI/2 BPSK	1	137	23.89	24.17	23.86	25.5	0.0
100	PI/2 BPSK	1	271	23.97	24.08	23.90		
100	PI/2 BPSK	135	0	23.48	23.68	23.51	25.0	0.5
100	PI/2 BPSK	135	69	23.96	24.14	23.83	25.5	0.0
100	PI/2 BPSK	135	138	23.35	23.64	23.48	25.0	0.5
100	PI/2 BPSK	270	0	23.60	23.76	23.58		
100	QPSK	1	1	24.09	24.25	23.99		
100	QPSK	1	137	23.81	24.07	23.84	25.5	0.0
100	QPSK	1	271	23.99	24.18	24.02		
100	QPSK	135	0	23.12	23.24	23.09	24.5	1.0
100	QPSK	135	69	23.95	24.16	24.03	25.5	0.0
100	QPSK	135	138	23.04	23.22	23.04	24.5	1.0
100	QPSK	270	0	23.03	23.23	23.02		
100	16QAM	1	1	23.03	23.28	23.11	24.5	1.0
100	64QAM	1	1	21.47	21.72	21.56	23.0	2.5
100	256QAM	1	1	19.61	19.84	19.59	21.0	4.5
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.79	23.01	22.89	25.5	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.80	22.99	22.89	25.5	0.0
Channel				649300	650000	663300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.79	23.06	22.87	25.5	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.76	23.00	22.89	25.5	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.81	22.98	22.88	25.5	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.84	22.99	22.79	25.5	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.89	23.07	22.83	25.5	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.83	23.04	22.88	25.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	21.08					
100	PI/2 BPSK	1	137	21.07			22.5	0.0	
100	PI/2 BPSK	1	271	21.07					
100	PI/2 BPSK	135	0	20.72			22.0	0.5	
100	PI/2 BPSK	135	69	21.07			22.5	0.0	
100	PI/2 BPSK	135	138	20.85					
100	PI/2 BPSK	270	0	20.77			22.0	0.5	
100	QPSK	1	1	21.21					
100	QPSK	1	137	21.03			22.5	0.0	
100	QPSK	1	271	21.11					
100	QPSK	135	0	20.21			21.5	1.0	
100	QPSK	135	69	21.15			22.5	0.0	
100	QPSK	135	138	20.11					
100	QPSK	270	0	20.17			21.5	1.0	
100	16QAM	1	1	20.20			21.5	1.0	
100	64QAM	1	1	18.73			20.0	2.5	
100	256QAM	1	1	16.78			18.0	4.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	20.93	21.06	20.86	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	21.02	21.12	20.83	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3738	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	21.02	21.08	20.88	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	21.03	21.10	20.81	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	20.99	21.02	20.80	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	21.00	21.03	20.86	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	21.05	21.06	20.92	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	20.98	21.10	20.89	22.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	23.91					
100	PI/2 BPSK	1	137	24.08			25.5	0.0	
100	PI/2 BPSK	1	271	23.98					
100	PI/2 BPSK	135	0	23.55			25.0	0.5	
100	PI/2 BPSK	135	69	23.97			25.5	0.0	
100	PI/2 BPSK	135	138	23.40					
100	PI/2 BPSK	270	0	23.67			25.0	0.5	
100	QPSK	1	1	24.16					
100	QPSK	1	137	23.98			25.5	0.0	
100	QPSK	1	271	24.05					
100	QPSK	135	0	23.15			24.5	1.0	
100	QPSK	135	69	23.99			25.5	0.0	
100	QPSK	135	138	23.16					
100	QPSK	270	0	23.15			24.5	1.0	
100	16QAM	1	1	23.13			24.5	1.0	
100	64QAM	1	1	21.57			23.0	2.5	
100	256QAM	1	1	19.75			21.0	4.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	23.86	23.98	23.72	25.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	23.82	24.00	23.77	25.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3738	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	23.91	24.04	23.77	25.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	23.83	24.08	23.78	25.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	23.85	23.98	23.70	25.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	23.89	24.02	23.78	25.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	23.85	23.99	23.78	25.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	23.91	24.00	23.79	25.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	658000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.14	19.32	19.07		
100	PI/2 BPSK	1	137	19.14	19.33	19.09	20.5	0.0
100	PI/2 BPSK	1	271	19.17	19.34	19.19		
100	PI/2 BPSK	135	0	18.78	18.93	18.67	20.0	0.5
100	PI/2 BPSK	135	69	19.10	19.26	19.05	20.5	0.0
100	PI/2 BPSK	135	138	18.85	19.03	18.80	20.0	0.5
100	PI/2 BPSK	270	0	18.82	18.96	18.79		
100	QPSK	1	1	19.29	19.44	19.19		
100	QPSK	1	137	19.14	19.31	19.12	20.5	0.0
100	QPSK	1	271	19.02	19.24	18.99		
100	QPSK	135	0	18.17	18.38	18.16	19.5	1.0
100	QPSK	135	69	19.16	19.35	19.18	20.5	0.0
100	QPSK	135	138	18.31	18.45	18.24		
100	QPSK	270	0	18.22	18.38	18.18	19.5	1.0
100	16QAM	1	1	18.21	18.39	18.20	19.5	1.0
100	64QAM	1	1	16.67	16.88	16.72	18.0	2.5
100	256QAM	1	1	14.69	14.87	14.63	16.0	4.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.11	18.27	18.01	20.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.08	18.20	18.06	20.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.14	18.23	18.08	20.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.17	18.30	18.07	20.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.13	18.20	18.08	20.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.13	18.21	18.02	20.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.08	18.26	18.08	20.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.15	18.25	18.10	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.09	22.23	21.93		
100	PI/2 BPSK	1	137	22.02	22.25	22.03	23.5	0.0
100	PI/2 BPSK	1	271	22.12	22.22	22.13		
100	PI/2 BPSK	135	0	21.62	21.80	21.56	23.0	0.5
100	PI/2 BPSK	135	69	22.01	22.14	22.06	23.5	0.0
100	PI/2 BPSK	135	138	21.77	21.97	21.75	23.0	0.5
100	PI/2 BPSK	270	0	21.70	21.85	21.70		
100	QPSK	1	1	22.23	22.33	22.11		
100	QPSK	1	137	22.04	22.27	22.04	23.5	0.0
100	QPSK	1	271	21.92	22.19	21.88		
100	QPSK	135	0	21.02	21.26	21.07	22.5	1.0
100	QPSK	135	69	22.07	22.31	22.12	23.5	0.0
100	QPSK	135	138	21.21	21.37	21.16		
100	QPSK	270	0	21.08	21.22	21.14	22.5	1.0
100	16QAM	1	1	21.16	21.32	21.14	22.5	1.0
100	64QAM	1	1	19.58	19.79	19.61	21.0	2.5
100	256QAM	1	1	17.54	17.74	17.57	18.0	4.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.01	21.12	20.91	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.06	21.22	20.96	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.97	21.16	20.95	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.04	21.22	20.99	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.04	21.12	20.92	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.97	21.17	21.01	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.99	21.16	20.99	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.04	21.20	21.02	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				65000				
100	PI/2 BPSK	1	1	19.21				
100	PI/2 BPSK	1	137	19.16			20.5	0.0
100	PI/2 BPSK	1	271	19.17				
100	PI/2 BPSK	135	0	18.77			20.0	0.5
100	PI/2 BPSK	135	138	18.86			20.5	0.0
100	PI/2 BPSK	270	0	18.80			20.0	0.5
100	QPSK	1	1	19.34				
100	QPSK	1	137	19.23			20.5	0.0
100	QPSK	1	271	19.10				
100	QPSK	135	0	18.21			19.5	1.0
100	QPSK	135	69	19.18			20.5	0.0
100	QPSK	135	138	18.36				
100	QPSK	270	0	18.31			19.5	1.0
100	16QAM	1	1	18.28			19.5	1.0
100	64QAM	1	1	16.76			18.0	2.5
100	256QAM	1	1	14.50			16.0	4.5
Channel								
Frequency (MHz)								
				649668	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	19.07	19.31	18.92	20.5	0.0
Channel								
Frequency (MHz)								
				649334	650000	650668	Tune-up limit	MPR
				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	19.03	19.23	18.84	20.5	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	19.05	19.30	18.85	20.5	0.0
Channel								
Frequency (MHz)								
				648668	650000	651334	Tune-up limit	MPR
				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	19.00	19.24	18.95	20.5	0.0
Channel								
Frequency (MHz)								
				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	18.98	19.22	18.91	20.5	0.0
Channel								
Frequency (MHz)								
				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	19.05	19.27	18.90	20.5	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit	MPR
				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	19.02	19.29	18.95	20.5	0.0
Channel								
Frequency (MHz)								
				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	19.00	19.31	18.86	20.5	0.0

Par270 n78 HPUE Ant 8 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								
Frequency (MHz)								
				65000				
100	PI/2 BPSK	1	1	22.08				
100	PI/2 BPSK	1	137	22.14			23.5	0.0
100	PI/2 BPSK	1	271	22.10				
100	PI/2 BPSK	135	0	21.72			23.0	0.5
100	PI/2 BPSK	135	69	22.01			23.5	0.0
100	PI/2 BPSK	135	138	21.80			23.0	0.5
100	PI/2 BPSK	270	0	21.73				
100	QPSK	1	1	22.18				
100	QPSK	1	137	22.10			23.5	0.0
100	QPSK	1	271	22.10				
100	QPSK	135	0	21.20			22.5	1.0
100	QPSK	135	69	22.18			23.5	0.0
100	QPSK	135	138	21.23			22.5	1.0
100	QPSK	270	0	21.16				
100	16QAM	1	1	21.14			22.5	1.0
100	64QAM	1	1	18.64			21.0	2.5
100	256QAM	1	1	17.61			19.0	4.5
Channel								
Frequency (MHz)								
				649668	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	22.02	22.03	21.89	23.5	0.0
Channel								
Frequency (MHz)								
				649334	650000	650668	Tune-up limit	MPR
				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	21.97	22.03	21.87	23.5	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	21.93	22.11	21.81	23.5	0.0
Channel								
Frequency (MHz)								
				648668	650000	651334	Tune-up limit	MPR
				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	21.99	22.04	21.85	23.5	0.0
Channel								
Frequency (MHz)								
				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	21.97	22.11	21.79	23.5	0.0
Channel								
Frequency (MHz)								
				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	21.99	22.09	21.86	23.5	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit	MPR
				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	21.92	22.00	21.91	23.5	0.0
Channel								
Frequency (MHz)								
				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	21.95	22.05	21.83	23.5	0.0



Reduced Power Mode for DSI3

Par270 n77 Ant 5 DSI 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				550000	550000	552000				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	17.28	17.47	17.30	18.3	0.0		
100	PI/2 BPSK	1	137	17.27	17.34	17.28				
100	PI/2 BPSK	1	271	17.26	17.42	17.42				
100	PI/2 BPSK	135	0	17.27	17.38	17.41	18.3	0.0		
100	PI/2 BPSK	135	69	17.27	17.42	17.37	18.3	0.0		
100	PI/2 BPSK	135	138	17.31	17.36	17.26	18.3	0.0		
100	PI/2 BPSK	270	0	17.29	17.44	17.25				
100	QPSK	1	1	17.38	17.54	17.45				
100	QPSK	1	137	17.23	17.43	17.31	18.3	0.0		
100	QPSK	1	271	17.27	17.47	17.42	18.3	0.0		
100	QPSK	135	0	17.27	17.36	17.36				
100	QPSK	135	69	17.25	17.43	17.25				
100	QPSK	135	138	17.26	17.42	17.31	18.3	0.0		
100	QPSK	270	0	17.27	17.41	17.36				
100	16QAM	1	1	17.23	17.36	17.22				
100	64QAM	1	1	17.22	17.45	17.41	18.3	0.0		
100	256QAM	1	1	17.28	17.46	17.33	18.3	0.0		
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	17.12	17.36	17.30	18.3	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3748.01	3840	3940.02				
80	QPSK	1	1	17.18	17.38	17.25	18.3	0.0		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	17.13	17.38	17.33	18.3	0.0		
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.02	3840	3950.01				
60	QPSK	1	1	17.19	17.38	17.29	18.3	0.0		
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	17.12	17.35	17.32	18.3	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3950				
40	QPSK	1	1	17.16	17.36	17.22	18.3	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	17.19	17.35	17.23	18.3	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	17.15	17.35	17.22	18.3	0.0		

Par270 n77 HPUE Ant 5 DSI 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				650000	650000	652000				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	20.14	20.44	20.19	21.3	0.0		
100	PI/2 BPSK	1	137	20.11	20.37	20.25				
100	PI/2 BPSK	1	271	20.21	20.23	20.22				
100	PI/2 BPSK	135	0	20.24	20.34	20.27	21.3	0.0		
100	PI/2 BPSK	135	69	20.09	20.37	20.27	21.3	0.0		
100	PI/2 BPSK	135	138	20.20	20.42	20.33	21.3	0.0		
100	PI/2 BPSK	270	0	20.20	20.35	20.26				
100	QPSK	1	1	20.22	20.47	20.36				
100	QPSK	1	137	20.13	20.24	20.32	21.3	0.0		
100	QPSK	1	271	20.18	20.26	20.23	21.3	0.0		
100	QPSK	135	0	20.21	20.40	20.28				
100	QPSK	135	69	20.09	20.45	20.20				
100	QPSK	135	138	20.21	20.31	20.22	21.3	0.0		
100	QPSK	270	0	20.14	20.43	20.26	21.3	0.0		
100	16QAM	1	1	20.20	20.32	20.24				
100	64QAM	1	1	20.17	20.34	20.26				
100	256QAM	1	1	20.24	20.43	20.22	21.3	0.0		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	20.08	20.20	20.13	21.3	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3748.01	3840	3940.02				
80	QPSK	1	1	20.05	20.24	20.19	21.3	0.0		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	20.04	20.19	20.14	21.3	0.0		
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.02	3840	3950.01				
60	QPSK	1	1	20.09	20.30	20.18	21.3	0.0		
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	20.06	20.24	20.16	21.3	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3950				
40	QPSK	1	1	19.98	20.26	20.13	21.3	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	20.07	20.25	20.18	21.3	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	20.03	20.19	20.17	21.3	0.0		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750				
100	Pi/2 BPSK	1	1	17.38							
100	Pi/2 BPSK	1	137	17.19			18.3	0.0			
100	Pi/2 BPSK	1	271	17.33							
100	Pi/2 BPSK	135	0	17.22			18.3	0.0			
100	Pi/2 BPSK	135	69	17.27			18.3	0.0			
100	Pi/2 BPSK	135	138	17.20							
100	Pi/2 BPSK	270	0	17.34			18.3	0.0			
100	QPSK	1	1	17.42							
100	QPSK	1	137	17.24			18.3	0.0			
100	QPSK	1	271	17.34							
100	QPSK	135	0	17.22			18.3	0.0			
100	QPSK	135	69	17.35			18.3	0.0			
100	QPSK	135	138	17.28							
100	QPSK	270	0	17.23			18.3	0.0			
100	16QAM	1	1	17.27			18.3	0.0			
100	64QAM	1	1	17.34			18.3	0.0			
100	256QAM	1	1	17.32			18.3	0.0			
Channel							649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3745.02	3750	3755.01		
90	QPSK	1	1	17.00	17.27	17.20	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	16.95	17.22	17.13	24.0	0.0			
Channel							649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3735	3750	3765		
70	QPSK	1	1	16.97	17.29	17.19	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	17.04	17.20	17.16	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	17.05	17.21	17.16	24.0	0.0			
Channel							648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3720	3750	3760		
40	QPSK	1	1	16.95	17.24	17.13	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	16.97	17.18	17.18	24.0	0.0			
Channel							647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3710.01	3750	3760.02		
20	QPSK	1	1	16.97	17.22	17.21	24.0	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750				
100	Pi/2 BPSK	1	1		20.30						
100	Pi/2 BPSK	1	137		20.27			0.0			
100	Pi/2 BPSK	1	271		20.08						
100	Pi/2 BPSK	135	0		20.24		21.3	0.0			
100	Pi/2 BPSK	135	69		20.30		21.3	0.0			
100	Pi/2 BPSK	135	138		20.25						
100	Pi/2 BPSK	270	0		20.26		21.3	0.0			
100	QPSK	1	1		20.31						
100	QPSK	1	137		20.17		21.3	0.0			
100	QPSK	1	271		20.09						
100	QPSK	135	0		20.28		21.3	0.0			
100	QPSK	135	69		20.37		21.3	0.0			
100	QPSK	135	138		20.20						
100	QPSK	270	0		20.32		21.3	0.0			
100	16QAM	1	1		20.19		21.3	0.0			
100	64QAM	1	1		20.23		21.3	0.0			
100	256QAM	1	1		20.24		21.3	0.0			
Channel							649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3745.02	3750	3755.01		
90	QPSK	1	1	19.96	20.05	20.01	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	19.92	20.05	20.00	27.0	0.0			
Channel							649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3735	3750	3765		
70	QPSK	1	1	19.92	20.12	20.02	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	19.95	20.05	20.00	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	19.91	20.06	19.99	27.0	0.0			
Channel							648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3720	3750	3760		
40	QPSK	1	1	19.94	20.05	19.97	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	20.01	20.11	20.00	27.0	0.0			
Channel							647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3710.01	3750	3760.02		
20	QPSK	1	1	19.92	20.06	20.05	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				650000	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.43	19.57	19.39			
100	PI/2 BPSK	1	137	19.37	19.54	19.37	20.5	0.0	
100	PI/2 BPSK	1	271	19.43	19.66	19.41			
100	PI/2 BPSK	135	0	18.90	18.15	18.99	20.0	0.5	
100	PI/2 BPSK	135	69	19.46	19.60	19.47	20.5	0.0	
100	PI/2 BPSK	135	138	18.97	19.19	19.01			
100	PI/2 BPSK	270	0	19.06	19.22	19.06	20.0	0.5	
100	QPSK	1	1	19.45	19.68	19.42			
100	QPSK	1	137	19.39	19.62	19.39	20.5	0.0	
100	QPSK	1	271	19.38	19.63	19.49			
100	QPSK	135	0	18.46	18.54	18.42	19.5	1.0	
100	QPSK	135	69	19.40	19.63	19.47	20.5	0.0	
100	QPSK	135	138	18.40	18.64	18.39			
100	QPSK	270	0	18.36	18.61	18.44	19.5	1.0	
100	16QAM	1	1	18.90	18.76	18.52	19.5	1.0	
100	64QAM	1	1	16.95	17.14	16.88	18.0	2.5	
100	256QAM	1	1	15.03	15.26	15.11	16.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.21	18.46	18.20	20.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.23	18.43	18.19	20.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.27	18.42	18.27	20.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.23	18.43	18.27	20.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.27	18.39	18.25	20.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.22	18.39	18.21	20.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.28	18.39	18.23	20.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.20	18.39	18.25	20.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.34	22.41	22.28			
100	PI/2 BPSK	1	137	22.25	22.41	22.31	23.5	0.0	
100	PI/2 BPSK	1	271	22.33	22.60	22.29			
100	PI/2 BPSK	135	0	21.84	22.04	21.83	23.0	0.5	
100	PI/2 BPSK	135	69	22.33	22.42	22.36	23.5	0.0	
100	PI/2 BPSK	135	138	21.87	22.15	21.88			
100	PI/2 BPSK	270	0	22.01	22.12	21.95	23.0	0.5	
100	QPSK	1	1	22.33	22.62	22.37			
100	QPSK	1	137	22.33	22.50	22.30	23.5	0.0	
100	QPSK	1	271	22.26	22.49	22.36			
100	QPSK	135	0	21.35	21.53	21.35	22.5	1.0	
100	QPSK	135	69	22.30	22.47	22.32	23.5	0.0	
100	QPSK	135	138	21.24	21.57	21.29			
100	QPSK	270	0	21.22	21.62	21.31	22.5	1.0	
100	16QAM	1	1	21.42	21.61	21.37	22.5	1.0	
100	64QAM	1	1	19.89	20.00	19.76	21.0	2.5	
100	256QAM	1	1	17.96	18.21	17.96	18.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.09	21.36	21.09	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.01	21.33	21.06	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.06	21.34	21.06	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.96	21.32	21.14	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.09	21.34	21.11	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.07	21.32	21.12	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.04	21.41	21.12	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.00	21.37	21.13	23.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.47			20.5	0.0
100	PI/2 BPSK	1	137	19.45				
100	PI/2 BPSK	1	271	19.51				
100	PI/2 BPSK	135	0	19.03			20.0	0.5
100	PI/2 BPSK	135	69	19.52			20.5	0.0
100	PI/2 BPSK	135	138	19.07				
100	PI/2 BPSK	270	0	18.91			20.0	0.5
100	QPSK	1	1	19.58				
100	QPSK	1	137	19.50			20.5	0.0
100	QPSK	1	271	19.45				
100	QPSK	135	0	18.52			19.5	1.0
100	QPSK	135	69	19.55			20.5	0.0
100	QPSK	135	138	18.52				
100	QPSK	270	0	18.53			19.5	1.0
100	16QAM	1	1	18.66			19.5	1.0
100	64QAM	1	1	18.88			18.0	2.5
100	256QAM	1	1	15.13			16.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.18	19.40	19.16	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.25	19.48	19.10	20.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.14	19.41	19.14	20.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.24	19.48	19.16	20.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.22	19.41	19.12	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.19	19.48	19.19	20.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.24	19.40	19.14	20.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.22	19.46	19.11	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.27			23.5	0.0
100	PI/2 BPSK	1	137	22.27				
100	PI/2 BPSK	1	271	22.50				
100	PI/2 BPSK	135	0	21.89			23.0	0.5
100	PI/2 BPSK	135	69	22.30			23.5	0.0
100	PI/2 BPSK	135	138	22.05				
100	PI/2 BPSK	270	0	21.77			23.0	0.5
100	QPSK	1	1	22.55				
100	QPSK	1	137	22.35			23.5	0.0
100	QPSK	1	271	22.39				
100	QPSK	135	0	21.46			22.5	1.0
100	QPSK	135	69	22.38			23.5	0.0
100	QPSK	135	138	21.47				
100	QPSK	270	0	21.36			22.5	1.0
100	16QAM	1	1	21.44			22.5	1.0
100	64QAM	1	1	18.84			21.0	2.5
100	256QAM	1	1	13.11			13.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.11	22.40	22.09	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.11	22.35	22.07	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.08	22.38	22.14	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.05	22.42	22.10	23.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.07	22.35	22.11	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.02	22.37	22.10	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.03	22.44	22.07	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.08	22.45	22.05	23.5	0.0



Par270 n77 Ant 2 DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	17.62	17.87	17.63			
100	PI/2 BPSK	1	137	17.71	17.91	17.65	19.1	0.0	
100	PI/2 BPSK	1	271	17.66	17.95	17.65			
100	PI/2 BPSK	135	0	17.73	17.91	17.72	19.1	0.0	
100	PI/2 BPSK	135	69	17.65	17.92	17.66	19.1	0.0	
100	PI/2 BPSK	135	138	17.74	17.91	17.67	19.1	0.0	
100	PI/2 BPSK	270	0	17.71	17.84	17.70			
100	QPSK	1	1	18.04	18.11	17.98			
100	QPSK	1	137	17.68	17.90	17.67	19.1	0.0	
100	QPSK	1	271	17.92	18.07	17.82			
100	QPSK	135	0	17.85	17.90	17.88	19.1	0.0	
100	QPSK	135	69	17.69	17.94	17.61	19.1	0.0	
100	QPSK	135	138	17.63	17.89	17.63			
100	QPSK	270	0	17.66	17.90	17.62	19.1	0.0	
100	16QAM	1	1	17.63	17.89	17.65	19.1	0.0	
100	64QAM	1	1	17.64	17.88	17.70	19.1	0.0	
100	256QAM	1	1	18.47	18.88	18.53	19.0	1.1	
Channel				649668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.92	18.10	17.86	19.1	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.50	18.10	17.63	19.1	0.0	
Channel				649500	650000	663300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.94	18.10	17.92	19.1	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.52	18.05	17.62	19.1	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.89	18.04	17.89	19.1	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.64	18.07	17.61	19.1	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.91	18.07	17.84	19.1	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.85	18.06	17.86	19.1	0.0	

Par270 n77 HPUE Ant 2 DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	66000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.86	21.01	20.75			
100	PI/2 BPSK	1	137	20.89	21.04	20.80	22.1	0.0	
100	PI/2 BPSK	1	271	20.85	21.03	20.73			
100	PI/2 BPSK	135	0	20.90	21.05	20.83	22.1	0.0	
100	PI/2 BPSK	135	69	20.89	21.05	20.80	22.1	0.0	
100	PI/2 BPSK	135	138	20.86	21.00	20.84	22.1	0.0	
100	PI/2 BPSK	270	0	20.87	21.09	20.77			
100	QPSK	1	1	21.06	21.20	21.00			
100	QPSK	1	137	20.86	21.05	20.78	22.1	0.0	
100	QPSK	1	271	21.01	21.14	21.06			
100	QPSK	135	0	20.85	21.04	20.81	22.1	0.0	
100	QPSK	135	69	20.87	21.07	20.76	22.1	0.0	
100	QPSK	135	138	20.83	21.06	20.83	22.1	0.0	
100	QPSK	270	0	20.83	21.04	20.77			
100	16QAM	1	1	20.87	21.07	20.81	22.1	0.0	
100	64QAM	1	1	20.89	21.02	20.76	22.1	0.0	
100	256QAM	1	1	19.61	19.84	19.59	21.0	1.1	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.81	21.01	20.73	22.1	0.0	
Channel				648334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.90	21.11	20.75	22.1	0.0	
Channel				649500	650000	663500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.81	21.07	20.76	22.1	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.81	21.02	20.75	22.1	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.82	21.04	20.75	22.1	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.87	21.06	20.73	22.1	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.82	20.99	20.74	22.1	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.89	21.01	20.79	22.1	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								
Frequency (MHz)								
				65000				
100	PI/2 BPSK	1	1	17.76				
100	PI/2 BPSK	1	137	17.73			19.1	0.0
100	PI/2 BPSK	1	271	17.78				
100	PI/2 BPSK	135	0	17.75			19.1	0.0
100	PI/2 BPSK	135	69	17.77			19.1	0.0
100	PI/2 BPSK	135	138	17.73				
100	PI/2 BPSK	270	0	17.74			19.1	0.0
100	QPSK	1	1	18.04				
100	QPSK	1	137	17.72			19.1	0.0
100	QPSK	1	271	17.94				
100	QPSK	135	0	17.78			19.1	0.0
100	QPSK	135	69	17.83			19.1	0.0
100	QPSK	135	138	17.82				
100	QPSK	270	0	17.72			19.1	0.0
100	16QAM	1	1	17.79			19.1	0.0
100	64QAM	1	1	17.79			19.1	0.0
100	256QAM	1	1	16.78			18.0	1.1
Channel								
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.79	17.88	17.76	19.1	0.0
Channel								
				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.70	18.02	17.76	19.1	0.0
Channel								
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3738	3750	3765		
70	QPSK	1	1	17.74	17.99	17.77	19.1	0.0
Channel								
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.82	18.00	17.88	19.1	0.0
Channel								
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.81	17.96	17.88	19.1	0.0
Channel								
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.73	17.95	17.76	19.1	0.0
Channel								
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.77	17.93	17.73	19.1	0.0
Channel								
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.78	17.97	17.89	19.1	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								
Frequency (MHz)								
				65000				
100	PI/2 BPSK	1	1	20.82				
100	PI/2 BPSK	1	137	20.93			22.1	0.0
100	PI/2 BPSK	1	271	20.94				
100	PI/2 BPSK	135	0	20.93			22.1	0.0
100	PI/2 BPSK	135	69	20.94			22.1	0.0
100	PI/2 BPSK	135	138	20.82			22.1	0.0
100	PI/2 BPSK	270	0	20.97				
100	QPSK	1	1	21.10				
100	QPSK	1	137	20.93			22.1	0.0
100	QPSK	1	271	21.00				
100	QPSK	135	0	20.93			22.1	0.0
100	QPSK	135	69	20.95			22.1	0.0
100	QPSK	135	138	20.90			22.1	0.0
100	QPSK	270	0	20.91				
100	16QAM	1	1				22.1	0.0
100	64QAM	1	1				22.1	0.0
100	256QAM	1	1				21.0	1.1
Channel								
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.71	20.90	20.85	22.1	0.0
Channel								
				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.68	20.87	20.81	22.1	0.0
Channel								
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3738	3750	3765		
70	QPSK	1	1	20.63	20.91	20.89	22.1	0.0
Channel								
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.71	20.92	20.88	22.1	0.0
Channel								
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.68	20.84	20.86	22.1	0.0
Channel								
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.73	20.88	20.84	22.1	0.0
Channel								
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.66	20.85	20.82	22.1	0.0
Channel								
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.68	20.91	20.83	22.1	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				65000	65800	66200		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.25	17.32	17.29		
100	PI/2 BPSK	1	137	17.26	17.34	17.26	18.6	0.0
100	PI/2 BPSK	1	271	17.25	17.38	17.32		
100	PI/2 BPSK	135	0	17.26	17.39	17.32	18.6	0.0
100	PI/2 BPSK	135	69	17.23	17.40	17.37	18.6	0.0
100	PI/2 BPSK	135	138	17.26	17.39	17.27		
100	PI/2 BPSK	270	0	17.22	17.34	17.26	18.6	0.0
100	QPSK	1	1	17.42	17.50	17.46		
100	QPSK	1	137	17.28	17.40	17.34	18.6	0.0
100	QPSK	1	271	17.30	17.38	17.30		
100	QPSK	135	0	17.24	17.33	17.32	18.6	0.0
100	QPSK	135	69	17.36	17.41	17.39	18.6	0.0
100	QPSK	135	138	17.31	17.34	17.36		
100	QPSK	270	0	17.35	17.38	17.38	18.6	0.0
100	16QAM	1	1	17.29	17.29	17.29	18.6	0.0
100	64QAM	1	1	16.80	16.85	16.90	18.0	0.6
100	256QAM	1	1	14.60	14.88	14.60	16.0	2.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.29	17.35	17.28	18.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.23	17.41	17.34	18.6	0.0
Channel				649500	659000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.33	17.35	17.35	18.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.30	17.29	17.37	18.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.28	17.36	17.38	18.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.22	17.40	17.30	18.6	0.0
Channel				647868	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.29	17.38	17.34	18.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.31	17.29	17.28	18.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				65000	65600	66200		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.25	20.33	20.29		
100	PI/2 BPSK	1	137	20.33	20.34	20.31	21.6	0.0
100	PI/2 BPSK	1	271	20.33	20.44	20.26		
100	PI/2 BPSK	135	0	20.30	20.42	20.25	21.6	0.0
100	PI/2 BPSK	135	69	20.26	20.35	20.29	21.6	0.0
100	PI/2 BPSK	135	138	20.31	20.37	20.27		
100	PI/2 BPSK	270	0	20.33	20.38	20.30	21.6	0.0
100	QPSK	1	1	20.45	20.53	20.43		
100	QPSK	1	137	20.32	20.42	20.31	21.6	0.0
100	QPSK	1	271	20.25	20.37	20.31		
100	QPSK	135	0	20.35	20.35	20.31	21.6	0.0
100	QPSK	135	69	20.41	20.49	20.35	21.6	0.0
100	QPSK	135	138	20.25	20.39	20.25		
100	QPSK	270	0	20.38	20.44	20.39	21.6	0.0
100	16QAM	1	1	20.35	20.36	20.26	21.6	0.0
100	64QAM	1	1	19.82	19.93	19.84	21.0	0.6
100	256QAM	1	1	17.84	17.83	17.80	18.0	2.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.26	20.38	20.24	21.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.31	20.35	20.26	21.6	0.0
Channel				649500	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.31	20.43	20.33	21.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.27	20.37	20.24	21.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.35	20.37	20.26	21.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.27	20.41	20.32	21.6	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.35	20.41	20.25	21.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.28	20.44	20.24	21.6	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				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	17.13			18.6	0.0
100	PI/2 BPSK	1	137	17.25				
100	PI/2 BPSK	1	271	17.22				
100	PI/2 BPSK	135	0	17.30			18.6	0.0
100	PI/2 BPSK	135	69	17.27			18.6	0.0
100	PI/2 BPSK	135	138	17.25			18.6	0.0
100	PI/2 BPSK	270	0	17.17				
100	QPSK	1	1	17.33				
100	QPSK	1	137	17.28			18.6	0.0
100	QPSK	1	271	17.23				
100	QPSK	135	0	17.20			18.6	0.0
100	QPSK	135	69	17.33			18.6	0.0
100	QPSK	135	138	17.19				
100	QPSK	270	0	17.24			18.6	0.0
100	16QAM	1	1	17.10			18.6	0.0
100	64QAM	1	1	16.76			18.0	0.6
100	256QAM	1	1	14.50			16.0	2.6
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.18	17.25	17.12	18.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.16	17.24	17.16	18.6	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3738	3750	3765		
70	QPSK	1	1	17.13	17.21	17.19	18.6	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.22	17.20	17.18	18.6	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.19	17.28	17.14	18.6	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.22	17.27	17.12	18.6	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.13	17.20	17.17	18.6	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.22	17.21	17.18	18.6	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				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	17.13			20.18	
100	PI/2 BPSK	1	137	17.25			20.26	
100	PI/2 BPSK	1	271	17.22			20.27	
100	PI/2 BPSK	135	0	17.30			20.34	21.6
100	PI/2 BPSK	135	69	17.27			20.18	0.0
100	PI/2 BPSK	135	138	17.25			20.20	21.6
100	PI/2 BPSK	270	0	17.17			20.21	21.6
100	QPSK	1	1	17.33			20.46	
100	QPSK	1	137	17.28			20.34	21.6
100	QPSK	1	271	17.23			20.29	
100	QPSK	135	0	17.20			20.16	21.6
100	QPSK	135	69	17.33			20.41	21.6
100	QPSK	135	138	17.19			20.28	21.6
100	QPSK	270	0	17.24			20.31	0.0
100	16QAM	1	1	17.10			20.21	21.6
100	64QAM	1	1	16.76			19.64	21.0
100	256QAM	1	1	14.50			17.61	21.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.10	20.20	20.12	21.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.09	20.26	20.18	21.6	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3738	3750	3765		
70	QPSK	1	1	20.07	20.20	20.12	21.6	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.14	20.24	20.15	21.6	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.10	20.27	20.10	21.6	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.17	20.28	20.15	21.6	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.10	20.23	20.13	21.6	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.14	20.29	20.14	21.6	0.0



Reduced Power Mode for DSI6

Par270 n77 Ant 5 DSI 6										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 655000	High Ch. / Freq. 662000				
Channel				3750	3840	3930				
Frequency (MHz)										
100	PI/2 BPSK	1	1	16.29	16.44	16.30	17.8	0.0		
100	PI/2 BPSK	1	137	16.27	16.40	16.30				
100	PI/2 BPSK	135	0	16.25	16.40	16.38	17.8	0.0		
100	PI/2 BPSK	135	69	16.29	16.40	16.36	17.8	0.0		
100	PI/2 BPSK	135	138	16.25	16.39	16.30	17.8	0.0		
100	PI/2 BPSK	270	0	16.31	16.47	16.30				
100	QPSK	1	1	16.37	16.55	16.43	17.8	0.0		
100	QPSK	1	137	16.22	16.43	16.30				
100	QPSK	1	271	16.25	16.45	16.39	17.8	0.0		
100	QPSK	135	0	16.22	16.39	16.34	17.8	0.0		
100	QPSK	135	69	16.26	16.47	16.29	17.8	0.0		
100	QPSK	135	138	16.23	16.40	16.29	17.8	0.0		
100	QPSK	270	0	16.26	16.45	16.35				
100	16QAM	1	1	16.22	16.40	16.28	17.8	0.0		
100	64QAM	1	1	16.22	16.44	16.36	17.8	0.0		
100	256QAM	1	1	16.22	16.44	16.36	17.8	0.0		
Channel				649668	656000	662334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)		
90	QPSK	1	1	16.14	16.24	16.25	17.8	0.0		
Channel				649334	656000	662668	Tune-up limit	MPR		
Frequency (MHz)				3745.01	3840	3940.02	(dBm)	(dB)		
80	QPSK	1	1	16.15	16.31	16.19	17.8	0.0		
Channel				649000	656000	663000	Tune-up limit	MPR		
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)		
70	QPSK	1	1	16.07	16.24	16.18	17.8	0.0		
Channel				648668	656000	663334	Tune-up limit	MPR		
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)		
60	QPSK	1	1	16.10	16.23	16.19	17.8	0.0		
Channel				648334	656000	663668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)		
50	QPSK	1	1	16.10	16.27	16.22	17.8	0.0		
Channel				648000	656000	664000	Tune-up limit	MPR		
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)		
40	QPSK	1	1	16.06	16.23	16.19	17.8	0.0		
Channel				647668	656000	664334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	(dB)		
30	QPSK	1	1	16.08	16.26	16.24	17.8	0.0		
Channel				647334	656000	664668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)		
20	QPSK	1	1	16.13	16.32	16.18	17.8	0.0		

Par270 n77 HPUE Ant 5 DSI 6										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 656000	High Ch. / Freq. 663000				
Channel				3750	3840	3930				
Frequency (MHz)										
100	PI/2 BPSK	1	1	19.18	19.41	19.21	20.8	0.0		
100	PI/2 BPSK	1	137	19.13	19.35	19.28				
100	PI/2 BPSK	1	271	19.20	19.29	19.23	20.8	0.0		
100	PI/2 BPSK	135	0	19.19	19.35	19.29	20.8	0.0		
100	PI/2 BPSK	135	69	19.10	19.35	19.22	20.8	0.0		
100	PI/2 BPSK	135	138	19.14	19.39	19.30	20.8	0.0		
100	PI/2 BPSK	270	0	19.15	19.36	19.22				
100	QPSK	1	1	19.26	19.45	19.35	20.8	0.0		
100	QPSK	1	137	19.11	19.30	19.31				
100	QPSK	1	271	19.15	19.30	19.23	20.8	0.0		
100	QPSK	135	0	19.19	19.40	19.23	20.8	0.0		
100	QPSK	135	69	19.14	19.41	19.24	20.8	0.0		
100	QPSK	135	138	19.19	19.31	19.21	20.8	0.0		
100	QPSK	270	0	19.15	19.38	19.22				
100	16QAM	1	1	19.18	19.32	19.28	20.8	0.0		
100	64QAM	1	1	19.21	19.38	19.24	20.8	0.0		
100	256QAM	1	1	19.21	19.39	19.28	20.8	0.0		
Channel				649668	656000	663334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)		
90	QPSK	1	1	19.10	19.32	19.23	20.8	0.0		
Channel				649334	656000	662668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)		
80	QPSK	1	1	19.21	19.31	19.27	20.8	0.0		
Channel				649000	656000	663000	Tune-up limit	MPR		
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)		
70	QPSK	1	1	19.21	19.33	19.29	20.8	0.0		
Channel				648668	656000	663334	Tune-up limit	MPR		
Frequency (MHz)				3720.02	3840	3950.01	(dBm)	(dB)		
60	QPSK	1	1	19.17	19.35	19.23	20.8	0.0		
Channel				648334	656000	663668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)		
50	QPSK	1	1	19.16	19.30	19.31	20.8	0.0		
Channel				648000	656000	664000	Tune-up limit	MPR		
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)		
40	QPSK	1	1	19.15	19.35	19.26	20.8	0.0		
Channel				647668	656000	664334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	(dB)		
30	QPSK	1	1	19.17	19.29	19.19	20.8	0.0		
Channel				647334	656000	664668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)		
20	QPSK	1	1	19.14	19.33	19.20	20.8	0.0		



Par270 n78 Ant 5 DSI 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750				
100	Pi/2 BPSK	1	1	16.26							
100	Pi/2 BPSK	1	137	16.26			17.8	0.0			
100	Pi/2 BPSK	1	271	16.34							
100	Pi/2 BPSK	135	0	16.22			17.8	0.0			
100	Pi/2 BPSK	135	69	16.25			17.8	0.0			
100	Pi/2 BPSK	135	138	16.30							
100	Pi/2 BPSK	270	0	16.39			17.8	0.0			
100	QPSK	1	1	16.40							
100	QPSK	1	137	16.32			17.8	0.0			
100	QPSK	1	271	16.32							
100	QPSK	135	0	16.29			17.8	0.0			
100	QPSK	135	69	16.35			17.8	0.0			
100	QPSK	135	138	16.24							
100	QPSK	270	0	16.33			17.8	0.0			
100	16QAM	1	1	16.22			17.8	0.0			
100	64QAM	1	1	16.31			17.8	0.0			
100	256QAM	1	1	16.25			17.8	0.0			
Channel							649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3745.02	3750	3755.01		
90	QPSK	1	1	15.97	16.10	16.11	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	16.00	16.06	16.07	24.0	0.0			
Channel							649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3735	3750	3765		
70	QPSK	1	1	15.96	16.17	16.06	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	16.05	16.09	16.10	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	16.03	16.14	16.07	24.0	0.0			
Channel							648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3720	3750	3760		
40	QPSK	1	1	16.03	16.07	16.10	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	16.04	16.11	16.12	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	16.02	16.14	16.07	24.0	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750				
100	Pi/2 BPSK	1	1	19.29							
100	Pi/2 BPSK	1	137	19.17			20.8	0.0			
100	Pi/2 BPSK	1	271	19.13							
100	Pi/2 BPSK	135	0	19.20			20.8	0.0			
100	Pi/2 BPSK	135	69	19.28			20.8	0.0			
100	Pi/2 BPSK	135	138	19.21							
100	Pi/2 BPSK	270	0	19.27			20.8	0.0			
100	QPSK	1	1	19.34							
100	QPSK	1	137	19.19			20.8	0.0			
100	QPSK	1	271	19.16							
100	QPSK	135	0	19.31			20.8	0.0			
100	QPSK	135	69	19.32			20.8	0.0			
100	QPSK	135	138	19.21							
100	QPSK	270	0	19.22			20.8	0.0			
100	16QAM	1	1	19.16			20.8	0.0			
100	64QAM	1	1	19.30			20.8	0.0			
100	256QAM	1	1	19.24			20.8	0.0			
Channel							649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3745.02	3750	3755.01		
90	QPSK	1	1	18.96	19.25	19.05	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	18.95	19.13	19.10	27.0	0.0			
Channel							649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3735	3750	3765		
70	QPSK	1	1	18.93	19.20	19.07	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	18.94	19.14	19.05	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	18.94	19.22	19.14	27.0	0.0			
Channel							648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)							3720	3750	3760		
40	QPSK	1	1	18.97	19.15	19.16	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	19.00	19.17	19.05	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	18.91	19.10	19.07	27.0	0.0			



Par270 n77 Ant 1 DSI 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.43	19.57	19.39			
100	PI/2 BPSK	1	137	19.37	19.54	19.37	20.5	0.0	
100	PI/2 BPSK	1	271	19.43	19.66	19.41			
100	PI/2 BPSK	135	0	18.90	18.15	18.99	20.0	0.5	
100	PI/2 BPSK	135	69	19.46	19.60	19.47	20.5	0.0	
100	PI/2 BPSK	135	138	18.97	19.19	19.01			
100	PI/2 BPSK	270	0	19.06	19.22	19.06	20.0	0.5	
100	QPSK	1	1	19.45	19.68	19.42			
100	QPSK	1	137	19.39	19.62	19.39	20.5	0.0	
100	QPSK	1	271	19.38	19.63	19.49			
100	QPSK	135	0	18.46	18.54	18.42	19.5	1.0	
100	QPSK	135	69	19.40	19.63	19.47	20.5	0.0	
100	QPSK	135	138	18.40	18.64	18.39			
100	QPSK	270	0	18.36	18.61	18.44	19.5	1.0	
100	16QAM	1	1	18.90	18.76	18.52	19.5	1.0	
100	64QAM	1	1	16.95	17.14	16.88	18.0	2.5	
100	256QAM	1	1	15.03	15.26	15.11	16.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.21	18.46	18.20	20.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.23	18.43	18.19	20.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.27	18.42	18.27	20.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.23	18.43	18.27	20.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.27	18.39	18.25	20.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.22	18.39	18.21	20.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.28	18.39	18.23	20.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.20	18.39	18.25	20.5	0.0	

Par270 n77 HPUE Ant 1 DSI 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.34	22.41	22.28			
100	PI/2 BPSK	1	137	22.25	22.41	22.31	23.5	0.0	
100	PI/2 BPSK	1	271	22.33	22.60	22.29			
100	PI/2 BPSK	135	0	21.84	22.04	21.83	23.0	0.5	
100	PI/2 BPSK	135	69	22.33	22.42	22.36	23.5	0.0	
100	PI/2 BPSK	135	138	21.87	22.15	21.88			
100	PI/2 BPSK	270	0	22.01	22.12	21.95	23.0	0.5	
100	QPSK	1	1	22.33	22.62	22.37			
100	QPSK	1	137	22.33	22.50	22.30	23.5	0.0	
100	QPSK	1	271	22.26	22.49	22.36			
100	QPSK	135	0	21.35	21.53	21.35	22.5	1.0	
100	QPSK	135	69	22.30	22.47	22.32	23.5	0.0	
100	QPSK	135	138	21.24	21.57	21.29			
100	QPSK	270	0	21.22	21.62	21.31	22.5	1.0	
100	16QAM	1	1	21.42	21.61	21.37	22.5	1.0	
100	64QAM	1	1	19.89	20.00	19.76	21.0	2.5	
100	256QAM	1	1	17.96	18.21	17.96	18.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.09	21.36	21.09	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.01	21.33	21.06	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.06	21.34	21.06	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.96	21.32	21.14	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.09	21.34	21.11	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.07	21.32	21.12	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.04	21.41	21.12	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.00	21.37	21.13	23.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.47			20.5	0.0
100	PI/2 BPSK	1	137	19.45				
100	PI/2 BPSK	1	271	19.51				
100	PI/2 BPSK	135	0	19.03			20.0	0.5
100	PI/2 BPSK	135	69	19.52			20.5	0.0
100	PI/2 BPSK	135	138	19.07				
100	PI/2 BPSK	270	0	18.91			20.0	0.5
100	QPSK	1	1	19.58				
100	QPSK	1	137	19.50			20.5	0.0
100	QPSK	1	271	19.45				
100	QPSK	135	0	18.52			19.5	1.0
100	QPSK	135	69	19.55			20.5	0.0
100	QPSK	135	138	18.52				
100	QPSK	270	0	18.53			19.5	1.0
100	16QAM	1	1	18.66			19.5	1.0
100	64QAM	1	1	18.88			18.0	2.5
100	256QAM	1	1	15.13			16.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.18	19.40	19.16	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.25	19.48	19.10	20.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.14	19.41	19.14	20.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.24	19.48	19.16	20.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.22	19.41	19.12	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.19	19.48	19.19	20.5	0.0
Channel				648334	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.24	19.40	19.14	20.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.22	19.46	19.11	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.27			23.5	0.0
100	PI/2 BPSK	1	137	22.27				
100	PI/2 BPSK	1	271	22.50				
100	PI/2 BPSK	135	0	21.89			23.0	0.5
100	PI/2 BPSK	135	69	22.30			23.5	0.0
100	PI/2 BPSK	135	138	22.05				
100	PI/2 BPSK	270	0	21.77			23.0	0.5
100	QPSK	1	1	22.55				
100	QPSK	1	137	22.35			23.5	0.0
100	QPSK	1	271	22.39				
100	QPSK	135	0	21.46			22.5	1.0
100	QPSK	135	69	22.38			23.5	0.0
100	QPSK	135	138	21.47				
100	QPSK	270	0	21.36			22.5	1.0
100	16QAM	1	1	21.44			22.5	1.0
100	64QAM	1	1	18.84			21.0	2.5
100	256QAM	1	1	13.11			13.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.11	22.40	22.09	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.11	22.35	22.07	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.08	22.38	22.14	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.05	22.42	22.10	23.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.07	22.35	22.11	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.02	22.37	22.10	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.03	22.44	22.07	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.08	22.45	22.05	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65800	66200			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	20.95	21.19	20.96			
100	PI/2 BPSK	1	137	20.96	21.21	20.97	22.5	0.0	
100	PI/2 BPSK	1	271	21.01	21.21	20.96			
100	PI/2 BPSK	135	0	20.60	20.82	20.65	22.0	0.5	
100	PI/2 BPSK	135	69	21.04	21.19	20.93	22.5	0.0	
100	PI/2 BPSK	135	138	20.49	20.73	20.53	22.0	0.5	
100	PI/2 BPSK	270	0	20.73	20.88	20.70			
100	QPSK	1	1	21.20	21.36	21.14			
100	QPSK	1	137	20.93	21.15	20.90	22.5	0.0	
100	QPSK	1	271	21.11	21.27	21.07			
100	QPSK	135	0	20.23	20.39	20.24	21.5	1.0	
100	QPSK	135	69	21.09	21.28	21.08	22.5	0.0	
100	QPSK	135	138	20.14	20.29	20.13	21.5	1.0	
100	QPSK	270	0	20.11	20.32	20.11			
100	16QAM	1	1	20.09	20.32	20.17	21.5	1.0	
100	64QAM	1	1	18.59	18.81	18.65	20.0	2.5	
100	256QAM	1	1	16.67	16.88	16.73	18.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.98	20.11	19.98	22.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.94	20.07	19.92	22.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.91	20.12	19.97	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.95	20.07	19.93	22.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.88	20.11	19.90	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.91	20.13	19.94	22.5	0.0	
Channel				647993	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.89	20.08	19.92	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.91	20.04	19.92	22.5	0.0	

Par270 n77 HPUE Ant 2 DSI 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65600	66200			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.88	24.03	23.91			
100	PI/2 BPSK	1	137	23.89	24.17	23.86	25.5	0.0	
100	PI/2 BPSK	1	271	23.97	24.08	23.90			
100	PI/2 BPSK	135	0	23.48	23.68	23.51	25.0	0.5	
100	PI/2 BPSK	135	69	23.96	24.14	23.83	25.5	0.0	
100	PI/2 BPSK	135	138	23.35	23.64	23.48	25.0	0.5	
100	PI/2 BPSK	270	0	23.60	23.76	23.58			
100	QPSK	1	1	24.09	24.25	23.99			
100	QPSK	1	137	23.81	24.07	23.84	25.5	0.0	
100	QPSK	1	271	23.99	24.18	24.02			
100	QPSK	135	0	23.12	23.24	23.09	24.5	1.0	
100	QPSK	135	69	23.95	24.16	24.03	25.5	0.0	
100	QPSK	135	138	23.04	23.22	23.04	24.5	1.0	
100	QPSK	270	0	23.03	23.23	23.02			
100	16QAM	1	1	23.03	23.28	23.11	24.5	1.0	
100	64QAM	1	1	21.47	21.72	21.56	23.0	2.5	
100	256QAM	1	1	19.61	19.84	19.59	21.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.79	23.01	22.89	25.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.80	22.99	22.89	25.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.79	23.06	22.87	25.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.76	23.00	22.89	25.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.81	22.98	22.88	25.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.84	22.99	22.79	25.5	0.0	
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.89	23.07	22.83	25.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.83	23.04	22.88	25.5	0.0	



Par270 n78 Ant 2 DSI 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	21.08					
100	PI/2 BPSK	1	137	21.07			22.5	0.0	
100	PI/2 BPSK	1	271	21.07					
100	PI/2 BPSK	135	0	20.72			22.0	0.5	
100	PI/2 BPSK	135	69	21.07			22.5	0.0	
100	PI/2 BPSK	135	138	20.85					
100	PI/2 BPSK	270	0	20.77			22.0	0.5	
100	QPSK	1	1	21.21					
100	QPSK	1	137	21.03			22.5	0.0	
100	QPSK	1	271	21.11					
100	QPSK	135	0	20.21			21.5	1.0	
100	QPSK	135	69	21.15			22.5	0.0	
100	QPSK	135	138	20.11					
100	QPSK	270	0	20.17			21.5	1.0	
100	16QAM	1	1	20.20			21.5	1.0	
100	64QAM	1	1	18.73			20.0	2.5	
100	256QAM	1	1	16.78			18.0	4.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	20.93	21.06	20.86	22.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	21.02	21.12	20.83	22.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3738	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	21.02	21.08	20.88	22.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	21.03	21.10	20.81	22.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	20.99	21.02	20.80	22.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	21.00	21.03	20.86	22.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	21.05	21.06	20.92	22.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	20.98	21.10	20.89	22.5	0.0	

Par270 n78 HPUE Ant 2 DSI 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	23.91					
100	PI/2 BPSK	1	137	24.08			25.5	0.0	
100	PI/2 BPSK	1	271	23.99					
100	PI/2 BPSK	135	0	23.55			25.0	0.5	
100	PI/2 BPSK	135	69	23.97			25.5	0.0	
100	PI/2 BPSK	135	138	23.40					
100	PI/2 BPSK	270	0	23.67			25.0	0.5	
100	QPSK	1	1	24.16					
100	QPSK	1	137	23.98			25.5	0.0	
100	QPSK	1	271	24.05					
100	QPSK	135	0	23.15			24.5	1.0	
100	QPSK	135	69	23.99			25.5	0.0	
100	QPSK	135	138	23.16					
100	QPSK	270	0	23.15			24.5	1.0	
100	16QAM	1	1	23.13			24.5	1.0	
100	64QAM	1	1	21.57			23.0	2.5	
100	256QAM	1	1	19.75			21.0	4.5	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	23.86	23.98	23.72	25.5	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	23.82	24.00	23.77	25.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3738	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	23.91	24.04	23.77	25.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	23.83	24.08	23.78	25.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	23.85	23.98	23.70	25.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	23.89	24.02	23.78	25.5	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	23.85	23.89	23.78	25.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	23.91	24.00	23.79	25.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	658000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.14	19.32	19.07		
100	PI/2 BPSK	1	137	19.14	19.33	19.09	20.5	0.0
100	PI/2 BPSK	1	271	19.17	19.34	19.19		
100	PI/2 BPSK	135	0	18.78	18.93	18.67	20.0	0.5
100	PI/2 BPSK	135	69	19.10	19.26	19.05	20.5	0.0
100	PI/2 BPSK	135	138	18.85	19.03	18.80	20.0	0.5
100	PI/2 BPSK	270	0	18.82	18.96	18.79		
100	QPSK	1	1	19.29	19.44	19.19		
100	QPSK	1	137	19.14	19.31	19.12	20.5	0.0
100	QPSK	1	271	19.02	19.24	18.99		
100	QPSK	135	0	18.17	18.38	18.16	19.5	1.0
100	QPSK	135	69	19.16	19.35	19.18	20.5	0.0
100	QPSK	135	138	18.31	18.45	18.24		
100	QPSK	270	0	18.22	18.38	18.18	19.5	1.0
100	16QAM	1	1	18.21	18.39	18.20	19.5	1.0
100	64QAM	1	1	16.67	16.88	16.72	18.0	2.5
100	256QAM	1	1	14.69	14.87	14.63	16.0	4.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.11	18.27	18.01	20.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.06	18.20	18.06	20.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.14	18.23	18.08	20.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.17	18.30	18.07	20.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.13	18.20	18.06	20.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.13	18.21	18.02	20.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.08	18.26	18.08	20.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.15	18.25	18.10	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.09	22.23	21.93		
100	PI/2 BPSK	1	137	22.02	22.25	22.03	23.5	0.0
100	PI/2 BPSK	1	271	22.12	22.22	22.13		
100	PI/2 BPSK	135	0	21.62	21.80	21.56	23.0	0.5
100	PI/2 BPSK	135	69	22.01	22.14	22.06	23.5	0.0
100	PI/2 BPSK	135	138	21.77	21.97	21.75	23.0	0.5
100	PI/2 BPSK	270	0	21.70	21.85	21.70		
100	QPSK	1	1	22.23	22.33	22.11		
100	QPSK	1	137	22.04	22.27	22.04	23.5	0.0
100	QPSK	1	271	21.92	22.19	21.88		
100	QPSK	135	0	21.02	21.26	21.07	22.5	1.0
100	QPSK	135	69	22.07	22.31	22.12	23.5	0.0
100	QPSK	135	138	21.21	21.37	21.16		
100	QPSK	270	0	21.08	21.22	21.14	22.5	1.0
100	16QAM	1	1	21.16	21.32	21.14	22.5	1.0
100	64QAM	1	1	19.58	19.79	19.61	21.0	2.5
100	256QAM	1	1	17.54	17.74	17.57	18.0	4.5
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.01	21.12	20.91	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.06	21.22	20.96	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.97	21.16	20.95	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.04	21.22	20.99	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.04	21.12	20.92	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.97	21.17	21.01	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.99	21.16	20.99	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.04	21.20	21.02	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.21			20.5	0.0
100	PI/2 BPSK	1	137	19.16				
100	PI/2 BPSK	1	271	19.17				
100	PI/2 BPSK	135	0	18.77			20.0	0.5
100	PI/2 BPSK	135	138	18.86			20.5	0.0
100	PI/2 BPSK	270	0	18.80			20.0	0.5
100	QPSK	1	1	19.34				
100	QPSK	1	137	19.23			20.5	0.0
100	QPSK	1	271	19.10				
100	QPSK	135	0	18.21			19.5	1.0
100	QPSK	135	69	19.18			20.5	0.0
100	QPSK	135	138	18.36				
100	QPSK	270	0	18.31			19.5	1.0
100	16QAM	1	1	18.28			19.5	1.0
100	64QAM	1	1	16.76			18.0	2.5
100	256QAM	1	1	14.50			16.0	4.5
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.07	19.31	18.92	20.5	0.0
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.03	19.23	18.84	20.5	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.05	19.30	18.85	20.5	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.00	19.24	18.95	20.5	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.98	19.22	18.91	20.5	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.05	19.27	18.90	20.5	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.02	19.29	18.95	20.5	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.00	19.31	18.86	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.08			23.5	0.0
100	PI/2 BPSK	1	137	22.14				
100	PI/2 BPSK	1	271	22.10				
100	PI/2 BPSK	135	0	21.72			23.0	0.5
100	PI/2 BPSK	135	69	22.01			23.5	0.0
100	PI/2 BPSK	135	138	21.80			23.0	0.5
100	PI/2 BPSK	270	0	21.73				
100	QPSK	1	1	22.18				
100	QPSK	1	137	22.10			23.5	0.0
100	QPSK	1	271	22.10				
100	QPSK	135	0	21.20			22.5	1.0
100	QPSK	135	69	22.18			23.5	0.0
100	QPSK	135	138	21.23			22.5	1.0
100	QPSK	270	0	21.16				
100	16QAM	1	1	21.14			22.5	1.0
100	64QAM	1	1	18.64			21.0	2.5
100	256QAM	1	1	17.61			19.0	4.5
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.02	22.03	21.89	23.5	0.0
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.97	22.03	21.87	23.5	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.93	22.11	21.81	23.5	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.99	22.04	21.85	23.5	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.97	22.11	21.79	23.5	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.99	22.09	21.86	23.5	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.92	22.00	21.91	23.5	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.95	22.05	21.83	23.5	0.0



Reduced Power Mode for DSI7

Par270 n77 Ant 5 DSI 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				3750	3840	3930				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	13.80	14.01	13.74				
100	PI/2 BPSK	1	137	13.81	13.87	13.72	15.7	0.0		
100	PI/2 BPSK	135	0	13.72	13.95	13.94				
100	PI/2 BPSK	135	69	13.80	13.89	13.90	15.7	0.0		
100	PI/2 BPSK	135	138	13.85	13.90	13.76				
100	PI/2 BPSK	270	0	13.79	13.90	13.90	15.7	0.0		
100	QPSK	1	1	13.84	14.08	13.95				
100	QPSK	1	137	13.75	13.88	13.86	15.7	0.0		
100	QPSK	1	271	13.79	13.97	13.93				
100	QPSK	135	0	13.75	13.90	13.86	15.7	0.0		
100	QPSK	135	69	13.91	13.94	13.74	15.7	0.0		
100	QPSK	135	138	13.72	13.89	13.86				
100	QPSK	270	0	13.72	13.90	13.85	15.7	0.0		
100	16QAM	1	1	13.72	13.90	13.80	15.7	0.0		
100	64QAM	1	1	13.71	13.98	13.86	15.7	0.0		
100	256QAM	1	1	13.77	13.99	13.80	15.7	0.0		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	13.68	13.71	13.62	15.7	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	13.59	13.71	13.57	15.7	0.0		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	13.58	13.74	13.62	15.7	0.0		
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.02	3840	3950.01				
60	QPSK	1	1	13.69	13.70	13.67	15.7	0.0		
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	13.63	13.76	13.58	15.7	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	13.67	13.78	13.62	15.7	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	13.64	13.71	13.66	15.7	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	13.60	13.73	13.60	15.7	0.0		

Par270 n77 HPUE Ant 5 DSI 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				3750	3840	3930				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	16.67	16.89	16.74				
100	PI/2 BPSK	1	137	16.64	16.62	16.75	18.7	0.0		
100	PI/2 BPSK	1	271	16.66	16.73	16.67				
100	PI/2 BPSK	135	0	16.73	16.82	16.74	18.7	0.0		
100	PI/2 BPSK	135	69	16.60	16.90	16.74	18.7	0.0		
100	PI/2 BPSK	135	138	16.74	16.86	16.88				
100	PI/2 BPSK	270	0	16.67	16.90	16.80	16.7	0.0		
100	QPSK	1	1	16.73	16.95	16.83				
100	QPSK	1	137	16.66	16.77	16.79	18.7	0.0		
100	QPSK	1	271	16.73	16.75	16.73				
100	QPSK	135	0	16.72	16.88	16.74	18.7	0.0		
100	QPSK	135	69	16.63	16.94	16.74	18.7	0.0		
100	QPSK	135	138	16.74	16.79	16.72				
100	QPSK	270	0	16.59	16.89	16.76	18.7	0.0		
100	16QAM	1	1	16.66	16.79	16.70	18.7	0.0		
100	64QAM	1	1	16.64	16.90	16.82	18.7	0.0		
100	256QAM	1	1	16.75	16.88	16.75	18.7	0.0		
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	16.49	16.83	16.61	18.7	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	16.53	16.89	16.60	18.7	0.0		
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	16.51	16.81	16.65	18.7	0.0		
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.02	3840	3950.01				
60	QPSK	1	1	16.47	16.89	16.65	18.7	0.0		
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	16.53	16.84	16.68	18.7	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	16.58	16.78	16.69	18.7	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	16.47	16.85	16.66	18.7	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	16.57	16.82	16.68	18.7	0.0		



Par270 n78 Ant 5 DSI 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750				
100	Pi/2 BPSK	1	1	13.86							
100	Pi/2 BPSK	1	137	13.72			15.7	0.0			
100	Pi/2 BPSK	1	271	13.77							
100	Pi/2 BPSK	135	0	13.80			15.7	0.0			
100	Pi/2 BPSK	135	69	13.77			15.7	0.0			
100	Pi/2 BPSK	135	138	13.78							
100	Pi/2 BPSK	270	0	13.78			15.7	0.0			
100	QPSK	1	1	13.99							
100	QPSK	1	137	13.75			15.7	0.0			
100	QPSK	1	271	13.86							
100	QPSK	135	0	13.78			15.7	0.0			
100	QPSK	135	69	13.81			15.7	0.0			
100	QPSK	135	138	13.78							
100	QPSK	270	0	13.77			15.7	0.0			
100	16QAM	1	1	13.74			15.7	0.0			
100	64QAM	1	1	13.79			15.7	0.0			
100	256QAM	1	1	13.90			15.7	0.0			
Channel							649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)							3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	13.51	13.59	13.44	24.0	0.0			
Channel							649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)							3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	13.55	13.59	13.52	24.0	0.0			
Channel							649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)							3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	13.56	13.61	13.53	24.0	0.0			
Channel							648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)							3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	13.52	13.52	13.49	24.0	0.0			
Channel							648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)							3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	13.59	13.60	13.46	24.0	0.0			
Channel							648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)							3720	3750	3760	(dBm)	(dB)
40	QPSK	1	1	13.55	13.58	13.47	24.0	0.0			
Channel							647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)							3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	13.55	13.56	13.49	24.0	0.0			
Channel							647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)							3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	13.55	13.62	13.50	24.0	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)							3750				
100	Pi/2 BPSK	1	1	16.74							
100	Pi/2 BPSK	1	137	16.67			18.7	0.0			
100	Pi/2 BPSK	1	271	16.55							
100	Pi/2 BPSK	135	0	16.74			18.7	0.0			
100	Pi/2 BPSK	135	69	16.76			18.7	0.0			
100	Pi/2 BPSK	135	138	16.78							
100	Pi/2 BPSK	270	0	16.81			18.7	0.0			
100	QPSK	1	1	16.83							
100	QPSK	1	137	16.68			18.7	0.0			
100	QPSK	1	271	16.59							
100	QPSK	135	0	16.77			18.7	0.0			
100	QPSK	135	69	16.80			18.7	0.0			
100	QPSK	135	138	16.68							
100	QPSK	270	0	16.73			18.7	0.0			
100	16QAM	1	1	16.62			18.7	0.0			
100	64QAM	1	1	16.68			18.7	0.0			
100	256QAM	1	1	16.78			18.7	0.0			
Channel							649668	650000	650334	Tune-up limit	MPR
Frequency (MHz)							3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	16.31	16.69	16.45	27.0	0.0			
Channel							649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)							3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	16.41	16.64	16.53	27.0	0.0			
Channel							649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)							3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	16.36	16.67	16.49	27.0	0.0			
Channel							648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)							3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	16.31	16.76	16.45	27.0	0.0			
Channel							648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)							3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	16.35	16.73	16.43	27.0	0.0			
Channel							648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)							3720	3750	3760	(dBm)	(dB)
40	QPSK	1	1	16.40	16.71	16.46	27.0	0.0			
Channel							647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)							3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	16.33	16.74	16.53	27.0	0.0			
Channel							647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)							3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	16.41	16.76	16.46	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				650000	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	19.43	19.57	19.39			
100	PI/2 BPSK	1	137	19.37	19.54	19.37	20.5	0.0	
100	PI/2 BPSK	1	271	19.43	19.66	19.41			
100	PI/2 BPSK	135	0	18.90	18.15	18.99	20.0	0.5	
100	PI/2 BPSK	135	69	19.46	19.60	19.47	20.5	0.0	
100	PI/2 BPSK	135	138	18.97	19.19	19.01			
100	PI/2 BPSK	270	0	19.06	19.22	19.06	20.0	0.5	
100	QPSK	1	1	19.45	19.68	19.42			
100	QPSK	1	137	19.39	19.62	19.39	20.5	0.0	
100	QPSK	1	271	19.38	19.63	19.49			
100	QPSK	135	0	18.46	18.54	18.42	19.5	1.0	
100	QPSK	135	69	19.40	19.63	19.47	20.5	0.0	
100	QPSK	135	138	18.40	18.64	18.39			
100	QPSK	270	0	18.36	18.61	18.44	19.5	1.0	
100	16QAM	1	1	18.90	18.76	18.52	19.5	1.0	
100	64QAM	1	1	16.95	17.14	16.88	18.0	2.5	
100	256QAM	1	1	15.03	15.26	15.11	16.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.21	18.46	18.20	20.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.23	18.43	18.19	20.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.27	18.42	18.27	20.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.23	18.43	18.27	20.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.27	18.39	18.25	20.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.22	18.39	18.21	20.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.28	18.39	18.23	20.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.20	18.39	18.25	20.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	658000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.34	22.41	22.28			
100	PI/2 BPSK	1	137	22.25	22.41	22.31	23.5	0.0	
100	PI/2 BPSK	1	271	22.33	22.60	22.29			
100	PI/2 BPSK	135	0	21.84	22.04	21.93	23.0	0.5	
100	PI/2 BPSK	135	69	22.33	22.42	22.36	23.5	0.0	
100	PI/2 BPSK	135	138	21.87	22.15	21.89			
100	PI/2 BPSK	270	0	22.01	22.12	21.95	23.0	0.5	
100	QPSK	1	1	22.33	22.62	22.37			
100	QPSK	1	137	22.33	22.50	22.30	23.5	0.0	
100	QPSK	1	271	22.26	22.49	22.36			
100	QPSK	135	0	21.35	21.53	21.39	22.5	1.0	
100	QPSK	135	69	22.30	22.47	22.32	23.5	0.0	
100	QPSK	135	138	21.24	21.57	21.29			
100	QPSK	270	0	21.22	21.62	21.31	22.5	1.0	
100	16QAM	1	1	21.42	21.61	21.37	22.5	1.0	
100	64QAM	1	1	19.89	20.00	19.76	21.0	2.5	
100	256QAM	1	1	17.96	18.21	17.96	18.0	4.5	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.09	21.36	21.09	23.5	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.01	21.33	21.06	23.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.06	21.34	21.06	23.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.96	21.32	21.14	23.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.09	21.34	21.11	23.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.07	21.32	21.12	23.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.04	21.41	21.12	23.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.00	21.37	21.13	23.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.47			20.5	0.0
100	PI/2 BPSK	1	137	19.45				
100	PI/2 BPSK	1	271	19.51				
100	PI/2 BPSK	135	0	19.03			20.0	0.5
100	PI/2 BPSK	135	69	19.52			20.5	0.0
100	PI/2 BPSK	135	138	19.07				
100	PI/2 BPSK	270	0	18.91			20.0	0.5
100	QPSK	1	1	19.58				
100	QPSK	1	137	19.50			20.5	0.0
100	QPSK	1	271	19.45				
100	QPSK	135	0	18.52			19.5	1.0
100	QPSK	135	69	19.55			20.5	0.0
100	QPSK	135	138	18.52				
100	QPSK	270	0	18.53			19.5	1.0
100	16QAM	1	1	18.66			19.5	1.0
100	64QAM	1	1	18.88			18.0	2.5
100	256QAM	1	1	15.13			16.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.18	19.40	19.16	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.25	19.48	19.10	20.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.14	19.41	19.14	20.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.24	19.48	19.16	20.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.22	19.41	19.12	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.19	19.48	19.19	20.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.24	19.40	19.14	20.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.22	19.46	19.11	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.27			23.5	0.0
100	PI/2 BPSK	1	137	22.27				
100	PI/2 BPSK	1	271	22.50				
100	PI/2 BPSK	135	0	21.89			23.0	0.5
100	PI/2 BPSK	135	69	22.30			23.5	0.0
100	PI/2 BPSK	135	138	22.05				
100	PI/2 BPSK	270	0	21.77			23.0	0.5
100	QPSK	1	1	22.55				
100	QPSK	1	137	22.35			23.5	0.0
100	QPSK	1	271	22.39				
100	QPSK	135	0	21.46			22.5	1.0
100	QPSK	135	69	22.38			23.5	0.0
100	QPSK	135	138	21.47				
100	QPSK	270	0	21.36			22.5	1.0
100	16QAM	1	1	21.44			22.5	1.0
100	64QAM	1	1	18.84			21.0	2.5
100	256QAM	1	1	13.11			13.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.11	22.40	22.09	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.11	22.35	22.07	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.08	22.38	22.14	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.05	22.42	22.10	23.5	0.0
Channel				649334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.07	22.35	22.11	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.02	22.37	22.10	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.03	22.44	22.07	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.08	22.45	22.05	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	658000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.81	16.03	15.86		
100	PI/2 BPSK	1	137	15.94	16.06	15.83	17.0	0.0
100	PI/2 BPSK	1	271	15.84	16.20	15.90		
100	PI/2 BPSK	135	0	15.95	16.13	15.87	17.0	0.0
100	PI/2 BPSK	135	69	15.98	16.13	15.91	17.0	0.0
100	PI/2 BPSK	135	138	15.96	16.10	15.82	17.0	0.0
100	PI/2 BPSK	270	0	15.87	16.04	15.90		
100	QPSK	1	1	16.24	16.35	16.20		
100	QPSK	1	137	15.87	16.07	15.85	17.0	0.0
100	QPSK	1	271	16.07	16.29	16.06		
100	QPSK	135	0	15.83	16.16	15.93	17.0	0.0
100	QPSK	135	69	15.83	16.16	15.79	17.0	0.0
100	QPSK	135	138	15.80	16.12	15.79		
100	QPSK	270	0	15.84	16.06	15.80	17.0	0.0
100	16QAM	1	1	15.78	16.11	15.86	17.0	0.0
100	64QAM	1	1	15.79	16.11	15.96	17.0	0.0
100	256QAM	1	1	16.18	16.21	16.12	17.0	0.0
Channel				649668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.18	16.25	16.15	17.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.08	16.26	16.15	17.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.20	16.16	16.06	17.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.12	16.25	16.15	17.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.10	16.22	16.16	17.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.09	16.23	16.15	17.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.15	16.22	16.04	17.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.12	16.15	16.14	17.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.90	19.06	18.73		
100	PI/2 BPSK	1	137	18.94	19.09	18.79	20.0	0.0
100	PI/2 BPSK	1	271	18.79	18.99	18.68		
100	PI/2 BPSK	135	0	18.95	19.00	18.79	20.0	0.0
100	PI/2 BPSK	135	69	18.96	19.10	18.76	20.0	0.0
100	PI/2 BPSK	135	138	18.92	19.01	18.80	20.0	0.0
100	PI/2 BPSK	270	0	18.91	19.06	18.78		
100	QPSK	1	1	19.08	19.22	18.95		
100	QPSK	1	137	18.88	19.08	18.73	20.0	0.0
100	QPSK	1	271	18.99	19.16	19.04		
100	QPSK	135	0	18.84	18.99	18.80	20.0	0.0
100	QPSK	135	69	18.87	19.11	18.73	20.0	0.0
100	QPSK	135	138	18.78	19.01	18.87	20.0	0.0
100	QPSK	270	0	18.84	18.89	18.79	20.0	0.0
100	16QAM	1	1	18.90	19.03	18.84	20.0	0.0
100	64QAM	1	1	18.94	18.97	18.70	20.0	0.0
100	256QAM	1	1	18.79	19.04	18.60	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.73	19.01	18.57	20.0	0.0
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.82	18.96	18.64	20.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.76	18.96	18.58	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.76	19.00	18.57	20.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.72	19.02	18.67	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.81	19.02	18.64	20.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.82	19.06	18.68	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.72	19.06	18.60	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	15.89			17.0	0.0	
100	PI/2 BPSK	1	137	15.95					
100	PI/2 BPSK	1	271	16.08					
100	PI/2 BPSK	135	0	15.97			17.0	0.0	
100	PI/2 BPSK	135	69	16.00			17.0	0.0	
100	PI/2 BPSK	135	138	15.92					
100	PI/2 BPSK	270	0	15.97			17.0	0.0	
100	QPSK	1	1	16.21					
100	QPSK	1	137	15.91			17.0	0.0	
100	QPSK	1	271	16.20					
100	QPSK	135	0	16.00			17.0	0.0	
100	QPSK	135	69	16.01			17.0	0.0	
100	QPSK	135	138	15.94					
100	QPSK	270	0	15.89			17.0	0.0	
100	16QAM	1	1	15.92			17.0	0.0	
100	64QAM	1	1	15.92			17.0	0.0	
100	256QAM	1	1	16.04			17.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.99	16.08	15.98	17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.99	16.11	16.04	17.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738	3750	3765			
70	QPSK	1	1	15.99	16.14	16.01	17.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	16.07	16.09	16.05	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.07	16.18	15.99	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.04	16.17	16.02	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	16.09	16.08	15.99	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.05	16.16	16.07	17.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	18.96					
100	PI/2 BPSK	1	137	18.91			20.0	0.0	
100	PI/2 BPSK	1	271	18.86					
100	PI/2 BPSK	135	0	18.82			20.0	0.0	
100	PI/2 BPSK	135	69	19.00			20.0	0.0	
100	PI/2 BPSK	135	138	18.86					
100	PI/2 BPSK	270	0	18.96			20.0	0.0	
100	QPSK	1	1	19.11					
100	QPSK	1	137	18.95			20.0	0.0	
100	QPSK	1	271	18.98					
100	QPSK	135	0	18.90			20.0	0.0	
100	QPSK	135	69	19.01			20.0	0.0	
100	QPSK	135	138	18.82					
100	QPSK	270	0	18.91			20.0	0.0	
100	16QAM	1	1	18.95			20.0	0.0	
100	64QAM	1	1	18.83			20.0	0.0	
100	256QAM	1	1	19.05			20.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.54	18.85	18.47	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.61	18.93	18.47	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738	3750	3765			
70	QPSK	1	1	18.59	18.85	18.41	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.55	18.83	18.44	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.60	18.93	18.46	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.57	18.86	18.47	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.62	18.89	18.47	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.64	18.93	18.44	20.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	658000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.30	16.31	16.24		
100	PI/2 BPSK	1	137	16.31	16.37	16.21	17.6	0.0
100	PI/2 BPSK	1	271	16.32	16.32	16.22		
100	PI/2 BPSK	135	0	16.22	16.38	16.25	17.6	0.0
100	PI/2 BPSK	135	69	16.21	16.30	16.19	17.6	0.0
100	PI/2 BPSK	135	138	16.27	16.30	16.17		
100	PI/2 BPSK	270	0	16.27	16.39	16.25	17.6	0.0
100	QPSK	1	1	16.42	16.49	16.37		
100	QPSK	1	137	16.32	16.36	16.22	17.6	0.0
100	QPSK	1	271	16.26	16.36	16.19		
100	QPSK	135	0	16.26	16.38	16.21	17.6	0.0
100	QPSK	135	69	16.35	16.41	16.30	17.6	0.0
100	QPSK	135	138	16.24	16.30	16.19		
100	QPSK	270	0	16.31	16.38	16.24	17.6	0.0
100	16QAM	1	1	16.21	16.31	16.27	17.6	0.0
100	64QAM	1	1	16.22	16.35	16.28	17.6	0.0
100	256QAM	1	1	14.82	14.88	14.74	16.0	1.6
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.25	16.38	16.17	17.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.31	16.36	16.23	17.6	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.32	16.34	16.17	17.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.31	16.37	16.25	17.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.23	16.35	16.28	17.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.25	16.35	16.20	17.6	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.24	16.28	16.18	17.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.29	16.30	16.25	17.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.22	19.20	19.19		
100	PI/2 BPSK	1	137	19.20	19.19	19.19	20.6	0.0
100	PI/2 BPSK	1	271	19.14	19.20	19.13		
100	PI/2 BPSK	135	0	19.20	19.28	19.20	20.6	0.0
100	PI/2 BPSK	135	69	19.24	19.18	19.12	20.6	0.0
100	PI/2 BPSK	135	138	19.20	19.23	19.11		
100	PI/2 BPSK	270	0	19.15	19.17	19.17	20.6	0.0
100	QPSK	1	1	19.33	19.38	19.29		
100	QPSK	1	137	19.17	19.22	19.19	20.6	0.0
100	QPSK	1	271	19.20	19.23	19.17		
100	QPSK	135	0	19.16	19.20	19.13	20.6	0.0
100	QPSK	135	69	19.29	19.31	19.15	20.6	0.0
100	QPSK	135	138	19.12	19.19	19.08		
100	QPSK	270	0	19.25	19.26	19.17	20.6	0.0
100	16QAM	1	1	19.22	19.18	19.19	20.6	0.0
100	64QAM	1	1	19.13	19.22	19.11	20.6	0.0
100	256QAM	1	1	17.72	17.83	17.83	19.0	1.6
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.22	19.27	19.12	20.6	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.14	19.17	19.08	20.6	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.19	19.25	19.18	20.6	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.19	19.19	19.09	20.6	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.23	19.18	19.08	20.6	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.20	19.24	19.15	20.6	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.16	19.21	19.16	20.6	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.18	19.28	19.19	20.6	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000				
100	Pi/2 BPSK	1	1	16.13				
100	Pi/2 BPSK	1	137	16.27			17.6	0.0
100	Pi/2 BPSK	1	271	16.23				
100	Pi/2 BPSK	135	0	16.26			17.6	0.0
100	Pi/2 BPSK	135	69	16.17			17.6	0.0
100	Pi/2 BPSK	135	138	16.11			17.6	0.0
100	Pi/2 BPSK	270	0	16.22				
100	QPSK	1	1	16.34				
100	QPSK	1	137	16.23			17.6	0.0
100	QPSK	1	271	16.24				
100	QPSK	135	0	16.21			17.6	0.0
100	QPSK	135	69	16.28			17.6	0.0
100	QPSK	135	138	16.19			17.6	0.0
100	QPSK	270	0	16.24				
100	16QAM	1	1	16.19			17.6	0.0
100	64QAM	1	1	16.19			17.6	0.0
100	256QAM	1	1	14.50			16.0	1.6
Channel								
Frequency (MHz)								
				649668	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	16.16	16.25	16.08	17.6	0.0
Channel								
Frequency (MHz)								
				649334	650000	650668	Tune-up limit	MPR
				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	16.16	16.28	16.07	17.6	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	16.07	16.27	16.04	17.6	0.0
Channel								
Frequency (MHz)								
				648668	650000	651334	Tune-up limit	MPR
				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	16.13	16.26	16.04	17.6	0.0
Channel								
Frequency (MHz)								
				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	16.09	16.26	16.01	17.6	0.0
Channel								
Frequency (MHz)								
				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	16.16	16.27	16.00	17.6	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit	MPR
				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	16.13	16.25	16.05	17.6	0.0
Channel								
Frequency (MHz)								
				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	16.16	16.20	16.02	17.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000				
100	Pi/2 BPSK	1	1	19.03				
100	Pi/2 BPSK	1	137	19.01			20.6	0.0
100	Pi/2 BPSK	1	271	19.10				
100	Pi/2 BPSK	135	0	19.20			20.6	0.0
100	Pi/2 BPSK	135	69	19.02			20.6	0.0
100	Pi/2 BPSK	135	138	19.12			20.6	0.0
100	Pi/2 BPSK	270	0	19.00				
100	QPSK	1	1	19.27				
100	QPSK	1	137	19.12			20.6	0.0
100	QPSK	1	271	19.11				
100	QPSK	135	0	19.04			20.6	0.0
100	QPSK	135	69	19.21			20.6	0.0
100	QPSK	135	138	19.00			20.6	0.0
100	QPSK	270	0	19.10				
100	16QAM	1	1	19.01			20.6	0.0
100	64QAM	1	1	19.12			20.6	0.0
100	256QAM	1	1	17.61			13.0	1.5
Channel								
Frequency (MHz)								
				649668	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	19.04	19.18	18.99	20.6	0.0
Channel								
Frequency (MHz)								
				649334	650000	650668	Tune-up limit	MPR
				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	19.11	19.10	19.01	20.6	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	19.08	19.12	19.04	20.6	0.0
Channel								
Frequency (MHz)								
				648668	650000	651334	Tune-up limit	MPR
				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	19.11	19.15	19.01	20.6	0.0
Channel								
Frequency (MHz)								
				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	19.14	19.20	18.94	20.6	0.0
Channel								
Frequency (MHz)								
				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	19.04	19.17	18.94	20.6	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit	MPR
				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	19.13	19.09	18.96	20.6	0.0
Channel								
Frequency (MHz)								
				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	19.04	19.20	18.95	20.6	0.0