



Reduced Power Mode for Main PA DSI6

n2 Main PA Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.88	21.94	21.79	23.0	0.0
20	PI2 BPSK	1	53	21.82	21.98	21.87	23.0	0.0
20	PI2 BPSK	1	104	21.72	21.91	21.89	23.0	0.0
20	PI2 BPSK	50	0	21.77	21.84	21.72	23.0	0.0
20	PI2 BPSK	50	28	21.80	21.81	21.92	23.0	0.0
20	PI2 BPSK	50	58	21.77	21.94	21.71	23.0	0.0
20	PI2 BPSK	100	0	21.84	21.86	21.78	23.0	0.0
20	QPSK	1	1	21.82	22.06	21.84	23.0	0.0
20	QPSK	1	53	21.83	21.92	21.84	23.0	0.0
20	QPSK	1	104	21.93	21.84	21.78	23.0	0.0
20	QPSK	50	0	21.73	21.74	21.79	23.0	0.0
20	QPSK	50	28	21.77	21.88	21.74	23.0	0.0
20	QPSK	50	58	21.81	21.83	21.81	23.0	0.0
20	QPSK	100	0	22.02	22.04	21.68	23.0	0.0
20	16QAM	1	1	21.72	21.76	21.89	23.0	0.0
20	64QAM	1	1	20.97	21.16	21.08	22.0	1.0
20	256QAM	1	1	18.56	18.67	18.60	20.0	3.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.91	21.87	21.69	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.79	21.94	21.78	23.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.91	21.99	21.64	23.0	0.0

n5 Main PA Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.73	22.92	22.87	24.0	0.0
20	PI2 BPSK	1	53	22.76	22.86	22.73	24.0	0.0
20	PI2 BPSK	1	104	22.70	22.88	22.74	24.0	0.0
20	PI2 BPSK	50	0	22.70	22.87	22.74	24.0	0.0
20	PI2 BPSK	50	28	22.88	22.95	22.81	24.0	0.0
20	PI2 BPSK	50	58	22.80	22.90	22.88	24.0	0.0
20	PI2 BPSK	100	0	22.87	22.94	22.78	24.0	0.0
20	QPSK	1	1	23.31	23.34	23.12	24.0	0.0
20	QPSK	1	53	22.82	22.82	22.73	24.0	0.0
20	QPSK	1	104	22.77	22.80	22.62	24.0	0.0
20	QPSK	50	0	22.74	22.93	22.82	24.0	0.0
20	QPSK	50	28	23.21	23.23	23.22	24.0	0.0
20	QPSK	50	58	22.88	22.88	22.88	24.0	0.0
20	QPSK	100	0	23.21	23.29	23.22	24.0	0.0
20	16QAM	1	1	22.83	22.98	22.89	24.0	0.0
20	64QAM	1	1	22.13	22.14	21.93	23.0	1.0
20	256QAM	1	1	19.31	19.43	19.28	21.0	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.19	23.05	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.11	23.25	22.94	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.24	23.29	23.12	24.0	0.0

n7 Main PA Ant0 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	19.70	19.93	19.74	21.1	0.0
40	PI2 BPSK	1	108	20.11	19.91	19.99	21.1	0.0
40	PI2 BPSK	1	214	20.01	19.98	19.80	21.1	0.0
40	PI2 BPSK	108	0	19.75	19.86	19.53	21.1	0.0
40	PI2 BPSK	108	54	19.68	19.94	19.74	21.1	0.0
40	PI2 BPSK	108	108	19.94	19.94	20.02	21.1	0.0
40	PI2 BPSK	216	0	19.61	19.95	19.81	21.1	0.0
40	QPSK	1	1	20.09	20.18	20.14	21.1	0.0
40	QPSK	1	108	19.72	19.80	19.71	21.1	0.0
40	QPSK	1	214	19.67	19.88	19.73	21.1	0.0
40	QPSK	108	0	19.67	19.95	19.67	21.1	0.0
40	QPSK	108	54	20.02	20.07	20.04	21.1	0.0
40	QPSK	108	108	19.93	20.02	19.94	21.1	0.0
40	QPSK	216	0	20.01	20.04	19.99	21.1	0.0
40	16QAM	1	1	19.83	20.04	19.83	21.1	0.0
40	64QAM	1	1	19.88	19.98	19.89	21.1	0.0
40	256QAM	1	1	19.29	19.34	19.28	20.1	1.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	20.02	19.89	19.75	21.1	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	20.07	20.09	19.77	21.1	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	19.88	20.04	19.78	21.1	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.98	20.04	19.81	21.1	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.02	20.09	19.87	21.1	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.02	19.91	19.90	21.1	0.0



n26 Main PA Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	837		
20	PI/2 BPSK	1	1	23.07	23.08	22.97	24.0	0.0
20	PI/2 BPSK	1	53	22.98	23.07	22.91	24.0	0.0
20	PI/2 BPSK	1	104	22.93	22.94	22.89	24.0	0.0
20	PI/2 BPSK	50	0	23.02	23.11	23.09	24.0	0.0
20	PI/2 BPSK	50	28	23.07	23.06	22.97	24.0	0.0
20	PI/2 BPSK	50	56	22.76	22.98	22.91	24.0	0.0
20	PI/2 BPSK	100	0	23.08	23.08	23.06	24.0	0.0
20	QPSK	1	1	23.15	23.17	23.13	24.0	0.0
20	QPSK	1	53	22.96	23.07	22.99	24.0	0.0
20	QPSK	1	104	22.91	22.94	22.94	24.0	0.0
20	QPSK	50	0	22.93	23.11	22.86	24.0	0.0
20	QPSK	50	28	23.12	23.15	22.91	24.0	0.0
20	QPSK	50	56	22.84	22.98	22.77	24.0	0.0
20	QPSK	100	0	23.05	23.10	22.94	24.0	0.0
20	16QAM	1	1	22.72	22.76	22.62	24.0	0.0
20	64QAM	1	1	22.53	22.62	22.53	23.0	1.0
20	256QAM	1	1	19.66	19.72	19.52	21.0	3.0
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.99	23.05	23.14	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.12	23.16	23.05	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.02	23.05	22.93	24.0	0.0

n66 Main PA Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.68	21.66	21.59	23.0	0.0
40	PI/2 BPSK	1	108	21.51	21.50	21.40	23.0	0.0
40	PI/2 BPSK	1	214	21.43	21.57	21.38	23.0	0.0
40	PI/2 BPSK	108	0	21.42	21.57	21.39	23.0	0.0
40	PI/2 BPSK	108	54	21.50	21.51	21.40	23.0	0.0
40	PI/2 BPSK	108	108	21.42	21.58	21.38	23.0	0.0
40	PI/2 BPSK	216	0	21.28	21.48	21.38	23.0	0.0
40	QPSK	1	1	21.89	21.73	21.67	23.0	0.0
40	QPSK	1	108	21.36	21.49	21.29	23.0	0.0
40	QPSK	1	214	21.52	21.62	21.61	23.0	0.0
40	QPSK	108	0	21.42	21.59	21.40	23.0	0.0
40	QPSK	108	54	21.67	21.72	21.61	23.0	0.0
40	QPSK	108	108	21.52	21.63	21.62	23.0	0.0
40	QPSK	216	0	21.63	21.66	21.62	23.0	0.0
40	16QAM	1	1	21.44	21.52	21.31	23.0	0.0
40	64QAM	1	1	20.74	20.74	20.59	22.0	1.0
40	256QAM	1	1	18.47	18.52	18.38	20.0	3.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.60	21.84	21.53	23.0	0.0
Channel				345000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.64	21.72	21.47	23.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.56	21.55	21.55	23.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.88	21.89	21.67	23.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.61	21.60	21.49	23.0	0.0



n38 Main PA Ant0 DS16							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519300	519696	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI2 BPSK	1	1	20.29	20.30	20.12	
40	PI2 BPSK	1	53	20.10	20.52	20.03	21.4
40	PI2 BPSK	1	104	20.11	20.15	20.05	
40	PI2 BPSK	50	0	20.07	20.28	20.11	21.4
40	PI2 BPSK	50	28	20.28	20.35	20.03	21.4
40	PI2 BPSK	50	56	20.20	20.21	20.14	21.4
40	PI2 BPSK	100	0	20.06	20.25	20.22	
40	QPSK	1	1	20.19	20.38	20.00	
40	QPSK	1	53	20.29	20.17	20.00	21.4
40	QPSK	1	104	20.12	20.15	20.12	
40	QPSK	50	0	20.09	20.28	20.17	21.4
40	QPSK	50	28	20.20	20.37	20.14	21.4
40	QPSK	80	56	20.10	20.28	20.18	21.4
40	QPSK	100	0	20.27	20.35	20.14	
40	16QAM	1	1	20.27	20.30	20.23	21.4
40	16QAM	1	1	20.14	20.31	20.05	21.4
40	256QAM	1	1	17.70	17.79	17.58	18.9
Channel				517002	519000	520998	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	20.21	20.18	20.08	21.4
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2530	2595	2610	
20	QPSK	1	1	20.07	20.27	20.15	21.4
Channel				515502	519000	522498	Tune-up limit (dBm)
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	20.20	20.25	20.13	21.4
Channel				515004	519000	522998	Tune-up limit (dBm)
Frequency (MHz)				2672.02	2595	2614.98	
10	QPSK	1	1	20.10	20.36	20.12	21.4

n41 Main PA Ant0 DS16							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				526202	518998	529200	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI2 BPSK	1	1	20.25	20.35	20.02	
100	PI2 BPSK	1	137	20.12	20.25	20.01	21.4
100	PI2 BPSK	1	271	20.09	20.22	20.04	
100	PI2 BPSK	135	0	20.26	20.22	20.19	21.4
100	PI2 BPSK	135	69	20.21	20.18	20.09	21.4
100	PI2 BPSK	135	138	20.10	20.29	20.04	21.4
100	PI2 BPSK	270	0	20.08	20.29	20.02	
100	QPSK	1	1	20.27	20.38	20.07	
100	QPSK	1	137	20.27	20.17	20.19	21.4
100	QPSK	1	271	20.16	20.17	20.00	
100	QPSK	135	0	20.29	20.23	20.18	21.4
100	QPSK	135	69	20.26	20.33	20.09	21.4
100	QPSK	135	138	20.08	20.27	20.11	21.4
100	QPSK	270	0	20.15	20.25	20.04	
100	16QAM	1	1	20.19	20.16	20.19	21.4
100	16QAM	1	1	20.24	20.24	20.12	21.4
100	256QAM	1	1	19.64	19.68	19.47	20.9
Channel				526200	518998	529198	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	20.18	20.24	20.11	21.4
Channel				507204	518998	529998	Tune-up limit (dBm)
Frequency (MHz)				2538.02	2592.99	2649.99	
80	QPSK	1	1	20.06	20.35	20.05	21.4
Channel				506202	518998	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	20.19	20.18	20.13	21.4
Channel				505200	518998	531998	Tune-up limit (dBm)
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	20.14	20.32	20.10	21.4
Channel				504204	518998	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	20.19	20.24	20.02	21.4
Channel				503202	518998	533000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	20.27	20.27	20.17	21.4
Channel				502200	518998	534998	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	20.23	20.21	20.09	21.4
Channel				501204	518998	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	20.24	20.30	20.01	21.4



n2 Main PA Ant1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.13	19.06	19.10			
20	PI2 BPSK	1	53	18.96	19.12	18.92	20.2	0.0	
20	PI2 BPSK	1	104	18.94	19.20	19.01	20.2	0.0	
20	PI2 BPSK	50	0	19.10	19.15	19.91	20.2	0.0	
20	PI2 BPSK	50	28	18.95	19.21	19.12	20.2	0.0	
20	PI2 BPSK	50	56	19.07	19.09	19.10	20.2	0.0	
20	PI2 BPSK	100	0	19.04	19.11	18.90			
20	QPSK	1	1	19.13	19.23	19.12			
20	QPSK	1	53	19.15	19.15	19.99	20.2	0.0	
20	QPSK	1	104	19.13	19.11	18.98			
20	QPSK	50	0	19.07	19.05	18.96	20.2	0.0	
20	QPSK	50	28	18.96	19.17	19.09	20.2	0.0	
20	QPSK	50	56	19.06	19.05	18.93			
20	QPSK	100	0	19.02	19.15	19.09	20.2	0.0	
20	16QAM	1	1	18.93	18.99	19.09	20.2	0.0	
20	16QAM	1	1	18.97	18.16	19.00	20.2	0.0	
20	256QAM	1	1	18.48	18.53	18.43	19.7	0.5	
Channel				371500	376000	376500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	18.94	19.06	19.09	20.2	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1905	1930	1905			
10	QPSK	1	1	19.02	19.03	19.13	20.2	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	19.04	19.19	18.91	20.2	0.0	

n5 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166600	167300	167900			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.45	22.55	22.37			
20	PI2 BPSK	1	53	22.39	22.46	22.31	24.0	0.0	
20	PI2 BPSK	1	104	22.27	22.36	22.39			
20	PI2 BPSK	50	0	22.53	22.59	22.59	24.0	0.0	
20	PI2 BPSK	50	28	22.44	22.51	22.37	24.0	0.0	
20	PI2 BPSK	50	56	22.35	22.48	22.43	24.0	0.0	
20	PI2 BPSK	100	0	22.44	22.51	22.41			
20	QPSK	1	1	22.61	22.76	22.58			
20	QPSK	1	53	22.29	22.51	22.38	24.0	0.0	
20	QPSK	1	104	22.27	22.46	22.46			
20	QPSK	50	0	22.49	22.58	22.55	24.0	0.0	
20	QPSK	50	28	22.55	22.59	22.56	24.0	0.0	
20	QPSK	50	56	22.37	22.56	22.51			
20	QPSK	100	0	22.54	22.58	22.50	24.0	0.0	
20	16QAM	1	1	22.60	22.68	22.66	24.0	0.0	
20	16QAM	1	1	21.12	21.12	21.04	23.0	1.0	
20	256QAM	1	1	19.32	19.36	19.22	21.0	3.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.42	22.64	22.40	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				826	836.5	844			
10	QPSK	1	1	22.60	22.65	22.40	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.42	22.61	22.45	24.0	0.0	



n7 Main PA Ant1 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509500	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.42	20.53	20.66			
40	PI2 BPSK	1	108	20.49	20.54	20.67		0.0	
40	PI2 BPSK	1	214	20.41	20.52	20.49			
40	PI2 BPSK	108	0	20.49	20.65	20.47	21.7	0.0	
40	PI2 BPSK	108	54	20.40	20.63	20.66	21.7	0.0	
40	PI2 BPSK	108	108	20.41	20.59	20.54	21.7	0.0	
40	PI2 BPSK	216	0	20.54	20.47	20.53			
40	QPSK	1	1	20.55	20.69	20.80			
40	QPSK	1	108	20.58	20.51	20.60	21.7	0.0	
40	QPSK	1	214	20.61	20.55	20.54			
40	QPSK	108	0	20.52	20.62	20.45	21.7	0.0	
40	QPSK	108	54	20.42	20.66	20.51	21.7	0.0	
40	QPSK	108	108	20.60	20.66	20.56	21.7	0.0	
40	QPSK	216	0	20.44	20.57	20.56			
40	16QAM	1	1	20.42	20.61	20.63	21.7	0.0	
40	16QAM	1	1	20.47	20.64	20.51	21.7	0.0	
40	256QAM	1	1	19.93	20.03	19.87	21.2	0.5	
Channel				509500	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	20.45	20.50	20.58	21.7	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	20.55	20.61	20.44	21.7	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	20.60	20.57	20.54	21.7	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.45	20.49	20.55	21.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.42	20.65	20.57	21.7	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.56	20.61	20.53	21.7	0.0	

n26 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	163300	167900			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.94	22.97	22.82			
20	PI2 BPSK	1	53	22.87	22.93	22.86			
20	PI2 BPSK	1	104	22.83	22.82	22.65	24.0	0.0	
20	PI2 BPSK	50	0	22.91	23.05	22.99	24.0	0.0	
20	PI2 BPSK	50	28	23.00	23.02	22.83	24.0	0.0	
20	PI2 BPSK	50	56	22.91	22.91	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.96	23.04	22.94			
20	QPSK	1	1	22.91	23.17	22.97			
20	QPSK	1	53	22.76	22.86	22.76	24.0	0.0	
20	QPSK	1	104	22.74	22.76	22.55			
20	QPSK	50	0	22.96	23.14	23.03	24.0	0.0	
20	QPSK	50	28	23.10	23.15	22.93	24.0	0.0	
20	QPSK	50	56	22.72	22.89	22.69	24.0	0.0	
20	QPSK	100	0	22.88	23.05	22.87			
20	16QAM	1	1	22.93	23.06	22.91	24.0	0.0	
20	16QAM	1	1	21.19	21.22	21.03	23.0	1.0	
20	256QAM	1	1	19.87	19.88	19.86	21.0	3.0	
Channel				164300	163300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.77	22.97	22.91	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				810	831.5	844			
10	QPSK	1	1	22.75	23.11	22.96	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.82	22.98	22.83	24.0	0.0	

n66 Main PA Ant1 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.24	18.24	18.36			
40	PI2 BPSK	1	108	18.22	18.31	18.16			
40	PI2 BPSK	1	214	18.31	18.26	18.26	19.7	0.0	
40	PI2 BPSK	108	0	18.20	18.24	18.16	19.7	0.0	
40	PI2 BPSK	108	54	18.21	18.21	18.30	19.7	0.0	
40	PI2 BPSK	108	108	18.25	18.33	18.32	19.7	0.0	
40	PI2 BPSK	216	0	18.29	18.26	18.20			
40	QPSK	1	1	18.37	18.39	18.34			
40	QPSK	1	108	18.35	18.37	18.22	19.7	0.0	
40	QPSK	1	214	18.29	18.37	18.26			
40	QPSK	108	0	18.25	18.25	18.19	19.7	0.0	
40	QPSK	108	54	18.23	18.29	18.17	19.7	0.0	
40	QPSK	108	108	18.25	18.24	18.24	19.7	0.0	
40	QPSK	216	0	18.30	18.38	18.31			
40	16QAM	1	1	18.32	18.32	18.29	19.7	0.0	
40	16QAM	1	1	18.23	18.36	18.35	19.7	0.0	
40	256QAM	1	1	18.35	18.35	18.28	19.7	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.25	18.28	18.21	19.7	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.30	18.29	18.25	19.7	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.36	18.30	18.28	19.7	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.24	18.29	18.35	19.7	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.25	18.20	18.37	19.7	0.0	



n38 Main PA Ant1 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				51904	51900	51996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	20.23	20.58	20.25			
40	PI2 BPSK	1	53	20.38	20.44	20.42	21.2	0.0	
40	PI2 BPSK	1	104	20.39	20.46	20.29	21.2	0.0	
40	PI2 BPSK	50	0	20.27	20.36	20.28	21.2	0.0	
40	PI2 BPSK	50	28	20.45	20.36	20.45	21.2	0.0	
40	PI2 BPSK	50	56	20.40	20.43	20.30	21.2	0.0	
40	PI2 BPSK	100	0	20.34	20.47	20.36			
40	QPSK	1	1	20.31	20.59	20.35			
40	QPSK	1	53	20.40	20.35	20.34	21.2	0.0	
40	QPSK	1	104	20.29	20.58	20.34			
40	QPSK	50	0	20.38	20.46	20.23	21.2	0.0	
40	QPSK	50	28	20.45	20.53	20.24	21.2	0.0	
40	QPSK	50	56	20.41	20.47	20.26			
40	QPSK	100	0	20.23	20.52	20.40	21.2	0.0	
40	16QAM	1	1	20.40	20.53	20.36	21.2	0.0	
40	16QAM	1	1	20.35	20.52	20.36	21.2	0.0	
40	256QAM	1	1	18.69	18.75	18.65	19.2	2.0	
Channel				517002	51900	52096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	20.38	20.43	20.46	21.2	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	20.40	20.56	20.44	21.2	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.28	20.36	20.23	21.2	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	20.36	20.43	20.40	21.2	0.0	

n41 Main PA Ant1 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				52902	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.43	20.49	20.35			
100	PI2 BPSK	1	137	20.38	20.35	20.25	21.2	0.0	
100	PI2 BPSK	1	271	20.37	20.52	20.40			
100	PI2 BPSK	135	0	20.30	20.41	20.24	21.2	0.0	
100	PI2 BPSK	135	69	20.22	20.43	20.42	21.2	0.0	
100	PI2 BPSK	135	138	20.33	20.47	20.40	21.2	0.0	
100	PI2 BPSK	270	0	20.38	20.49	20.45			
100	QPSK	1	1	20.46	20.63	20.52			
100	QPSK	1	137	20.21	20.43	20.40	21.2	0.0	
100	QPSK	1	271	20.24	20.35	20.41			
100	QPSK	135	0	20.22	20.55	20.34	21.2	0.0	
100	QPSK	135	69	20.31	20.57	20.26	21.2	0.0	
100	QPSK	135	138	20.26	20.40	20.45			
100	QPSK	270	0	20.37	20.45	20.44	21.2	0.0	
100	16QAM	1	1	20.41	20.49	20.43	21.2	0.0	
100	16QAM	1	1	20.41	20.44	20.29	21.2	0.0	
100	256QAM	1	1	20.27	20.35	20.29	21.2	0.0	
Channel				52600	51898	52698	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.27	20.53	20.26	21.2	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2592.99	2643.99			
80	QPSK	1	1	20.27	20.42	20.25	21.2	0.0	
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.27	20.43	20.34	21.2	0.0	
Channel				505000	518998	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	20.29	20.44	20.34	21.2	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.30	20.43	20.23	21.2	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.34	20.47	20.41	21.2	0.0	
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	20.33	20.43	20.38	21.2	0.0	
Channel				501204	518998	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.21	20.52	20.25	21.2	0.0	



### n2 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.12	22.29	22.31		
20	PI2 BPSK	1	53	22.26	22.32	22.25	23.0	0.0
20	PI2 BPSK	1	104	22.19	22.21	22.01		
20	PI2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PI2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PI2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PI2 BPSK	100	0	22.29	22.32	22.21		
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32	23.0	0.0
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06		
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	16QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel								
Frequency (MHz)				37500	37600	38000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel								
Frequency (MHz)				37600	376000	381000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel								
Frequency (MHz)				37500	376000	381500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

### n7 Main PA Ant2

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	21.84	21.81	21.73		
40	PI2 BPSK	1	108	21.78	21.85	21.86	23.0	0.0
40	PI2 BPSK	1	214	21.75	21.82	21.73		
40	PI2 BPSK	108	0	21.79	21.82	21.78	23.0	0.0
40	PI2 BPSK	108	54	21.70	21.81	21.79	23.0	0.0
40	PI2 BPSK	108	108	21.67	21.86	21.71	23.0	0.0
40	PI2 BPSK	216	0	21.80	21.86	21.77		
40	QPSK	1	1	21.77	21.93	21.83		
40	QPSK	1	108	21.63	21.73	21.73	23.0	0.0
40	QPSK	1	214	21.76	21.78	21.60		
40	QPSK	108	0	21.68	21.74	21.73	23.0	0.0
40	QPSK	108	54	21.73	21.82	21.78	23.0	0.0
40	QPSK	108	108	21.62	21.79	21.64	23.0	0.0
40	QPSK	216	0	21.72	21.82	21.77		
40	16QAM	1	1	21.67	21.77	21.63	23.0	0.0
40	16QAM	1	1	20.33	20.47	20.25	22.0	1.0
40	256QAM	1	1	18.67	18.86	18.73	20.0	3.0
Channel								
Frequency (MHz)				50300	50700	51000	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	21.73	21.73	21.67	23.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	21.73	21.75	21.64	23.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
20	PI2 BPSK	1	1	21.83	21.77	21.83	23.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	21.70	21.74	21.71	23.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	21.63	21.83	21.60	23.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	21.65	21.73	21.71	23.0	0.0

### n66 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.01	22.01	21.98		
40	PI2 BPSK	1	108	21.79	21.87	21.85	23.0	0.0
40	PI2 BPSK	1	214	21.67	21.84	21.75		
40	PI2 BPSK	108	0	21.76	21.88	21.99	23.0	0.0
40	PI2 BPSK	108	54	21.69	21.89	21.78	23.0	0.0
40	PI2 BPSK	108	108	21.67	21.88	21.90	23.0	0.0
40	PI2 BPSK	216	0	21.73	21.94	21.91		
40	QPSK	1	1	22.04	22.25	22.01		
40	QPSK	1	108	21.73	21.76	21.71	23.0	0.0
40	QPSK	1	214	21.78	21.87	21.71		
40	QPSK	108	0	21.98	21.98	21.86	23.0	0.0
40	QPSK	108	54	21.81	22.06	21.91	23.0	0.0
40	QPSK	108	108	21.76	21.95	21.88	23.0	0.0
40	QPSK	216	0	21.97	22.04	21.92		
40	16QAM	1	1	21.74	21.91	21.85	23.0	0.0
40	16QAM	1	1	21.02	21.18	21.08	22.0	1.0
40	256QAM	1	1	18.85	18.99	18.86	20.0	3.0
Channel								
Frequency (MHz)				34300	34900	35000	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	21.94	22.09	22.02	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	21.89	22.07	21.90	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	21.83	22.19	22.03	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	21.87	22.16	21.93	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	21.90	22.07	21.84	23.0	0.0



n38 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	21.63	21.74	21.64		
40	PI2 BPSK	1	53	21.59	21.57	21.48	23.0	0.0
40	PI2 BPSK	1	104	21.70	21.89	21.67		
40	PI2 BPSK	50	0	21.16	21.32	21.15	22.5	0.0
40	PI2 BPSK	50	28	21.43	21.62	21.45	23.0	0.0
40	PI2 BPSK	50	56	21.04	21.23	21.21	22.5	0.5
40	PI2 BPSK	100	0	21.16	21.23	21.06		
40	QPSK	1	1	21.80	21.82	21.68		
40	QPSK	1	53	21.86	21.67	21.53	23.0	0.0
40	QPSK	1	104	21.60	21.70	21.54		
40	QPSK	50	0	20.70	20.89	20.52	22.0	1.0
40	QPSK	50	28	21.64	21.88	21.64	23.0	0.0
40	QPSK	50	56	20.73	20.72	20.64	22.0	1.0
40	QPSK	100	0	20.53	20.84	20.59		
40	16QAM	1	1	20.73	20.94	20.94	22.0	1.0
40	16QAM	1	1	19.07	19.29	19.08	20.5	2.5
40	256QAM	1	1	17.03	17.20	17.16	18.5	4.5
Channel				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.84	21.77	21.56	23.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.62	21.66	21.63	23.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.73	21.76	21.61	23.0	0.0
Channel				515004	516000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.73	21.83	21.67	23.0	0.0

n41 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				529002	518598	529000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	21.82	21.89	21.95		
100	PI2 BPSK	1	137	21.73	21.76	21.67	23.0	0.0
100	PI2 BPSK	1	274	21.42	21.63	21.46		
100	PI2 BPSK	135	0	21.86	21.90	21.78	23.0	0.0
100	PI2 BPSK	135	69	21.65	21.77	21.63	23.0	0.0
100	PI2 BPSK	135	138	21.64	21.68	21.64	23.0	0.0
100	PI2 BPSK	270	0	21.82	21.84	21.83		
100	QPSK	1	1	21.43	21.91	21.81		
100	QPSK	1	137	21.59	21.73	21.65	23.0	0.0
100	QPSK	1	274	21.47	21.60	21.60		
100	QPSK	135	0	21.60	21.78	21.70	23.0	0.0
100	QPSK	135	69	21.51	21.67	21.58	23.0	0.0
100	QPSK	135	138	21.44	21.62	21.54	23.0	0.0
100	QPSK	270	0	21.54	21.81	21.61		
100	16QAM	1	1	21.71	21.84	21.63	23.0	0.0
100	16QAM	1	1	21.43	21.47	21.29	22.0	1.0
100	256QAM	1	1	18.78	18.77	18.74	20.0	3.0
Channel				528000	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.27	21.83	21.69	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.24	21.76	21.73	23.0	0.0
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	21.22	21.81	21.76	23.0	0.0
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2592.99	2659.99		
60	QPSK	1	1	21.30	21.72	21.60	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.24	21.77	21.71	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.39	21.89	21.79	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	21.53	21.77	21.62	23.0	0.0
Channel				501404	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.31	21.87	21.66	23.0	0.0





### n2 Main PA Ant3 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.04	21.80	21.56		
20	PI2 BPSK	1	53	21.80	21.63	21.67	22.8	0.0
20	PI2 BPSK	1	104	21.84	21.76	21.80		
20	PI2 BPSK	50	0	21.56	21.76	21.62	22.8	0.0
20	PI2 BPSK	50	28	21.54	21.78	21.46	22.8	0.0
20	PI2 BPSK	50	56	21.67	21.59	21.68	22.8	0.0
20	PI2 BPSK	100	0	21.61	21.70	21.58		
20	QPSK	1	1	21.76	21.61	21.75		
20	QPSK	1	53	21.53	21.75	21.50	22.8	0.0
20	QPSK	1	104	21.69	21.68	21.51		
20	QPSK	50	0	21.49	21.58	21.48	22.8	0.0
20	QPSK	50	28	21.84	21.78	21.49	22.8	0.0
20	QPSK	50	56	21.54	21.67	21.55	22.8	0.0
20	QPSK	100	0	21.72	21.75	21.46		
20	16QAM	1	1	21.53	21.65	21.49	22.8	0.0
20	16QAM	1	1	21.60	21.61	21.70	22.8	0.0
20	256QAM	1	1	20.26	20.27	20.29	21.3	1.5
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dB)	MPR (dB)
Channel				37000	37600	38000		
15	QPSK	1	1	21.57	21.63	21.62	22.8	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				371000	376000	381000		
10	QPSK	1	1	21.60	21.67	21.49	22.8	0.0
Channel								
Frequency (MHz)				375000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				375000	376000	381000		
5	QPSK	1	1	21.63	21.80	21.66	22.8	0.0

### n7 Main PA Ant3 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	20.03	20.04	20.16		
40	PI2 BPSK	1	108	20.09	20.15	20.19	21.5	0.0
40	PI2 BPSK	1	214	20.03	20.06	20.15		
40	PI2 BPSK	108	0	20.08	20.13	19.98	21.5	0.0
40	PI2 BPSK	108	54	20.03	20.06	20.15	21.5	0.0
40	PI2 BPSK	108	108	20.19	20.04	20.01	21.5	0.0
40	PI2 BPSK	216	0	20.05	20.05	20.06		
40	QPSK	1	1	20.21	20.28	20.28		
40	QPSK	1	108	20.13	20.12	20.16	21.5	0.0
40	QPSK	1	214	20.20	20.08	20.07		
40	QPSK	108	0	20.20	20.05	20.15	21.5	0.0
40	QPSK	108	54	20.01	20.25	20.13	21.5	0.0
40	QPSK	108	108	20.16	20.18	20.14	21.5	0.0
40	QPSK	216	0	20.15	20.18	20.08		
40	16QAM	1	1	20.22	20.07	20.00	21.5	0.0
40	16QAM	1	1	20.15	20.24	20.17	21.5	0.0
40	256QAM	1	1	19.78	19.89	19.71	21.0	0.5
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Channel				50300	50700	51100		
30	QPSK	1	1	20.08	20.21	19.98	21.5	0.0
Channel								
Frequency (MHz)				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	511000		
25	QPSK	1	1	20.13	20.08	20.20	21.5	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
20	PI2 BPSK	1	1	20.07	20.12	20.08	21.5	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				501500	507000	512500		
15	QPSK	1	1	20.13	20.14	20.20	21.5	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				501000	507000	513000		
10	QPSK	1	1	20.19	20.16	20.04	21.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				500500	507000	513500		
5	QPSK	1	1	20.22	20.06	20.16	21.5	0.0

### n66 Main PA Ant3 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.65	21.61	21.37		
40	PI2 BPSK	1	108	21.62	21.66	21.55	22.5	0.0
40	PI2 BPSK	1	214	21.65	21.60	21.37		
40	PI2 BPSK	108	0	21.59	21.53	21.33	22.5	0.0
40	PI2 BPSK	108	54	21.45	21.46	21.31	22.5	0.0
40	PI2 BPSK	108	108	21.53	21.57	21.49	22.5	0.0
40	PI2 BPSK	216	0	21.58	21.53	21.39		
40	QPSK	1	1	21.60	21.66	21.57		
40	QPSK	1	108	21.45	21.67	21.38	22.5	0.0
40	QPSK	1	214	21.53	21.57	21.40		
40	QPSK	108	0	21.55	21.52	21.55	22.5	0.0
40	QPSK	108	54	21.48	21.67	21.36	22.5	0.0
40	QPSK	108	108	21.59	21.56	21.50	22.5	0.0
40	QPSK	216	0	21.61	21.63	21.34		
40	16QAM	1	1	21.60	21.49	21.40	22.5	0.0
40	16QAM	1	1	21.58	21.58	21.32	22.5	0.0
40	256QAM	1	1	19.93	19.94	19.78	21.0	1.5
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
Channel				34500	34900	35300		
30	QPSK	1	1	21.54	21.48	21.49	22.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000		
20	QPSK	1	1	21.61	21.53	21.32	22.5	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Channel				343500	349000	354500		
15	QPSK	1	1	21.55	21.60	21.45	22.5	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				343000	349000	355000		
10	QPSK	1	1	21.58	21.62	21.47	22.5	0.0
Channel								
Frequency (MHz)				342600	349000	355500	Tune-up limit (dBm)	MPR (dB)
Channel				342600	349000	355500		
5	QPSK	1	1	21.57	21.50	21.48	22.5	0.0



n38 Main PA Ant3 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	20.11	20.14	19.99			
40	PI2 BPSK	1	53	20.09	20.13	20.03	21.1	0.0	
40	PI2 BPSK	1	104	19.98	19.98	19.98	21.1	0.0	
40	PI2 BPSK	50	0	19.98	20.21	19.93	21.1	0.0	
40	PI2 BPSK	50	28	20.02	20.08	19.99	21.1	0.0	
40	PI2 BPSK	50	56	20.06	20.15	19.99	21.1	0.0	
40	PI2 BPSK	100	0	20.09	20.18	20.04			
40	QPSK	1	1	20.19	20.24	20.12	21.1	0.0	
40	QPSK	1	53	20.04	20.04	19.88			
40	QPSK	1	104	20.02	20.15	19.98			
40	QPSK	50	0	20.09	20.17	20.06	21.1	0.0	
40	QPSK	50	28	20.16	20.18	19.96	21.1	0.0	
40	QPSK	50	56	20.04	20.04	19.91	21.1	0.0	
40	QPSK	100	0	20.09	20.17	19.97			
40	16QAM	1	1	20.10	20.15	19.89	21.1	0.0	
40	16QAM	1	1	20.02	20.14	19.98	21.1	0.0	
40	256QAM	1	1	18.28	18.44	18.30	19.1	2.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	20.02	20.07	19.99	21.1	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	20.06	20.10	20.06	21.1	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	20.11	20.13	19.95	21.1	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2573.02	2595	2614.98			
10	QPSK	1	1	19.98	20.05	19.95	21.1	0.0	

n41 Main PA Ant3 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				529002	518598	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.94	20.01	19.94			
100	PI2 BPSK	1	137	20.12	20.18	19.89	21.1	0.0	
100	PI2 BPSK	1	271	19.94	20.00	20.05	21.1	0.0	
100	PI2 BPSK	135	0	20.11	20.17	20.05			
100	PI2 BPSK	135	69	19.98	20.16	19.92	21.1	0.0	
100	PI2 BPSK	135	138	19.98	20.07	19.95	21.1	0.0	
100	PI2 BPSK	270	0	20.17	20.20	19.91			
100	QPSK	1	1	20.18	20.26	20.08			
100	QPSK	1	137	20.11	20.17	19.96	21.1	0.0	
100	QPSK	1	271	20.01	20.00	19.97			
100	QPSK	135	0	20.02	20.04	19.97	21.1	0.0	
100	QPSK	135	69	20.15	20.22	20.02	21.1	0.0	
100	QPSK	135	138	20.14	20.20	19.96	21.1	0.0	
100	QPSK	270	0	20.08	20.17	19.95			
100	16QAM	1	1	20.17	19.99	20.07	21.1	0.0	
100	16QAM	1	1	20.04	20.07	19.96	21.1	0.0	
100	256QAM	1	1	20.18	20.21	20.21	21.1	0.0	
Channel				528000	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.03	20.12	19.91	21.1	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2592.99	2643.99			
80	QPSK	1	1	19.95	20.13	19.90	21.1	0.0	
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	19.99	20.09	19.93	21.1	0.0	
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	19.97	20.08	19.90	21.1	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.09	20.11	20.08	21.1	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.14	20.17	20.03	21.1	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	20.03	20.02	20.05	21.1	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.04	20.11	20.03	21.1	0.0	



Reduced Power Mode for Main PA DSI9

n2 Main PA Ant0 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1890	1920		
20	PI2 BPSK	1	1	17.47	17.53	17.19		
20	PI2 BPSK	1	53	17.24	17.48	17.08	18.8	0.0
20	PI2 BPSK	1	104	17.37	17.42	17.04		
20	PI2 BPSK	50	0	17.25	17.56	17.27	18.8	0.0
20	PI2 BPSK	50	28	17.47	17.51	17.05	18.8	0.0
20	PI2 BPSK	50	56	17.45	17.56	17.27		
20	PI2 BPSK	100	0	17.34	17.53	17.21	18.8	0.0
20	QPSK	1	1	17.46	17.61	17.26		
20	QPSK	1	53	17.48	17.43	17.14	18.8	0.0
20	QPSK	1	104	17.28	17.52	17.25		
20	QPSK	50	0	17.26	17.46	17.22	18.8	0.0
20	QPSK	50	28	17.48	17.58	17.24	18.8	0.0
20	QPSK	50	56	17.42	17.55	17.11	18.8	0.0
20	QPSK	100	0	17.27	17.56	17.22		
20	16QAM	1	1	17.40	17.58	17.24	18.8	0.0
20	64QAM	1	1	17.36	17.40	17.16	18.8	0.0
20	256QAM	1	1	17.41	17.59	17.05	18.8	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	17.42	17.40	17.18	18.0	0.0
Channel				371000	375000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	17.25	17.59	17.07	18.8	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1825	1880	1907.5		
5	QPSK	1	1	17.25	17.56	17.17	18.8	0.0

n5 Main PA Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.73	22.92	22.87		
20	PI2 BPSK	1	53	22.76	22.86	22.73	24.0	0.0
20	PI2 BPSK	1	104	22.70	22.88	22.74		
20	PI2 BPSK	50	0	22.70	22.87	22.74	24.0	0.0
20	PI2 BPSK	50	28	22.88	22.95	22.81	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.90	22.88		
20	PI2 BPSK	100	0	22.87	22.94	22.76	24.0	0.0
20	QPSK	1	1	23.31	23.34	23.12		
20	QPSK	1	53	22.82	22.82	22.73	24.0	0.0
20	QPSK	1	104	22.77	22.80	22.62		
20	QPSK	50	0	22.74	22.93	22.82	24.0	0.0
20	QPSK	50	28	23.21	23.23	23.22	24.0	0.0
20	QPSK	50	56	22.88	22.88	22.88	24.0	0.0
20	QPSK	100	0	23.21	23.29	23.22		
20	16QAM	1	1	22.83	22.98	22.89	24.0	0.0
20	64QAM	1	1	22.13	22.14	21.93	23.0	1.0
20	256QAM	1	1	19.31	19.43	19.28	21.0	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.19	23.05	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.11	23.25	22.94	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.24	23.29	23.12	24.0	0.0

n7 Main PA Ant0 DSI9

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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	16.94	17.03	17.02		
40	PI2 BPSK	1	108	17.05	16.97	16.98	18.0	0.0
40	PI2 BPSK	1	214	16.96	16.99	17.03		
40	PI2 BPSK	108	0	17.08	16.94	16.99	18.0	0.0
40	PI2 BPSK	108	54	16.95	17.00	17.00	18.0	0.0
40	PI2 BPSK	108	108	17.08	16.94	17.07		
40	PI2 BPSK	216	0	17.12	17.13	17.04	18.0	0.0
40	QPSK	1	1	17.12	17.14	17.06		
40	QPSK	1	108	17.05	16.95	16.86	18.0	0.0
40	QPSK	1	214	17.13	17.10	16.88		
40	QPSK	108	0	17.10	17.02	16.86	18.0	0.0
40	QPSK	108	54	17.11	17.12	16.93	18.0	0.0
40	QPSK	108	108	16.94	17.11	16.98		
40	QPSK	216	0	17.05	17.10	17.04	18.0	0.0
40	16QAM	1	1	17.03	17.10	16.96	18.0	0.0
40	64QAM	1	1	16.94	17.01	16.90	18.0	0.0
40	256QAM	1	1	17.09	17.02	16.93	18.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.02	17.13	16.89	18.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.05	17.12	17.06	18.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	16.93	17.08	16.91	18.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.03	16.98	17.01	18.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.10	17.10	17.02	18.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.09	17.06	16.90	18.0	0.0



n26 Main PA Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	837		
20	PI/2 BPSK	1	1	23.07	23.08	22.97	24.0	0.0
20	PI/2 BPSK	1	53	22.98	23.07	22.91	24.0	0.0
20	PI/2 BPSK	1	104	22.93	22.94	22.89	24.0	0.0
20	PI/2 BPSK	50	0	23.02	23.11	23.09	24.0	0.0
20	PI/2 BPSK	50	28	23.07	23.06	22.97	24.0	0.0
20	PI/2 BPSK	50	56	22.76	22.98	22.91	24.0	0.0
20	PI/2 BPSK	100	0	23.08	23.08	23.06	24.0	0.0
20	QPSK	1	1	23.15	23.17	23.13	24.0	0.0
20	QPSK	1	53	22.96	23.07	22.99	24.0	0.0
20	QPSK	1	104	22.91	22.94	22.94	24.0	0.0
20	QPSK	50	0	22.93	23.11	22.86	24.0	0.0
20	QPSK	50	28	23.12	23.15	22.91	24.0	0.0
20	QPSK	50	56	22.84	22.98	22.77	24.0	0.0
20	QPSK	100	0	23.05	23.10	22.94	24.0	0.0
20	16QAM	1	1	22.72	22.76	22.62	24.0	0.0
20	64QAM	1	1	22.53	22.62	22.53	23.0	1.0
20	256QAM	1	1	19.66	19.72	19.52	21.0	3.0
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.99	23.05	23.14	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.12	23.16	23.05	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.02	23.05	22.93	24.0	0.0

n66 Main PA Ant0 DSI9								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1720	1745	1760		
40	PI/2 BPSK	1	1	16.95	17.00	16.97	18.4	0.0
40	PI/2 BPSK	1	108	17.14	17.06	16.92	18.4	0.0
40	PI/2 BPSK	1	214	17.17	17.04	17.03	18.4	0.0
40	PI/2 BPSK	108	0	16.95	17.07	17.06	18.4	0.0
40	PI/2 BPSK	108	54	17.02	17.08	16.90	18.4	0.0
40	PI/2 BPSK	108	108	17.05	17.12	16.94	18.4	0.0
40	PI/2 BPSK	216	0	17.11	17.15	17.02	18.4	0.0
40	QPSK	1	1	17.16	17.18	17.11	18.4	0.0
40	QPSK	1	108	17.17	17.14	16.95	18.4	0.0
40	QPSK	1	214	17.11	17.17	17.00	18.4	0.0
40	QPSK	108	0	17.10	17.09	17.05	18.4	0.0
40	QPSK	108	54	17.09	17.15	16.89	18.4	0.0
40	QPSK	108	108	17.10	17.13	17.02	18.4	0.0
40	QPSK	216	0	17.11	17.12	16.92	18.4	0.0
40	16QAM	1	1	16.99	17.06	17.00	18.4	0.0
40	64QAM	1	1	17.12	17.10	16.97	18.4	0.0
40	256QAM	1	1	17.14	17.16	17.02	18.4	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	17.07	17.03	16.90	18.4	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.14	17.13	17.11	18.4	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1725	1722.5		
15	QPSK	1	1	17.06	16.99	17.11	18.4	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.16	17.00	17.04	18.4	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.03	16.97	17.03	18.4	0.0



n38 Main PA Ant0 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	18.80	18.77	18.75	
40	PI/2 BPSK	1	53	18.81	18.67	18.82	19.5
40	PI/2 BPSK	1	104	18.82	18.73	18.82	
40	PI/2 BPSK	50	0	18.81	18.80	18.76	19.5
40	PI/2 BPSK	50	28	18.78	18.84	18.78	19.5
40	PI/2 BPSK	50	56	18.70	18.77	18.72	19.5
40	PI/2 BPSK	100	0	18.77	18.85	18.82	
40	QPSK	1	1	18.82	18.87	18.81	
40	QPSK	1	53	18.84	18.85	18.77	19.5
40	QPSK	1	104	18.88	18.80	18.81	
40	QPSK	50	0	18.71	18.77	18.79	19.5
40	QPSK	50	28	18.80	18.85	18.89	19.5
40	QPSK	80	56	18.82	18.75	18.80	19.5
40	QPSK	100	0	18.73	18.80	18.73	
40	16QAM	1	1	18.84	18.80	18.83	19.5
40	16QAM	1	1	18.73	18.67	18.71	19.5
40	256QAM	1	1	17.66	17.81	17.37	18.5
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	18.71	18.83	18.83	19.5
Channel				516000	519000	520000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	18.82	18.83	18.71	19.5
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.48	
15	QPSK	1	1	18.78	18.79	18.81	19.5
Channel				515004	519000	523998	
Frequency (MHz)				2678.02	2595	2614.98	
10	QPSK	1	1	18.77	18.88	18.89	19.5

n41 Main PA Ant0 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				509200	518998	529000	
100	PI/2 BPSK	1	1	18.77	18.95	18.80	
100	PI/2 BPSK	1	137	18.82	18.89	18.89	19.5
100	PI/2 BPSK	1	271	18.81	18.89	18.89	
100	PI/2 BPSK	135	0	18.80	18.95	18.85	19.5
100	PI/2 BPSK	135	69	18.71	18.90	18.89	19.5
100	PI/2 BPSK	135	138	18.64	18.77	18.84	19.5
100	PI/2 BPSK	270	0	18.83	18.92	18.73	
100	QPSK	1	1	18.82	18.97	18.82	
100	QPSK	1	137	18.70	18.88	18.82	19.5
100	QPSK	1	271	18.81	18.89	18.86	
100	QPSK	135	0	18.81	18.87	18.78	19.5
100	QPSK	135	69	18.83	18.95	18.84	19.5
100	QPSK	135	138	18.78	18.93	18.81	19.5
100	QPSK	270	0	18.78	18.89	18.75	
100	16QAM	1	1	18.71	18.82	18.84	19.5
100	16QAM	1	1	18.76	18.93	18.70	19.5
100	256QAM	1	1	18.79	18.80	18.83	19.5
Channel				508200	518998	528998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	18.77	18.77	18.75	19.5
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2648.98	
80	QPSK	1	1	18.74	18.85	18.82	19.5
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	18.83	18.81	18.85	19.5
Channel				505200	518998	531998	
Frequency (MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	18.73	18.80	18.81	19.5
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.98	
50	QPSK	1	1	18.82	18.81	18.83	19.5
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	18.73	18.88	18.83	19.5
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	18.71	18.83	18.79	19.5
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.98	
20	QPSK	1	1	18.83	18.95	18.77	19.5



n2 Main PA Ant1 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	9.00	9.11	9.18			
20	PI2 BPSK	1	53	9.07	9.14	9.11	10.4	0.0	
20	PI2 BPSK	1	104	8.87	9.18	9.07			
20	PI2 BPSK	50	0	8.92	9.20	9.09	10.4	0.0	
20	PI2 BPSK	50	28	9.00	9.07	9.11	10.4	0.0	
20	PI2 BPSK	50	56	8.99	9.02	9.01	10.4	0.0	
20	PI2 BPSK	100	0	8.89	9.11	9.21			
20	QPSK	1	1	9.07	9.22	9.20			
20	QPSK	1	53	8.99	9.18	9.00	10.4	0.0	
20	QPSK	1	104	8.88	9.08	9.06			
20	QPSK	50	0	8.88	9.05	9.12	10.4	0.0	
20	QPSK	50	28	9.01	9.20	9.16	10.4	0.0	
20	QPSK	50	56	9.01	9.06	9.10	10.4	0.0	
20	QPSK	100	0	8.87	9.19	9.18			
20	16QAM	1	1	8.93	9.01	9.00	10.4	0.0	
20	64QAM	1	1	8.90	9.11	9.01	10.4	0.0	
20	256QAM	1	1	8.95	9.07	9.07	10.4	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	9.07	9.10	9.06	10.4	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1902			
10	QPSK	1	1	9.09	9.00	9.09	10.4	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	8.92	9.11	9.16	10.4	0.0	

n5 Main PA Ant1 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167000	167500			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	19.24	19.39	19.37			
20	PI2 BPSK	1	53	19.20	19.44	19.31	20.8	0.0	
20	PI2 BPSK	1	104	19.24	19.33	19.31			
20	PI2 BPSK	50	0	19.33	19.44	19.27	20.8	0.0	
20	PI2 BPSK	50	28	19.28	19.36	19.18	20.8	0.0	
20	PI2 BPSK	50	56	19.21	19.45	19.23	20.8	0.0	
20	PI2 BPSK	100	0	19.28	19.27	19.24			
20	QPSK	1	1	19.41	19.46	19.37			
20	QPSK	1	53	19.35	19.24	19.32	20.8	0.0	
20	QPSK	1	104	19.24	19.27	19.28			
20	QPSK	50	0	19.39	19.42	19.19	20.8	0.0	
20	QPSK	50	28	19.38	19.45	19.18	20.8	0.0	
20	QPSK	50	56	19.32	19.29	19.29	20.8	0.0	
20	QPSK	100	0	19.38	19.40	19.34			
20	16QAM	1	1	19.41	19.36	19.36	20.8	0.0	
20	64QAM	1	1	19.29	19.45	19.32	20.8	0.0	
20	256QAM	1	1	19.24	19.45	19.38	20.8	0.0	
Channel				166000	167000	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	19.42	19.31	19.15	20.8	0.0	
Channel				165800	167000	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	19.39	19.41	19.31	20.8	0.0	
Channel				165300	167000	169000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	19.29	19.25	19.37	20.8	0.0	



### n7 Main PA Ant1 DSI9

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	15.03	14.98	15.10		
40	PI2 BPSK	1	108	14.97	15.15	14.95	16.2	0.0
40	PI2 BPSK	1	214	14.92	15.01	15.09		
40	PI2 BPSK	108	0	14.98	15.08	14.96	16.2	0.0
40	PI2 BPSK	108	54	15.09	15.00	15.02	16.2	0.0
40	PI2 BPSK	108	108	14.91	15.18	15.08	16.2	0.0
40	PI2 BPSK	216	0	14.94	15.03	15.05		
40	QPSK	1	1	14.91	15.19	15.03		
40	QPSK	1	108	15.00	15.05	15.04	16.2	0.0
40	QPSK	1	214	15.03	14.95	15.07		
40	QPSK	108	0	15.10	15.12	14.98	16.2	0.0
40	QPSK	108	54	14.90	15.17	14.95	16.2	0.0
40	QPSK	108	108	15.04	15.04	15.11	16.2	0.0
40	QPSK	216	0	15.07	15.15	15.07		
40	16QAM	1	1	15.11	15.18	14.96	16.2	0.0
40	64QAM	1	1	14.95	15.08	15.14	16.2	0.0
40	256QAM	1	1	14.98	15.17	14.97	16.2	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.95	15.03	15.03	16.2	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
29	QPSK	1	1	14.96	15.13	15.10	16.2	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	14.94	15.09	15.03	16.2	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.08	15.07	15.03	16.2	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.99	15.11	15.10	16.2	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.98	15.08	15.06	16.2	0.0

### n26 Main PA Ant1 DSI9

BW (MHz)	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)				164500	163300	167900		
20	PI2 BPSK	1	1	19.19	19.62	19.46		
20	PI2 BPSK	1	53	19.30	19.63	19.38	20.8	0.0
20	PI2 BPSK	1	104	19.24	19.52	19.29		
20	PI2 BPSK	50	0	19.35	19.54	19.40	20.8	0.0
20	PI2 BPSK	50	28	19.24	19.71	19.30	20.8	0.0
20	PI2 BPSK	50	56	19.20	19.61	19.48	20.8	0.0
20	PI2 BPSK	100	0	19.15	19.66	19.49		
20	QPSK	1	1	19.36	19.74	19.48		
20	QPSK	1	53	19.37	19.73	19.34	20.8	0.0
20	QPSK	1	104	19.27	19.64	19.42		
20	QPSK	50	0	19.15	19.56	19.35	20.8	0.0
20	QPSK	50	28	19.16	19.71	19.33	20.8	0.0
20	QPSK	50	56	19.35	19.69	19.46	20.8	0.0
20	QPSK	100	0	19.19	19.63	19.43		
20	16QAM	1	1	19.38	19.61	19.47	20.8	0.0
20	64QAM	1	1	19.37	19.56	19.39	20.8	0.0
20	256QAM	1	1	19.28	19.56	19.49	20.8	0.0
Channel								
Frequency (MHz)				164300	163300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.17	19.72	19.34	20.8	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.29	19.64	19.42	20.8	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.25	19.69	19.33	20.8	0.0

### n66 Main PA Ant1 DSI9

BW (MHz)	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)				346500	349000	353000		
40	PI2 BPSK	1	1	11.81	11.91	11.74		
40	PI2 BPSK	1	108	11.79	11.94	11.69	12.9	0.0
40	PI2 BPSK	1	214	11.92	11.90	11.74		
40	PI2 BPSK	108	0	11.77	11.81	11.66	12.9	0.0
40	PI2 BPSK	108	54	11.89	11.82	11.74	12.9	0.0
40	PI2 BPSK	108	108	11.89	11.86	11.82	12.9	0.0
40	PI2 BPSK	216	0	11.75	11.80	11.79		
40	QPSK	1	1	11.89	11.97	11.84		
40	QPSK	1	108	11.83	11.76	11.69	12.9	0.0
40	QPSK	1	214	11.90	11.94	11.84		
40	QPSK	108	0	11.80	11.78	11.69	12.9	0.0
40	QPSK	108	54	11.89	11.85	11.76	12.9	0.0
40	QPSK	108	108	11.89	11.94	11.73	12.9	0.0
40	QPSK	216	0	11.90	11.92	11.85		
40	16QAM	1	1	11.79	11.91	11.66	12.9	0.0
40	64QAM	1	1	11.93	11.90	11.64	12.9	0.0
40	256QAM	1	1	11.79	11.76	11.81	12.9	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	11.82	11.77	11.85	12.9	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	11.94	11.75	11.69	12.9	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	11.85	11.91	11.66	12.9	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	11.93	11.90	11.74	12.9	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	11.89	11.78	11.77	12.9	0.0



n38 Main PA Ant1 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	13.68	13.76	13.74			
40	PI2 BPSK	1	53	13.82	13.82	13.96	15.2	0.0	
40	PI2 BPSK	1	104	13.84	13.80	13.74			
40	PI2 BPSK	50	0	13.88	13.78	13.73	15.2	0.0	
40	PI2 BPSK	50	28	13.77	13.96	13.73	15.2	0.0	
40	PI2 BPSK	50	56	13.86	13.89	13.90	15.2	0.0	
40	PI2 BPSK	100	0	13.75	13.95	13.86			
40	QPSK	1	1	13.85	13.96	13.94			
40	QPSK	1	53	13.84	13.83	13.77	15.2	0.0	
40	QPSK	1	104	13.83	13.77	13.89			
40	QPSK	50	0	13.80	13.88	13.92	15.2	0.0	
40	QPSK	50	28	13.85	13.97	13.93	15.2	0.0	
40	QPSK	50	56	13.88	13.78	13.81	15.2	0.0	
40	QPSK	100	0	13.71	13.90	13.88			
40	16QAM	1	1	13.87	13.90	13.78	15.2	0.0	
40	16QAM	1	1	13.80	13.97	13.81	15.2	0.0	
40	256QAM	1	1	13.69	13.77	13.76	15.2	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	13.78	13.87	13.89	15.2	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	13.71	13.77	13.73	15.2	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	13.70	13.78	13.75	15.2	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	13.74	13.80	13.74	15.2	0.0	

n41 Main PA Ant1 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				529002	518598	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	13.78	13.93	13.93			
100	PI2 BPSK	1	137	13.90	14.05	13.94	15.2	0.0	
100	PI2 BPSK	1	274	13.89	14.06	13.96			
100	PI2 BPSK	135	0	13.75	14.00	13.92	15.2	0.0	
100	PI2 BPSK	135	69	13.95	13.96	13.97	15.2	0.0	
100	PI2 BPSK	135	138	13.92	14.04	13.81	15.2	0.0	
100	PI2 BPSK	270	0	13.88	14.06	13.79			
100	QPSK	1	1	13.85	14.10	13.98			
100	QPSK	1	137	13.73	13.92	13.83	15.2	0.0	
100	QPSK	1	274	13.83	13.95	13.93			
100	QPSK	135	0	13.77	14.00	14.00	15.2	0.0	
100	QPSK	135	69	13.75	14.08	13.93	15.2	0.0	
100	QPSK	135	138	13.80	13.95	13.99	15.2	0.0	
100	QPSK	270	0	13.83	13.92	13.82			
100	16QAM	1	1	13.87	14.08	13.91	15.2	0.0	
100	16QAM	1	1	13.87	14.06	13.94	15.2	0.0	
100	256QAM	1	1	13.74	14.00	13.88	15.2	0.0	
Channel				526000	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	13.76	14.06	13.78	15.2	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2342.02	2592.99	2649.99			
80	QPSK	1	1	13.79	14.09	13.94	15.2	0.0	
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	13.75	13.94	13.78	15.2	0.0	
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.99			
60	QPSK	1	1	13.94	14.06	13.78	15.2	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	13.85	13.90	13.79	15.2	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	13.86	14.00	13.80	15.2	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	13.74	13.93	13.86	15.2	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	13.80	14.07	13.82	15.2	0.0	





### n2 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.12	22.29	22.31		
20	PI2 BPSK	1	53	22.26	22.32	22.25	23.0	0.0
20	PI2 BPSK	1	104	22.19	22.21	22.01		
20	PI2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PI2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PI2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PI2 BPSK	100	0	22.29	22.32	22.21		
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32	23.0	0.0
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14		
20	QPSK	100	0	22.22	22.27	22.06		
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	16QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Channel				1905	1930	1905		
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dB)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

### n7 Main PA Ant2 DS19

BW (MHz)	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)				504000	507000	510000		
40	PI2 BPSK	1	1	20.16	20.29	20.31		
40	PI2 BPSK	1	108	20.21	20.45	20.15	21.5	0.0
40	PI2 BPSK	1	216	20.19	20.12	20.27		
40	PI2 BPSK	108	0	20.12	20.33	20.32	21.5	0.0
40	PI2 BPSK	108	54	20.28	20.44	20.12	21.5	0.0
40	PI2 BPSK	108	108	20.25	20.42	20.19	21.5	0.0
40	PI2 BPSK	216	0	20.21	20.39	20.14		
40	QPSK	1	1	20.33	20.50	20.31		
40	QPSK	1	108	20.15	20.41	20.25	21.5	0.0
40	QPSK	1	216	20.27	20.45	20.22		
40	QPSK	108	0	20.30	20.40	20.13	21.5	0.0
40	QPSK	108	54	20.21	20.48	20.13	21.5	0.0
40	QPSK	108	108	20.15	20.34	20.24		
40	QPSK	216	0	20.33	20.47	20.14	21.5	0.0
40	16QAM	1	1	20.21	20.42	20.27	21.5	0.0
40	16QAM	1	1	20.26	20.34	20.30	21.5	0.0
40	256QAM	1	1	18.80	18.64	18.83	20.0	1.5
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	20.14	20.36	20.32	21.5	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	20.14	20.26	20.25	21.5	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	20.16	20.37	20.16	21.5	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	20.33	20.42	20.33	21.5	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	20.35	20.49	20.39	21.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	20.28	20.49	20.28	21.5	0.0

### n66 Main PA Ant2 DS19

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				346000	349000	352000		
40	PI2 BPSK	1	1	21.04	21.22	20.88		
40	PI2 BPSK	1	108	21.05	21.28	20.89	22.4	0.0
40	PI2 BPSK	1	216	20.90	21.27	20.80		
40	PI2 BPSK	108	0	20.83	21.11	20.81	22.4	0.0
40	PI2 BPSK	108	54	20.97	21.22	20.83	22.4	0.0
40	PI2 BPSK	108	108	20.89	21.23	20.91	22.4	0.0
40	PI2 BPSK	216	0	20.85	21.28	20.90		
40	QPSK	1	1	21.05	21.30	20.92		
40	QPSK	1	108	20.92	21.22	20.71	22.4	0.0
40	QPSK	1	216	20.88	21.29	20.90		
40	QPSK	108	0	21.04	21.25	20.74	22.4	0.0
40	QPSK	108	54	20.85	21.28	20.81	22.4	0.0
40	QPSK	108	108	20.90	21.26	20.70		
40	QPSK	216	0	20.96	21.10	20.72		
40	16QAM	1	1	21.06	21.21	20.94	22.4	0.0
40	16QAM	1	1	21.03	21.22	20.85	22.4	0.0
40	256QAM	1	1	18.75	18.86	18.94	19.9	2.5
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dB)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	21.04	21.09	20.81	22.4	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	20.99	21.23	20.77	22.4	0.0
Channel								
Frequency (MHz)				343000	349000	354500	Tune-up limit (dB)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	20.90	21.20	20.88	22.4	0.0
Channel								
Frequency (MHz)				342000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	20.93	21.16	20.88	22.4	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	20.85	21.28	20.80	22.4	0.0



n38 Main PA Ant2 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				51904	51900	51996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	19.19	19.29	19.28			
40	PI2 BPSK	1	53	19.08	19.22	19.12	20.3	0.0	
40	PI2 BPSK	1	104	19.18	19.18	19.20	20.3	0.0	
40	PI2 BPSK	50	0	19.18	19.12	19.18	20.3	0.0	
40	PI2 BPSK	50	28	19.22	19.13	19.26	20.3	0.0	
40	PI2 BPSK	50	56	19.17	19.19	19.20	20.3	0.0	
40	PI2 BPSK	100	0	19.23	19.28	19.26			
40	QPSK	1	1	19.22	19.33	19.27			
40	QPSK	1	53	19.03	19.30	19.05	20.3	0.0	
40	QPSK	1	104	19.02	19.28	19.12			
40	QPSK	50	0	19.22	19.27	19.26	20.3	0.0	
40	QPSK	50	28	19.17	19.30	19.23	20.3	0.0	
40	QPSK	50	56	19.04	19.18	19.24	20.3	0.0	
40	QPSK	100	0	19.09	19.25	19.08			
40	16QAM	1	1	19.06	19.26	19.18	20.3	0.0	
40	16QAM	1	1	19.01	19.23	19.20	20.3	0.0	
40	256QAM	1	1	18.84	17.15	17.14	18.3	2.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.00	19.23	19.14	20.3	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2595	2610			
20	QPSK	1	1	19.23	19.25	19.25	20.3	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	19.11	19.16	19.10	20.3	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.02	2595	2614.98			
10	QPSK	1	1	19.06	19.28	19.28	20.3	0.0	

n41 Main PA Ant2 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50902	51698	52600			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.90	19.34	19.01			
100	PI2 BPSK	1	137	18.88	19.38	19.00	20.3	0.0	
100	PI2 BPSK	1	274	18.93	19.26	19.17			
100	PI2 BPSK	135	0	18.81	19.20	19.20	20.3	0.0	
100	PI2 BPSK	135	69	18.98	19.39	19.12	20.3	0.0	
100	PI2 BPSK	135	138	18.89	19.28	18.99	20.3	0.0	
100	PI2 BPSK	270	0	18.99	19.25	19.04			
100	QPSK	1	1	19.01	19.41	19.21			
100	QPSK	1	137	18.94	19.28	19.01	20.3	0.0	
100	QPSK	1	274	18.92	19.33	19.21			
100	QPSK	135	0	19.03	19.39	19.20	20.3	0.0	
100	QPSK	135	69	18.90	19.40	19.18	20.3	0.0	
100	QPSK	135	138	18.83	19.26	19.19	20.3	0.0	
100	QPSK	270	0	18.95	19.38	19.05			
100	16QAM	1	1	18.90	19.34	19.10	20.3	0.0	
100	16QAM	1	1	18.80	19.24	18.99	20.3	0.0	
100	256QAM	1	1	18.78	18.58	18.54	19.6	0.5	
Channel				508200	516980	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.82	19.31	19.11	20.3	0.0	
Channel				507204	516998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.02	2592.99	2643.99			
80	QPSK	1	1	18.82	19.22	19.18	20.3	0.0	
Channel				506202	516998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	18.80	19.38	19.04	20.3	0.0	
Channel				505200	516998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	18.91	19.20	19.17	20.3	0.0	
Channel				504204	516998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.67	19.35	19.01	20.3	0.0	
Channel				503202	516998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.81	19.38	19.07	20.3	0.0	
Channel				502200	516998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	18.89	19.35	19.16	20.3	0.0	
Channel				501204	516998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.90	19.39	19.20	20.3	0.0	



### n2 Main PA Ant3 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.05	15.76	15.73		
20	PI2 BPSK	1	53	15.53	15.83	15.66	17.1	0.0
20	PI2 BPSK	1	104	15.59	15.76	15.89		
20	PI2 BPSK	50	0	15.80	15.76	15.73	17.1	0.0
20	PI2 BPSK	50	28	15.52	15.77	15.87	17.1	0.0
20	PI2 BPSK	50	58	15.58	15.72	15.63		
20	PI2 BPSK	100	0	15.81	15.80	15.88		
20	QPSK	1	1	15.63	15.84	15.72		
20	QPSK	1	53	15.48	15.76	15.72	17.1	0.0
20	QPSK	1	104	15.62	15.72	15.52		
20	QPSK	50	0	15.84	15.69	15.53	17.1	0.0
20	QPSK	50	28	15.53	15.83	15.71	17.1	0.0
20	QPSK	50	58	15.42	15.66	15.70		
20	QPSK	100	0	15.51	15.75	15.55	17.1	0.0
20	16QAM	1	1	15.60	15.88	15.56	17.1	0.0
20	16QAM	1	1	15.46	15.66	15.69	17.1	0.0
20	256QAM	1	1	15.60	15.83	15.52	17.1	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.52	15.78	15.55	17.1	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.55	15.80	15.65	17.1	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.47	15.72	15.65	17.1	0.0

### n7 Main PA Ant3 DSI9

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	18.64	18.71	18.61		
40	PI2 BPSK	1	108	18.67	18.74	18.79	19.7	0.0
40	PI2 BPSK	1	214	18.56	18.80	18.78		
40	PI2 BPSK	108	0	18.56	18.69	18.78	19.7	0.0
40	PI2 BPSK	108	54	18.72	18.67	18.77	19.7	0.0
40	PI2 BPSK	108	108	18.70	18.79	18.80		
40	PI2 BPSK	216	0	18.68	18.68	18.68		
40	QPSK	1	1	18.70	18.81	18.78		
40	QPSK	1	108	18.64	18.67	18.78	19.7	0.0
40	QPSK	1	214	18.64	18.75	18.60		
40	QPSK	108	0	18.50	18.73	18.65	19.7	0.0
40	QPSK	108	54	18.61	18.78	18.64	19.7	0.0
40	QPSK	108	108	18.54	18.72	18.60		
40	QPSK	216	0	18.50	18.75	18.62	19.7	0.0
40	16QAM	1	1	18.69	18.66	18.62	19.7	0.0
40	16QAM	1	1	18.52	18.75	18.64	19.7	0.0
40	256QAM	1	1	18.70	18.80	18.73	19.7	0.0
Channel								
Frequency (MHz)				50200	50700	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.55	18.66	18.59	19.7	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	257.2	2535	257.5	19.7	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	18.65	18.72	18.87	19.7	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.69	18.75	18.80	19.7	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	2505	2535	2565	19.7	0.0
Channel								
Frequency (MHz)				502500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.63	18.74	18.78	19.7	0.0

### n66 Main PA Ant3 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	15.98	16.02	15.69		
40	PI2 BPSK	1	108	15.89	15.98	15.86	17.2	0.0
40	PI2 BPSK	1	214	15.90	16.12	15.78		
40	PI2 BPSK	108	0	16.09	16.09	15.90	17.2	0.0
40	PI2 BPSK	108	54	15.97	16.03	15.89	17.2	0.0
40	PI2 BPSK	108	108	15.98	16.10	15.93		
40	PI2 BPSK	216	0	16.10	15.99	15.87		
40	QPSK	1	1	16.10	16.13	15.91		
40	QPSK	1	108	16.05	16.05	15.83	17.2	0.0
40	QPSK	1	214	16.07	15.96	15.88		
40	QPSK	108	0	15.95	15.99	15.84	17.2	0.0
40	QPSK	108	54	15.89	16.12	15.83	17.2	0.0
40	QPSK	108	108	16.03	16.10	15.75		
40	QPSK	216	0	15.90	16.11	15.82	17.2	0.0
40	16QAM	1	1	16.10	16.03	15.82	17.2	0.0
40	16QAM	1	1	15.91	15.94	15.70	17.2	0.0
40	256QAM	1	1	16.08	16.04	15.81	17.2	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.25	17.45	17.65		
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.20	17.45	17.70	17.2	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.17.5	17.45	17.72.5	17.2	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.99	16.12	15.74	17.2	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.02	16.04	15.82	17.2	0.0



n38 Main PA An3 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				51904	51900	51996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	17.84	18.15	17.85			
40	PI2 BPSK	1	53	17.84	18.01	17.95	19.0	0.0	
40	PI2 BPSK	1	104	18.06	18.06	17.89			
40	PI2 BPSK	50	0	18.09	17.97	17.84	19.0	0.0	
40	PI2 BPSK	50	28	17.91	18.12	17.90	19.0	0.0	
40	PI2 BPSK	50	56	17.93	18.15	17.89	19.0	0.0	
40	PI2 BPSK	100	0	17.85	18.12	17.89			
40	QPSK	1	1	18.09	18.16	18.00			
40	QPSK	1	53	18.00	18.01	17.93	19.0	0.0	
40	QPSK	1	104	18.06	18.08	17.83			
40	QPSK	50	0	17.84	17.95	17.98	19.0	0.0	
40	QPSK	50	28	18.03	18.14	17.83	19.0	0.0	
40	QPSK	50	56	18.11	18.02	17.86			
40	QPSK	100	0	18.08	18.10	17.92	19.0	0.0	
40	16QAM	1	1	17.87	17.95	17.98	19.0	0.0	
40	16QAM	1	1	17.87	18.01	17.99	19.0	0.0	
40	256QAM	1	1	17.91	18.13	17.88	19.0	0.0	
Channel				517002	51900	52098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.06	18.15	17.80	19.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.02	18.07	17.91	19.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.99	17.95	17.90	19.0	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2573.02	2595	2614.98			
10	QPSK	1	1	18.10	18.09	17.95	19.0	0.0	

n41 Main PA Ant3 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				52902	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.77	18.11	18.00			
100	PI2 BPSK	1	137	17.88	17.95	17.99	19.0	0.0	
100	PI2 BPSK	1	274	17.75	18.11	17.89			
100	PI2 BPSK	135	0	17.87	18.03	17.82	19.0	0.0	
100	PI2 BPSK	135	69	17.68	18.11	17.93	19.0	0.0	
100	PI2 BPSK	135	138	17.78	18.07	17.82	19.0	0.0	
100	PI2 BPSK	270	0	17.88	18.07	17.85			
100	QPSK	1	1	17.87	18.15	18.02			
100	QPSK	1	137	17.81	17.97	17.92	19.0	0.0	
100	QPSK	1	274	17.70	18.02	17.98			
100	QPSK	135	0	17.71	18.03	17.93	19.0	0.0	
100	QPSK	135	69	17.88	18.13	18.02	19.0	0.0	
100	QPSK	135	138	17.69	17.97	17.84			
100	QPSK	270	0	17.87	18.10	17.82	19.0	0.0	
100	16QAM	1	1	17.79	18.05	17.87	19.0	0.0	
100	16QAM	1	1	17.82	18.10	17.94	19.0	0.0	
100	256QAM	1	1	17.85	18.01	17.93	19.0	0.0	
Channel				530200	51898	53098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.86	18.08	17.83	19.0	0.0	
Channel				507204	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	17.73	17.94	17.89	19.0	0.0	
Channel				506202	51898	53100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	17.87	17.99	17.82	19.0	0.0	
Channel				505200	51898	53198	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.99			
60	QPSK	1	1	17.88	17.97	17.91	19.0	0.0	
Channel				504204	51898	53298	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	17.87	17.96	17.85	19.0	0.0	
Channel				503202	51898	53400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.84	17.95	18.04	19.0	0.0	
Channel				502200	51898	53498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.74	18.14	18.02	19.0	0.0	
Channel				501204	51898	53598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.77	17.87	17.81	19.0	0.0	



Reduced Power Mode for Main PA DSI10

n2 Main PA Ant0 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				375000	376000	380000			
Frequency (MHz)				1862	1868	1900			
20	PI/2 BPSK	1	1	17.47	17.58	17.19			
20	PI/2 BPSK	1	53	17.24	17.48	17.08	19.0	0.0	
20	PI/2 BPSK	1	104	17.37	17.42	17.04			
20	PI/2 BPSK	50	0	17.25	17.56	17.27	19.0	0.0	
20	PI/2 BPSK	50	28	17.47	17.51	17.05	19.0	0.0	
20	PI/2 BPSK	50	56	17.45	17.56	17.27	19.0	0.0	
20	PI/2 BPSK	100	0	17.34	17.53	17.21			
20	QPSK	1	1	17.46	17.61	17.26			
20	QPSK	1	53	17.48	17.43	17.14	19.0	0.0	
20	QPSK	1	104	17.28	17.52	17.25			
20	QPSK	50	0	17.26	17.46	17.22	19.0	0.0	
20	QPSK	50	28	17.48	17.58	17.24	19.0	0.0	
20	QPSK	50	56	17.42	17.55	17.11	19.0	0.0	
20	QPSK	100	0	17.27	17.56	17.22			
20	16QAM	1	1	17.40	17.58	17.24	19.0	0.0	
20	64QAM	1	1	17.38	17.40	17.16	19.0	0.0	
20	256QAM	1	1	17.41	17.59	17.05	19.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1827.5	1860	1922.5	19.0	0.0	
15	QPSK	1	1	17.42	17.60	17.10	19.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	19.0	0.0	
10	QPSK	1	1	17.25	17.59	17.07	19.0	0.0	
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1907.5	19.0	0.0	
5	QPSK	1	1	17.25	17.56	17.17	19.0	0.0	

n5 Main PA Ant0 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	22.13	22.34	22.10			
20	PI/2 BPSK	1	53	22.11	22.29	21.93	23.2	0.0	
20	PI/2 BPSK	1	104	22.12	22.15	22.00			
20	PI/2 BPSK	50	0	22.30	22.30	22.00	23.2	0.0	
20	PI/2 BPSK	50	28	22.17	22.15	22.10	23.2	0.0	
20	PI/2 BPSK	50	56	22.27	22.30	22.00	23.2	0.0	
20	PI/2 BPSK	100	0	22.26	22.25	22.00			
20	QPSK	1	1	22.32	22.38	22.15			
20	QPSK	1	53	22.30	22.25	22.05	23.2	0.0	
20	QPSK	1	104	22.11	22.31	22.08			
20	QPSK	50	0	22.26	22.20	21.94	23.2	0.0	
20	QPSK	50	28	22.24	22.32	22.13	23.2	0.0	
20	QPSK	50	56	22.29	22.28	21.99	23.2	0.0	
20	QPSK	100	0	22.17	22.25	21.97			
20	16QAM	1	1	22.11	22.23	22.00	23.2	0.0	
20	64QAM	1	1	22.11	22.23	22.00	23.2	0.0	
20	256QAM	1	1	19.31	19.43	19.28	20.2	3.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.2	0.0	
15	QPSK	1	1	22.29	22.34	22.11	23.2	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	23.2	0.0	
10	QPSK	1	1	22.16	22.16	22.07	23.2	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.5	836.5	846.5	23.2	0.0	
5	QPSK	1	1	22.28	22.27	22.04	23.2	0.0	

n7 Main PA Ant0 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506000	507000	510000			
Frequency (MHz)				2530	2535	2550			
40	PI/2 BPSK	1	1	14.41	14.50	14.43			
40	PI/2 BPSK	1	108	14.50	14.38	14.44	15.8	0.0	
40	PI/2 BPSK	1	214	14.44	14.44	14.40			
40	PI/2 BPSK	108	0	14.34	14.55	14.51	15.8	0.0	
40	PI/2 BPSK	108	54	14.40	14.46	14.41	15.8	0.0	
40	PI/2 BPSK	108	108	14.48	14.39	14.57	15.8	0.0	
40	PI/2 BPSK	216	0	14.51	14.53	14.41			
40	QPSK	1	1	14.35	14.62	14.56			
40	QPSK	1	108	14.31	14.46	14.43	15.8	0.0	
40	QPSK	1	214	14.41	14.52	14.44			
40	QPSK	108	0	14.48	14.38	14.37	15.8	0.0	
40	QPSK	108	54	14.52	14.53	14.38	15.8	0.0	
40	QPSK	108	108	14.39	14.51	14.45	15.8	0.0	
40	QPSK	216	0	14.35	14.51	14.40			
40	16QAM	1	1	14.40	14.43	14.46	15.8	0.0	
40	64QAM	1	1	14.38	14.56	14.54	15.8	0.0	
40	256QAM	1	1	14.37	14.58	14.39	15.8	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	15.8	0.0	
30	QPSK	1	1	14.49	14.37	14.43	15.8	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	15.8	0.0	
25	QPSK	1	1	14.30	14.48	14.52	15.8	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	15.8	0.0	
20	PI/2 BPSK	1	1	14.47	14.39	14.44	15.8	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	15.8	0.0	
15	QPSK	1	1	14.50	14.46	14.41	15.8	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	15.8	0.0	
10	QPSK	1	1	14.31	14.58	14.46	15.8	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	15.8	0.0	
5	QPSK	1	1	14.45	14.57	14.49	15.8	0.0	



n26 Main PA Ant0 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				22.4	22.15	22.0			
20	PI/2 BPSK	1	1	22.02	22.02	22.05			
20	PI/2 BPSK	1	53	22.16	22.10	22.04	23.2	0.0	
20	PI/2 BPSK	1	104	21.96	22.14	21.98			
20	PI/2 BPSK	50	0	21.96	22.16	22.06	23.2	0.0	
20	PI/2 BPSK	50	28	21.94	22.11	21.95	23.2	0.0	
20	PI/2 BPSK	50	56	22.01	22.11	21.95			
20	PI/2 BPSK	100	0	22.16	22.12	22.06	23.2	0.0	
20	QPSK	1	1	22.09	22.19	22.05			
20	QPSK	1	53	21.95	21.96	22.06	23.2	0.0	
20	QPSK	1	104	21.95	21.96	21.95			
20	QPSK	50	0	21.97	22.07	21.93	23.2	0.0	
20	QPSK	50	28	22.06	22.16	22.15	23.2	0.0	
20	QPSK	50	56	22.00	22.12	22.05			
20	QPSK	100	0	22.05	22.09	22.06	23.2	0.0	
20	16QAM	1	1	21.99	22.11	22.06	23.2	0.0	
20	64QAM	1	1	22.10	22.11	21.95	23.2	0.0	
20	256QAM	1	1	19.66	19.72	19.62	20.7	2.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.15	22.03	21.91	23.2	0.0	
15	QPSK	1	1	22.11	22.03	21.91	23.2	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.14	21.98	21.97	23.2	0.0	
10	QPSK	1	1	22.14	21.98	21.97	23.2	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.13	22.17	22.09	23.2	0.0	
5	QPSK	1	1	22.13	22.17	22.09	23.2	0.0	

n66 Main PA Ant0 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1720	1745	1765			
40	PI/2 BPSK	1	1	15.71	15.62	15.47			
40	PI/2 BPSK	1	108	15.67	15.74	15.60	16.5	0.0	
40	PI/2 BPSK	1	214	15.53	15.72	15.51			
40	PI/2 BPSK	108	0	15.59	15.67	15.57	16.5	0.0	
40	PI/2 BPSK	108	54	15.62	15.59	15.59	16.5	0.0	
40	PI/2 BPSK	108	108	15.65	15.67	15.53			
40	PI/2 BPSK	216	0	15.50	15.66	15.62	16.5	0.0	
40	QPSK	1	1	15.60	15.75	15.56			
40	QPSK	1	108	15.58	15.52	15.48	16.5	0.0	
40	QPSK	1	214	15.66	15.57	15.66			
40	QPSK	108	0	15.55	15.67	15.64	16.5	0.0	
40	QPSK	108	54	15.54	15.69	15.51	16.5	0.0	
40	QPSK	108	108	15.66	15.59	15.55			
40	QPSK	216	0	15.54	15.72	15.66	16.5	0.0	
40	16QAM	1	1	15.51	15.56	15.53	16.5	0.0	
40	64QAM	1	1	15.47	15.66	15.65	16.5	0.0	
40	256QAM	1	1	15.67	15.69	15.65	16.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	16.5	0.0	
30	QPSK	1	1	15.58	15.60	15.59	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	16.5	0.0	
20	QPSK	1	1	15.58	15.66	15.58	16.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	16.5	0.0	
15	QPSK	1	1	15.69	15.57	15.62	16.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	16.5	0.0	
10	QPSK	1	1	15.70	15.63	15.60	16.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	16.5	0.0	
5	QPSK	1	1	15.48	15.68	15.66	16.5	0.0	



n38 Main PA Ant0 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5189.96	
40	PI2 BPSK	1	1	14.68	14.79	14.69	
40	PI2 BPSK	1	53	14.81	14.81	14.85	15.8
40	PI2 BPSK	1	104	14.73	14.79	14.75	
40	PI2 BPSK	50	0	14.72	14.70	14.68	15.8
40	PI2 BPSK	50	28	14.83	14.77	14.71	15.8
40	PI2 BPSK	50	56	14.73	14.68	14.71	15.8
40	PI2 BPSK	100	0	14.70	14.81	14.87	
40	QPSK	1	1	14.80	14.84	14.83	
40	QPSK	1	53	14.71	14.81	14.73	15.8
40	QPSK	1	104	14.59	14.80	14.66	
40	QPSK	50	0	14.69	14.73	14.84	15.8
40	QPSK	50	28	14.72	14.78	14.84	15.8
40	QPSK	80	56	14.73	14.68	14.65	15.8
40	QPSK	100	0	14.63	14.78	14.74	
40	16QAM	1	1	14.72	14.65	14.59	15.8
40	16QAM	1	1	14.78	14.82	14.77	15.8
40	256QAM	1	1	14.69	14.73	14.69	15.8
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	14.64	14.75	14.64	15.8
Channel				516000	519000	522000	
Frequency (MHz)				2550	2595	2610	
20	QPSK	1	1	14.80	14.84	14.79	15.8
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	14.77	14.68	14.76	15.8
Channel				515004	519000	522998	
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	14.69	14.79	14.64	15.8

n41 Main PA Ant0 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.00	5185.98	5280.00	
100	PI2 BPSK	1	1	14.78	14.79	14.59	
100	PI2 BPSK	1	137	14.71	14.69	14.52	15.8
100	PI2 BPSK	1	271	14.68	14.87	14.54	
100	PI2 BPSK	135	0	14.86	14.86	14.82	15.8
100	PI2 BPSK	135	69	14.87	14.72	14.59	15.8
100	PI2 BPSK	135	138	14.68	14.78	14.49	15.8
100	PI2 BPSK	270	0	14.86	14.68	14.81	
100	QPSK	1	1	14.78	14.88	14.55	
100	QPSK	1	137	14.78	14.84	14.58	15.8
100	QPSK	1	271	14.78	14.82	14.51	
100	QPSK	135	0	14.58	14.64	14.68	15.8
100	QPSK	135	69	14.63	14.85	14.84	15.8
100	QPSK	135	138	14.74	14.68	14.88	
100	QPSK	270	0	14.74	14.84	14.84	15.8
100	16QAM	1	1	14.78	14.84	14.66	15.8
100	16QAM	1	1	14.70	14.68	14.66	15.8
100	256QAM	1	1	14.79	14.79	14.52	15.8
Channel				5060.00	5185.98	5289.98	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	14.72	14.79	14.57	15.8
Channel				507204	518598	529988	
Frequency (MHz)				2538.02	2592.99	2649.99	
80	QPSK	1	1	14.67	14.69	14.50	15.8
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	14.78	14.83	14.84	15.8
Channel				505200	518598	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	14.77	14.69	14.52	15.8
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	14.88	14.87	14.71	15.8
Channel				503202	518598	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	14.73	14.82	14.59	15.8
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	14.57	14.87	14.55	15.8
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	14.63	14.86	14.82	15.8



n2 Main PA Ant1 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	9.61	9.68	9.56			
20	PI2 BPSK	1	53	9.47	9.72	9.61	10.7	0.0	
20	PI2 BPSK	1	104	9.00	9.55	9.62	10.7	0.0	
20	PI2 BPSK	50	0	9.58	9.49	9.43	10.7	0.0	
20	PI2 BPSK	50	28	9.48	9.63	9.55	10.7	0.0	
20	PI2 BPSK	50	56	9.66	9.55	9.63	10.7	0.0	
20	PI2 BPSK	100	0	9.53	9.66	9.46	10.7	0.0	
20	QPSK	1	1	9.62	9.73	9.54			
20	QPSK	1	53	9.49	9.54	9.61	10.7	0.0	
20	QPSK	1	104	9.66	9.57	9.47			
20	QPSK	50	0	9.49	9.57	9.49	10.7	0.0	
20	QPSK	50	28	9.57	9.63	9.39	10.7	0.0	
20	QPSK	50	56	9.45	9.60	9.61	10.7	0.0	
20	QPSK	100	0	9.54	9.63	9.43			
20	16QAM	1	1	9.47	9.52	9.55	10.7	0.0	
20	64QAM	1	1	9.61	9.55	9.54	10.7	0.0	
20	256QAM	1	1	9.49	9.65	9.46	10.7	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	9.66	9.67	9.52	10.7	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1902			
10	QPSK	1	1	9.50	9.59	9.61	10.7	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	9.57	9.65	9.52	10.7	0.0	

n5 Main PA Ant1 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167000	167500			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	19.24	19.39	19.37			
20	PI2 BPSK	1	53	19.20	19.44	19.31	21.1	0.0	
20	PI2 BPSK	1	104	19.24	19.33	19.31			
20	PI2 BPSK	50	0	19.33	19.44	19.27	21.1	0.0	
20	PI2 BPSK	50	28	19.28	19.36	19.18	21.1	0.0	
20	PI2 BPSK	50	56	19.21	19.45	19.23	21.1	0.0	
20	PI2 BPSK	100	0	19.28	19.27	19.24			
20	QPSK	1	1	19.41	19.46	19.37			
20	QPSK	1	53	19.35	19.24	19.32	21.1	0.0	
20	QPSK	1	104	19.24	19.27	19.28			
20	QPSK	50	0	19.39	19.42	19.19	21.1	0.0	
20	QPSK	50	28	19.38	19.45	19.18	21.1	0.0	
20	QPSK	50	56	19.32	19.29	19.29	21.1	0.0	
20	QPSK	100	0	19.38	19.40	19.34			
20	16QAM	1	1	19.41	19.36	19.36	21.1	0.0	
20	64QAM	1	1	19.29	19.45	19.32	21.1	0.0	
20	256QAM	1	1	19.24	19.45	19.38	21.1	0.0	
Channel				166000	167000	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	19.42	19.31	19.15	21.1	0.0	
Channel				165800	167000	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	19.39	19.41	19.31	21.1	0.0	
Channel				165300	167000	169000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	19.29	19.25	19.37	21.1	0.0	





### n7 Main PA Ant1 DS10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	15.03	14.98	15.10		
40	PI2 BPSK	1	108	14.97	15.15	14.95		
40	PI2 BPSK	1	214	14.92	15.01	15.09	16.0	0.0
40	PI2 BPSK	108	0	14.98	15.08	14.96	16.0	0.0
40	PI2 BPSK	108	54	15.09	15.00	15.02	16.0	0.0
40	PI2 BPSK	108	108	14.91	15.18	15.08	16.0	0.0
40	PI2 BPSK	216	0	14.94	15.03	15.05		
40	QPSK	1	1	14.91	15.19	15.03		
40	QPSK	1	108	15.00	15.05	15.04	16.0	0.0
40	QPSK	1	214	15.03	14.95	15.07		
40	QPSK	108	0	15.10	15.12	14.98	16.0	0.0
40	QPSK	108	54	14.90	15.17	14.95	16.0	0.0
40	QPSK	108	108	15.04	15.04	15.11	16.0	0.0
40	QPSK	216	0	15.07	15.15	15.07		
40	16QAM	1	1	15.11	15.18	14.96	16.0	0.0
40	64QAM	1	1	14.95	15.08	15.14	16.0	0.0
40	256QAM	1	1	14.98	15.17	14.97	16.0	0.0
Channel								
Frequency (MHz)				50200	50700	51300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.95	15.03	15.03	16.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	14.96	15.13	15.10	16.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	14.94	15.09	15.03	16.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.94	15.09	15.03	16.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.89	15.11	15.10	16.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.98	15.08	15.06	16.0	0.0

### n26 Main PA Ant1 DS10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				164500	163300	167900		
20	PI2 BPSK	1	1	19.19	19.62	19.46		
20	PI2 BPSK	1	53	19.30	19.63	19.38	21.1	0.0
20	PI2 BPSK	1	104	19.24	19.52	19.29		
20	PI2 BPSK	50	0	19.35	19.54	19.40	21.1	0.0
20	PI2 BPSK	50	28	19.24	19.71	19.30	21.1	0.0
20	PI2 BPSK	50	56	19.20	19.61	19.48	21.1	0.0
20	PI2 BPSK	100	0	19.15	19.66	19.49		
20	QPSK	1	1	19.36	19.74	19.48		
20	QPSK	1	53	19.37	19.73	19.34	21.1	0.0
20	QPSK	1	104	19.27	19.64	19.42		
20	QPSK	50	0	19.15	19.56	19.35	21.1	0.0
20	QPSK	50	28	19.16	19.71	19.33	21.1	0.0
20	QPSK	50	56	19.35	19.69	19.46	21.1	0.0
20	QPSK	100	0	19.19	19.63	19.43		
20	16QAM	1	1	19.38	19.61	19.47	21.1	0.0
20	64QAM	1	1	19.37	19.56	19.39	21.1	0.0
20	256QAM	1	1	19.28	19.56	19.49	21.1	0.0
Channel								
Frequency (MHz)				164300	163300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.17	19.72	19.34	21.1	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.29	19.64	19.42	21.1	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.25	19.69	19.33	21.1	0.0

### n66 Main PA Ant1 DS10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				346500	349000	353900		
40	PI2 BPSK	1	1	11.81	11.91	11.74		
40	PI2 BPSK	1	108	11.79	11.94	11.69	12.7	0.0
40	PI2 BPSK	1	214	11.92	11.90	11.74		
40	PI2 BPSK	108	0	11.77	11.81	11.66	12.7	0.0
40	PI2 BPSK	108	54	11.89	11.82	11.74	12.7	0.0
40	PI2 BPSK	108	108	11.89	11.86	11.82	12.7	0.0
40	PI2 BPSK	216	0	11.75	11.80	11.79		
40	QPSK	1	1	11.89	11.97	11.84		
40	QPSK	1	108	11.83	11.76	11.69	12.7	0.0
40	QPSK	1	214	11.90	11.94	11.84		
40	QPSK	108	0	11.80	11.78	11.69	12.7	0.0
40	QPSK	108	54	11.89	11.85	11.76	12.7	0.0
40	QPSK	108	108	11.89	11.94	11.73	12.7	0.0
40	QPSK	216	0	11.90	11.92	11.85		
40	16QAM	1	1	11.79	11.91	11.66	12.7	0.0
40	64QAM	1	1	11.93	11.90	11.64	12.7	0.0
40	256QAM	1	1	11.79	11.76	11.81	12.7	0.0
Channel								
Frequency (MHz)				345900	349000	353900	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	11.82	11.77	11.85	12.7	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	11.94	11.75	11.69	12.7	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	11.75	11.95	11.66	12.7	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	11.93	11.90	11.74	12.7	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	11.89	11.78	11.77	12.7	0.0



n38 Main PA Ant1 DS110								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				51904	51900	51996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	14.40	14.51	14.30		
40	PI2 BPSK	1	53	14.27	14.48	14.23	15.6	0.0
40	PI2 BPSK	1	104	14.22	14.48	14.37	15.6	0.0
40	PI2 BPSK	50	0	14.43	14.40	14.27	15.6	0.0
40	PI2 BPSK	50	28	14.40	14.52	14.25	15.6	0.0
40	PI2 BPSK	50	56	14.36	14.51	14.31	15.6	0.0
40	PI2 BPSK	100	0	14.27	14.52	14.35	15.6	0.0
40	QPSK	1	1	14.32	14.55	14.36		
40	QPSK	1	53	14.37	14.50	14.31	15.6	0.0
40	QPSK	1	104	14.32	14.52	14.36		
40	QPSK	50	0	14.23	14.40	14.30	15.6	0.0
40	QPSK	50	28	14.27	14.52	14.45	15.6	0.0
40	QPSK	50	56	14.33	14.43	14.34	15.6	0.0
40	QPSK	100	0	14.21	14.46	14.38	15.6	0.0
40	16QAM	1	1	14.43	14.49	14.42	15.6	0.0
40	16QAM	1	1	14.33	14.44	14.31	15.6	0.0
40	256QAM	1	1	14.28	14.40	14.43	15.6	0.0
Channel				517002	519000	520598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.22	14.43	14.42	15.6	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2530	2595	2610		
20	QPSK	1	1	14.21	14.37	14.22	15.6	0.0
Channel				515502	519000	524598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	14.42	14.36	14.23	15.6	0.0
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.02	2595	2614.98		
10	QPSK	1	1	14.42	14.42	14.27	15.6	0.0

n41 Main PA Ant1 DS110								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				52902	51898	52900		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	14.35	14.50	14.40		
100	PI2 BPSK	1	137	14.45	14.47	14.29	15.6	0.0
100	PI2 BPSK	1	274	14.42	14.55	14.32	15.6	0.0
100	PI2 BPSK	135	0	14.33	14.46	14.38	15.6	0.0
100	PI2 BPSK	135	69	14.46	14.60	14.38	15.6	0.0
100	PI2 BPSK	135	138	14.42	14.54	14.33	15.6	0.0
100	PI2 BPSK	270	0	14.25	14.54	14.26	15.6	0.0
100	QPSK	1	1	14.44	14.61	14.45		
100	QPSK	1	137	14.41	14.43	14.44	15.6	0.0
100	QPSK	1	274	14.27	14.47	14.47		
100	QPSK	135	0	14.47	14.55	14.47	15.6	0.0
100	QPSK	135	69	14.33	14.56	14.41	15.6	0.0
100	QPSK	135	138	14.45	14.53	14.40	15.6	0.0
100	QPSK	270	0	14.28	14.58	14.44	15.6	0.0
100	16QAM	1	1	14.34	14.44	14.47	15.6	0.0
100	16QAM	1	1	14.31	14.46	14.36	15.6	0.0
100	256QAM	1	1	14.34	14.44	14.34	15.6	0.0
Channel				530300	518998	530998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.32	14.46	14.45	15.6	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2534.02	2592.99	2643.99		
80	QPSK	1	1	14.40	14.52	14.29	15.6	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	14.42	14.43	14.30	15.6	0.0
Channel				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	14.45	14.48	14.44	15.6	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.24	14.44	14.44	15.6	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.25	14.60	14.47	15.6	0.0
Channel				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	14.38	14.60	14.33	15.6	0.0
Channel				501204	518998	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.28	14.45	14.44	15.6	0.0



### n2 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.12	22.29	22.31		
20	PI2 BPSK	1	53	22.26	22.32	22.25	23.0	0.0
20	PI2 BPSK	1	104	22.19	22.21	22.01		
20	PI2 BPSK	50	0	22.31	22.32	22.30	23.0	0.0
20	PI2 BPSK	50	28	22.16	22.29	22.14	23.0	0.0
20	PI2 BPSK	50	56	22.12	22.20	22.11	23.0	0.0
20	PI2 BPSK	100	0	22.29	22.32	22.21		
20	QPSK	1	1	22.32	22.34	22.19		
20	QPSK	1	53	22.33	22.32	22.32	23.0	0.0
20	QPSK	1	104	22.16	22.26	22.16		
20	QPSK	50	0	22.01	22.22	22.04	23.0	0.0
20	QPSK	50	28	22.23	22.29	22.12	23.0	0.0
20	QPSK	50	56	22.14	22.21	22.14	23.0	0.0
20	QPSK	100	0	22.22	22.27	22.06		
20	16QAM	1	1	22.28	22.33	22.20	23.0	0.0
20	16QAM	1	1	21.74	21.73	21.71	22.0	1.0
20	256QAM	1	1	19.00	19.09	18.90	20.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	22.20	22.28	22.09	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				1905	1930	1905		
10	QPSK	1	1	22.13	22.25	22.06	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	22.32	22.14	22.14	23.0	0.0

### n7 Main PA Ant2 DSI10

BW (MHz)	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)				504000	507000	510000		
40	PI2 BPSK	1	1	18.72	18.80	18.62		
40	PI2 BPSK	1	108	18.56	18.72	18.78	19.9	0.0
40	PI2 BPSK	1	216	18.70	18.93	18.74		
40	PI2 BPSK	108	0	18.61	18.94	18.78	19.9	0.0
40	PI2 BPSK	108	54	18.59	18.94	18.81	19.9	0.0
40	PI2 BPSK	108	108	18.64	18.77	18.78	19.9	0.0
40	PI2 BPSK	216	0	18.65	18.85	18.70		
40	QPSK	1	1	18.74	18.95	18.84		
40	QPSK	1	108	18.71	18.74	18.78	19.9	0.0
40	QPSK	1	214	18.73	18.87	18.80		
40	QPSK	108	0	18.59	18.83	18.65	19.9	0.0
40	QPSK	108	54	18.59	18.94	18.82	19.9	0.0
40	QPSK	108	108	18.80	18.91	18.63	19.9	0.0
40	QPSK	216	0	18.76	18.84	18.71		
40	16QAM	1	1	18.56	18.85	18.76	19.9	0.0
40	16QAM	1	1	18.60	18.91	18.84	19.9	0.0
40	256QAM	1	1	18.77	18.94	18.78	19.9	0.0
Channel								
Frequency (MHz)				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	18.89	18.74	18.77	19.9	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	18.81	18.93	18.65	19.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	18.72	18.84	18.76	19.9	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	18.65	18.89	18.66	19.9	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	18.59	18.72	18.70	19.9	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	18.65	18.94	18.80	19.9	0.0

### n66 Main PA Ant2 DSI10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				346000	349000	352000		
40	PI2 BPSK	1	1	18.92	19.14	18.93		
40	PI2 BPSK	1	108	19.01	19.12	18.99	20.5	0.0
40	PI2 BPSK	1	214	19.06	19.09	18.94		
40	PI2 BPSK	108	0	19.02	19.09	18.81	20.5	0.0
40	PI2 BPSK	108	54	18.85	19.24	19.02	20.5	0.0
40	PI2 BPSK	108	108	18.87	19.18	18.99	20.5	0.0
40	PI2 BPSK	216	0	18.84	19.06	18.91		
40	QPSK	1	1	18.96	19.26	18.96		
40	QPSK	1	108	18.92	19.21	18.98	20.5	0.0
40	QPSK	1	214	18.92	19.07	18.97		
40	QPSK	108	0	19.05	19.15	18.94	20.5	0.0
40	QPSK	108	54	18.86	19.20	18.82	20.5	0.0
40	QPSK	108	108	18.99	19.15	18.85	20.5	0.0
40	QPSK	216	0	18.96	19.20	18.93		
40	16QAM	1	1	18.84	19.03	18.97	20.5	0.0
40	16QAM	1	1	18.85	19.23	18.97	20.5	0.0
40	256QAM	1	1	18.90	19.26	18.99	20.5	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	19.04	19.16	18.95	20.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	18.83	19.10	18.93	20.5	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	18.94	19.17	19.01	20.5	0.0
Channel								
Frequency (MHz)				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	18.86	19.10	18.97	20.5	0.0
Channel								
Frequency (MHz)				342500	349000	356500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	18.82	19.24	18.80	20.5	0.0



n38 Main PA Ant2 DS110									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	17.58	17.85	17.61			
40	PI2 BPSK	1	53	17.80	17.83	17.48	18.9	0.0	
40	PI2 BPSK	1	104	17.80	17.81	17.54			
40	PI2 BPSK	50	0	17.74	17.72	17.87	18.9	0.0	
40	PI2 BPSK	50	28	17.71	17.75	17.89	18.9	0.0	
40	PI2 BPSK	50	56	17.78	17.81	17.55	18.9	0.0	
40	PI2 BPSK	100	0	17.70	17.71	17.88			
40	QPSK	1	1	17.76	17.83	17.67			
40	QPSK	1	53	17.68	17.74	17.81	18.9	0.0	
40	QPSK	1	104	17.80	17.83	17.70			
40	QPSK	50	0	17.65	17.66	17.67	18.9	0.0	
40	QPSK	50	28	17.81	17.79	17.57	18.9	0.0	
40	QPSK	50	56	17.89	17.85	17.66	18.9	0.0	
40	QPSK	100	0	17.64	17.76	17.80			
40	16QAM	1	1	17.79	17.76	17.53	18.9	0.0	
40	16QAM	1	1	17.73	17.83	17.57	18.9	0.0	
40	256QAM	1	1	17.77	17.75	17.59	18.9	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	17.81	17.74	17.57	18.9	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	17.80	17.75	17.43	18.9	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.62	17.72	17.54	18.9	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	17.60	17.67	17.71	18.9	0.0	

n41 Main PA Ant2 DS110									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				529202	518598	529200			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.30	17.87	17.77			
100	PI2 BPSK	1	137	17.34	17.82	17.88	18.9	0.0	
100	PI2 BPSK	1	271	17.42	17.87	17.80			
100	PI2 BPSK	135	9	17.44	17.77	17.77	18.9	0.0	
100	PI2 BPSK	135	69	17.26	17.70	17.60	18.9	0.0	
100	PI2 BPSK	135	138	17.23	17.76	17.81	18.9	0.0	
100	PI2 BPSK	270	0	17.34	17.74	17.74			
100	QPSK	1	1	17.49	17.94	17.82			
100	QPSK	1	137	17.38	17.77	17.65	18.9	0.0	
100	QPSK	1	271	17.43	17.92	17.66			
100	QPSK	135	0	17.35	17.73	17.65	18.9	0.0	
100	QPSK	135	69	17.36	17.80	17.80	18.9	0.0	
100	QPSK	135	138	17.39	17.74	17.74			
100	QPSK	270	0	17.30	17.82	17.73			
100	16QAM	1	1	17.24	17.91	17.71	18.9	0.0	
100	16QAM	1	1	17.44	17.74	17.71	18.9	0.0	
100	256QAM	1	1	17.24	17.89	17.81	18.9	0.0	
Channel				530200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.25	17.83	17.70	18.9	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	17.24	17.93	17.73	18.9	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	17.35	17.85	17.61	18.9	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.99			
60	QPSK	1	1	17.28	17.72	17.75	18.9	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.35	17.75	17.73	18.9	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.37	17.73	17.70	18.9	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.39	17.73	17.71	18.9	0.0	
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.43	17.85	17.61	18.9	0.0	



### n2 Main PA Ant3 DSI10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	17.63	17.79	17.54		
20	PI2 BPSK	1	53	17.66	17.67	17.62	18.8	0.0
20	PI2 BPSK	1	164	17.68	17.68	17.66		
20	PI2 BPSK	50	0	17.69	17.74	17.58	18.8	0.0
20	PI2 BPSK	50	28	17.69	17.61	17.46	18.8	0.0
20	PI2 BPSK	50	58	17.50	17.75	17.65	18.8	0.0
20	PI2 BPSK	100	0	17.66	17.73	17.66		
20	QPSK	1	1	17.66	17.61	17.66		
20	QPSK	1	53	17.65	17.58	17.65	18.8	0.0
20	QPSK	1	164	17.70	17.80	17.53		
20	QPSK	50	0	17.52	17.71	17.57	18.8	0.0
20	QPSK	50	28	17.66	17.77	17.59	18.8	0.0
20	QPSK	50	58	17.56	17.60	17.50	18.8	0.0
20	QPSK	100	0	17.68	17.70	17.48	18.8	0.0
20	16QAM	1	1	17.53	17.78	17.60	18.8	0.0
20	16QAM	1	1	17.68	17.77	17.61	18.8	0.0
20	256QAM	1	1	17.66	17.80	17.57	18.8	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.56	17.71	17.48	18.8	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.72	17.71	17.46	18.8	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.67	17.70	17.57	18.8	0.0

### n7 Main PA Ant3 DSI10

BW (MHz)	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)				2620	2635	2650		
40	PI2 BPSK	1	1	17.08	17.04	17.17		
40	PI2 BPSK	1	108	17.17	17.14	17.19	18.7	0.0
40	PI2 BPSK	1	214	17.07	17.20	17.19		
40	PI2 BPSK	108	0	17.05	17.07	17.06	18.7	0.0
40	PI2 BPSK	108	54	17.12	17.10	17.09	18.7	0.0
40	PI2 BPSK	108	108	17.05	17.10	17.01	18.7	0.0
40	PI2 BPSK	216	0	17.01	17.19	17.19		
40	QPSK	1	1	17.12	17.26	17.09		
40	QPSK	1	108	17.08	17.17	17.19	18.7	0.0
40	QPSK	1	214	17.04	17.18	16.98		
40	QPSK	108	0	17.03	17.09	16.99	18.7	0.0
40	QPSK	108	54	17.17	17.24	17.10	18.7	0.0
40	QPSK	108	108	17.16	17.20	17.05	18.7	0.0
40	QPSK	216	0	17.15	17.19	17.08	18.7	0.0
40	16QAM	1	1	17.13	17.15	17.05	18.7	0.0
40	16QAM	1	1	17.22	17.23	17.00	18.7	0.0
40	256QAM	1	1	17.23	17.08	17.20	18.7	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.19	17.18	16.99	18.7	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	17.07	17.17	17.10	18.7	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	17.02	17.13	16.96	18.7	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.22	17.21	17.15	18.7	0.0
Channel								
Frequency (MHz)				2607.5	2635	2662.5	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.22	17.21	17.15	18.7	0.0
Channel								
Frequency (MHz)				2592.5	2635	2667.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.10	17.21	17.07	18.7	0.0

### n66 Main PA Ant3 DSI10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	17.90	18.00	17.83		
40	PI2 BPSK	1	108	17.88	17.94	17.98	18.9	0.0
40	PI2 BPSK	1	214	17.80	18.04	17.80		
40	PI2 BPSK	108	0	17.93	18.06	17.80	18.9	0.0
40	PI2 BPSK	108	54	17.92	18.01	17.96	18.9	0.0
40	PI2 BPSK	108	108	17.88	17.93	17.98	18.9	0.0
40	PI2 BPSK	216	0	17.88	18.05	17.94		
40	QPSK	1	1	18.01	18.06	17.99		
40	QPSK	1	108	17.94	17.96	17.92	18.9	0.0
40	QPSK	1	214	17.97	17.93	17.99		
40	QPSK	108	0	17.96	18.00	17.81	18.9	0.0
40	QPSK	108	54	17.91	18.05	17.87	18.9	0.0
40	QPSK	108	108	17.86	17.97	18.01	18.9	0.0
40	QPSK	216	0	17.90	17.98	17.94	18.9	0.0
40	16QAM	1	1	17.83	17.96	17.87	18.9	0.0
40	16QAM	1	1	17.96	17.99	17.96	18.9	0.0
40	256QAM	1	1	17.82	18.04	17.83	18.9	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.84	17.96	17.83	18.9	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.89	17.89	17.89	18.9	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.81	17.90	17.82	18.9	0.0
Channel								
Frequency (MHz)				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.89	18.01	17.89	18.9	0.0
Channel								
Frequency (MHz)				342600	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.87	17.91	17.98	18.9	0.0



n38 Main PA Ant3 DS110									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				51904	51900	51996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	17.84	18.15	17.85			
40	PI2 BPSK	1	53	17.84	18.01	17.95	19.1	0.0	
40	PI2 BPSK	1	104	18.06	18.06	17.89			
40	PI2 BPSK	50	0	18.09	17.97	17.84	19.1	0.0	
40	PI2 BPSK	50	28	17.91	18.12	17.90	19.1	0.0	
40	PI2 BPSK	50	56	17.93	18.15	17.89	19.1	0.0	
40	PI2 BPSK	100	0	17.85	18.12	17.89			
40	QPSK	1	1	18.09	18.16	18.00			
40	QPSK	1	53	18.00	18.01	17.93	19.1	0.0	
40	QPSK	1	104	18.06	18.08	17.83			
40	QPSK	50	0	17.84	17.95	17.98	19.1	0.0	
40	QPSK	50	28	18.03	18.14	17.83	19.1	0.0	
40	QPSK	50	56	18.11	18.02	17.86			
40	QPSK	100	0	18.08	18.10	17.92	19.1	0.0	
40	16QAM	1	1	17.87	17.95	17.96	19.1	0.0	
40	16QAM	1	1	17.87	18.01	17.99	19.1	0.0	
40	256QAM	1	1	17.91	18.13	17.88	19.1	0.0	
Channel				517002	51900	52098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.06	18.15	17.80	19.1	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.02	18.07	17.91	19.1	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.99	17.95	17.90	19.1	0.0	
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2573.02	2595	2614.98			
10	QPSK	1	1	18.10	18.09	17.95	19.1	0.0	

n41 Main PA Ant3 DS110									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				52902	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.77	18.11	18.00			
100	PI2 BPSK	1	137	17.88	17.95	17.99	19.1	0.0	
100	PI2 BPSK	1	274	17.75	18.11	17.89			
100	PI2 BPSK	135	0	17.87	18.03	17.82	19.1	0.0	
100	PI2 BPSK	135	69	17.68	18.11	17.93	19.1	0.0	
100	PI2 BPSK	135	138	17.78	18.07	17.82	19.1	0.0	
100	PI2 BPSK	270	0	17.88	18.07	17.85			
100	QPSK	1	1	17.87	18.15	18.02			
100	QPSK	1	137	17.81	17.97	17.92	19.1	0.0	
100	QPSK	1	274	17.70	18.02	17.98			
100	QPSK	135	0	17.71	18.03	17.93	19.1	0.0	
100	QPSK	135	69	17.88	18.13	18.02	19.1	0.0	
100	QPSK	135	138	17.69	17.97	17.84	19.1	0.0	
100	QPSK	270	0	17.87	18.10	17.82			
100	16QAM	1	1	17.79	18.05	17.87	19.1	0.0	
100	16QAM	1	1	17.82	18.10	17.94	19.1	0.0	
100	256QAM	1	1	17.85	18.01	17.93	19.1	0.0	
Channel				530200	51898	53098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.86	18.08	17.83	19.1	0.0	
Channel				507204	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	17.73	17.94	17.89	19.1	0.0	
Channel				506202	51898	53100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	17.87	17.99	17.82	19.1	0.0	
Channel				505200	51898	53198	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.99			
60	QPSK	1	1	17.88	17.97	17.91	19.1	0.0	
Channel				504204	51898	53298	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	17.87	17.96	17.85	19.1	0.0	
Channel				503202	51898	53400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.84	17.95	18.04	19.1	0.0	
Channel				502200	51898	53498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.74	18.14	18.02	19.1	0.0	
Channel				501204	51898	53598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.77	17.87	17.81	19.1	0.0	



Full&Default Power Mode for Main PA n77&78

Part270 n77 Main PA Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq				
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	21.09	21.35	21.24				
100	PI/2 BPSK	1	137	21.09	21.29	21.24	23.0		0.0	
100	PI/2 BPSK	1	271	21.08	21.11	21.05				
100	PI/2 BPSK	135	0	21.21	21.28	21.05	23.0		0.0	
100	PI/2 BPSK	135	69	21.05	21.17	21.14	23.0		0.0	
100	PI/2 BPSK	135	138	21.04	21.13	21.05	23.0		0.0	
100	PI/2 BPSK	270	0	21.01	21.14	21.05				
100	QPSK	1	1	21.08	21.35	21.18				
100	QPSK	1	137	21.10	21.14	21.03	23.0		0.0	
100	QPSK	1	271	21.01	21.01	21.01				
100	QPSK	135	0	21.05	21.08	21.03	23.0		0.0	
100	QPSK	135	69	21.12	21.25	21.02	23.0		0.0	
100	QPSK	135	138	21.03	21.10	21.01	23.0		0.0	
100	QPSK	270	0	21.13	21.24	21.15				
100	16QAM	1	1	21.14	21.19	21.05	23.0		0.0	
100	64QAM	1	1	21.23	21.35	21.30	23.0		0.0	
100	256QAM	1	1	20.35	20.42	20.28	22.0	1.0		
Channel										
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	21.11	21.25	21.09	23.0		0.0	
Channel										
Frequency (MHz)				648334	650000	662068				
80	QPSK	1	1	21.26	21.23	21.10	23.0		0.0	
Channel										
Frequency (MHz)				649000	650000	663000				
70	QPSK	1	1	21.23	21.26	21.05	23.0		0.0	
Channel										
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	21.08	21.18	21.10	23.0		0.0	
Channel										
Frequency (MHz)				648334	650000	663668				
50	QPSK	1	1	21.17	21.28	21.03	23.0		0.0	
Channel										
Frequency (MHz)				645000	650000	660000				
40	QPSK	1	1	21.24	21.25	21.02	23.0		0.0	
Channel										
Frequency (MHz)				647688	650000	664334				
30	QPSK	1	1	21.04	21.20	21.01	23.0		0.0	
Channel										
Frequency (MHz)				647334	650000	664668				
20	QPSK	1	1	21.14	21.23	21.14	23.0		0.0	
Channel										
Frequency (MHz)				647168	650000	663634				
15	QPSK	1	1	21.20	21.11	21.15	23.0		0.0	
Channel										
Frequency (MHz)				647000	650000	665000				
10	QPSK	1	1	21.02	21.20	21.07	23.0		0.0	

Part270 n77 PC2 Main PA Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq				
Channel										
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	23.57	23.77	23.39				
100	PI/2 BPSK	1	137	23.49	23.86	23.31	25.0		0.0	
100	PI/2 BPSK	1	271	23.57	23.68	23.30				
100	PI/2 BPSK	135	0	23.50	23.71	23.19	24.5		0.5	
100	PI/2 BPSK	135	69	23.64	23.62	23.24	24.5		0.0	
100	PI/2 BPSK	135	138	23.47	23.56	23.09	25.0		0.5	
100	PI/2 BPSK	270	0	23.46	23.57	23.11				
100	QPSK	1	1	24.08	24.16	23.75				
100	QPSK	1	137	23.53	23.64	23.18	25.0		0.0	
100	QPSK	1	271	23.49	23.68	23.39				
100	QPSK	135	0	23.48	23.59	23.09	24.0		1.0	
100	QPSK	135	69	24.08	24.15	23.77	25.0		0.0	
100	QPSK	135	138	23.41	23.48	22.97	24.0		1.0	
100	QPSK	270	0	23.46	23.66	23.29				
100	16QAM	1	1	23.39	23.48	23.01	24.0		1.0	
100	64QAM	1	1	21.61	21.75	21.40	22.5	2.5		
100	256QAM	1	1	20.10	20.10	19.64	20.5	4.5		
Channel										
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	23.88	24.06	23.82	25.0		0.0	
Channel										
Frequency (MHz)				648334	650000	662068				
80	QPSK	1	1	23.98	24.14	23.79	25.0		0.0	
Channel										
Frequency (MHz)				649000	650000	663000				
70	QPSK	1	1	23.94	24.09	23.87	25.0		0.0	
Channel										
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	23.88	24.11	23.78	25.0		0.0	
Channel										
Frequency (MHz)				648334	650000	663668				
50	QPSK	1	1	23.92	24.10	23.85	25.0		0.0	
Channel										
Frequency (MHz)				645000	650000	660000				
40	QPSK	1	1	24.02	24.13	23.84	25.0		0.0	
Channel										
Frequency (MHz)				647688	650000	664334				
30	QPSK	1	1	23.97	23.96	23.82	25.0		0.0	
Channel										
Frequency (MHz)				647334	650000	664668				
20	QPSK	1	1	24.08	24.01	23.82	25.0		0.0	
Channel										
Frequency (MHz)				647168	650000	663634				
15	QPSK	1	1	23.97	24.00	23.77	25.0		0.0	
Channel										
Frequency (MHz)				647000	650000	665000				
10	QPSK	1	1	23.80	24.14	23.76	25.0		0.0	



Part270 n78 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		21.65				
100	PI/2 BPSK	1	137		21.67		23.0	0.0	
100	PI/2 BPSK	1	271		21.85			25.0	0.0
100	PI/2 BPSK	135	0		21.64		22.5	0.5	
100	PI/2 BPSK	135	69		21.86		23.0	0.0	
100	PI/2 BPSK	135	138		21.53		22.5	0.5	
100	PI/2 BPSK	270	0		21.67		23.0	0.0	
100	QPSK	1	1		21.70				
100	QPSK	1	137		21.56		23.0	0.0	
100	QPSK	1	271		21.58				
100	QPSK	135	0		21.48		22.0	1.0	
100	QPSK	135	69		21.86		23.0	0.0	
100	QPSK	135	138		21.59		22.0	1.0	
100	QPSK	270	0		21.37				
100	16QAM	1	1		20.21		22.0	1.0	
100	64QAM	1	1		19.28		20.5	2.5	
100	256QAM	1	1		17.41		18.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3765.01	23.0	0.0	
90	QPSK	1	1		21.53	21.60	21.54	23.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	23.0	0.0	
80	QPSK	1	1		21.56	21.67	21.53	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	23.0	0.0	
70	QPSK	1	1		21.65	21.52	21.57	23.0	0.0
Channel				648596	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	23.0	0.0	
60	QPSK	1	1		21.59	21.56	21.51	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	23.0	0.0	
50	QPSK	1	1		21.63	21.48	21.49	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	23.0	0.0	
40	QPSK	1	1		21.55	21.59	21.53	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	23.0	0.0	
30	QPSK	1	1		21.68	21.68	21.58	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	23.0	0.0	
20	QPSK	1	1		21.49	21.47	21.62	23.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	23.0	0.0	
15	QPSK	1	1		21.83	21.55	21.61	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	23.0	0.0	
10	QPSK	1	1		21.50	21.46	21.69	23.0	0.0

Part270 n78 PC2 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		24.14				
100	PI/2 BPSK	1	137		24.12		25.0	0.0	
100	PI/2 BPSK	1	271		24.02				
100	PI/2 BPSK	135	0		23.87		24.5	0.5	
100	PI/2 BPSK	135	69		24.09		25.0	0.0	
100	PI/2 BPSK	135	138		24.01		24.5	0.5	
100	PI/2 BPSK	270	0		23.96		25.0	0.0	
100	QPSK	1	1		24.15				
100	QPSK	1	137		23.93		25.0	0.0	
100	QPSK	1	271		23.97				
100	QPSK	135	0		23.62		24.0	1.0	
100	QPSK	135	69		23.98		25.0	0.0	
100	QPSK	135	138		23.28		24.0	1.0	
100	QPSK	270	0		23.51				
100	16QAM	1	1		22.94		24.0	1.0	
100	64QAM	1	1		20.68		22.5	2.5	
100	256QAM	1	1		19.87		20.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3765.01	25.0	0.0	
90	QPSK	1	1		23.95	24.04	24.07	25.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	25.0	0.0	
80	QPSK	1	1		24.04	23.98	23.90	25.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	25.0	0.0	
70	QPSK	1	1		24.05	24.00	23.89	25.0	0.0
Channel				648596	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	25.0	0.0	
60	QPSK	1	1		23.99	24.06	23.99	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	25.0	0.0	
50	QPSK	1	1		23.96	23.86	24.06	25.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	25.0	0.0	
40	QPSK	1	1		24.08	24.05	23.89	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	25.0	0.0	
30	QPSK	1	1		23.99	23.99	23.91	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	25.0	0.0	
20	QPSK	1	1		23.95	23.94	23.89	25.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	25.0	0.0	
15	QPSK	1	1		23.85	23.87	24.04	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	25.0	0.0	
10	QPSK	1	1		24.03	24.03	23.85	25.0	0.0





Part270 n77 Main PA Ant2									
BW (MHz)	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	PI2 BPSK	1	1	21.42	21.53	21.43			
100	PI2 BPSK	1	137	21.56	21.59	21.39	23.0	0.0	
100	PI2 BPSK	1	271	21.46	21.54	21.41			
100	PI2 BPSK	135	0	21.40	21.35	21.34	23.0	0.0	
100	PI2 BPSK	135	69	21.42	21.59	21.56	23.0	0.0	
100	PI2 BPSK	135	138	21.45	21.61	21.43	23.0	0.0	
100	PI2 BPSK	270	0	21.43	21.57	21.58			
100	QPSK	1	1	21.52	21.54	21.41			
100	QPSK	1	137	21.30	21.51	21.37	23.0	0.0	
100	QPSK	1	271	21.47	21.57	21.48			
100	QPSK	135	0	21.38	21.53	21.39	23.0	0.0	
100	QPSK	135	69	21.49	21.56	21.37	23.0	0.0	
100	QPSK	135	138	21.36	21.55	21.37	23.0	0.0	
100	QPSK	270	0	21.45	21.53	21.35			
100	16QAM	1	1	21.53	21.52	21.49	23.0	0.0	
100	16QAM	1	1	21.30	21.52	21.35	23.0	0.0	
100	256QAM	1	1	20.67	20.71	20.54	22.0	1.0	
Channel				643963	650000	643934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.50	21.40	21.41	23.0	0.0	
Channel				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.27	21.39	21.41	23.0	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.48	21.46	21.41	23.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.49	21.48	21.40	23.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.45	21.32	21.33	23.0	0.0	
Channel				645000	650000	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	21.47	21.35	21.38	23.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.02	3840	3923.01			
30	QPSK	1	1	21.43	21.41	21.45	23.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.50	21.34	21.51	23.0	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.45	21.43	21.47	23.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.42	21.37	21.45	23.0	0.0	

Part270 n77 PC2 Main PA Ant2									
BW (MHz)	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	PI2 BPSK	1	1	24.18	24.21	24.01			
100	PI2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0	
100	PI2 BPSK	1	271	24.27	24.30	24.23			
100	PI2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0	
100	PI2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0	
100	PI2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0	
100	PI2 BPSK	270	0	24.13	24.17	24.12			
100	QPSK	1	1	24.31	24.40	24.23			
100	QPSK	1	137	24.33	24.24	24.21	25.0	0.0	
100	QPSK	1	271	24.24	24.23	24.04			
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0	
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0	
100	QPSK	135	138	24.06	24.22	24.13	25.0	0.0	
100	QPSK	270	0	24.11	24.14	24.10			
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0	
100	16QAM	1	1	22.25	22.27	22.27	22.5	2.5	
100	256QAM	1	1	20.20	20.23	20.20	20.5	4.5	
Channel				645968	650000	645934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0	
Channel				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.24	24.11	23.92	25.0	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0	
Channel				645000	650000	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.02	3840	3923.01			
30	QPSK	1	1	24.14	24.04	23.84	25.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0	



Part270 n78 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	22.81	22.81	24.44			
100	PI/2 BPSK	1	137	22.53	22.53	24.44	23.0	0.0	
100	PI/2 BPSK	1	271	22.86	22.86	24.21			25.0
100	PI/2 BPSK	135	0	22.13	22.13	24.16			24.5
100	PI/2 BPSK	135	69	22.51	22.51	24.47			25.0
100	PI/2 BPSK	135	138	22.05	22.05	24.02			24.5
100	PI/2 BPSK	270	0	22.67	22.67	24.01			25.0
100	QPSK	1	1	22.82	22.82	24.48			
100	QPSK	1	137	22.49	22.49	24.40	23.0	0.0	
100	QPSK	1	271	22.42	22.42	24.16			
100	QPSK	135	0	21.59	21.59	23.71			24.0
100	QPSK	135	69	22.38	22.38	24.43			25.0
100	QPSK	135	138	21.47	21.47	23.49			24.0
100	QPSK	270	0	21.51	21.51	23.01			24.0
100	16QAM	1	1	21.14	21.14	23.26			24.0
100	16QAM	1	1	19.88	19.88	21.24			22.5
100	256QAM	1	1	18.44	18.44	20.28			20.5
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.45	22.52	22.48	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.33	22.44	22.52	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.55	22.47	22.39	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	22.42	22.49	22.57	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.57	22.53	22.42	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.50	22.56	22.57	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.51	22.42	22.57	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.43	22.58	22.38	23.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.53			
15	QPSK	1	1	22.54	22.55	22.45	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.53	22.57	22.55	23.0	0.0	

Part270 n78 PC2 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	24.44	24.44	24.44			
100	PI/2 BPSK	1	137	24.44	24.44	24.44	25.0	0.0	
100	PI/2 BPSK	1	271	24.21	24.21	24.21			25.0
100	PI/2 BPSK	135	0	24.16	24.16	24.16			24.5
100	PI/2 BPSK	135	69	24.47	24.47	24.47			25.0
100	PI/2 BPSK	135	138	24.02	24.02	24.02			24.5
100	PI/2 BPSK	270	0	24.01	24.01	24.01			25.0
100	QPSK	1	1	24.48	24.48	24.48			
100	QPSK	1	137	24.40	24.40	24.40	25.0	0.0	
100	QPSK	1	271	24.16	24.16	24.16			
100	QPSK	135	0	23.71	23.71	23.71			24.0
100	QPSK	135	69	24.43	24.43	24.43			25.0
100	QPSK	135	138	23.49	23.49	23.49			24.0
100	QPSK	270	0	23.01	23.01	23.01			24.0
100	16QAM	1	1	23.26	23.26	23.26			24.0
100	16QAM	1	1	21.24	21.24	21.24			22.5
100	256QAM	1	1	20.28	20.28	20.28			20.5
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	24.41	24.36	24.40	25.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	24.35	24.42	24.24	25.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	24.34	24.23	24.32	25.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	24.44	24.46	24.42	25.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	24.33	24.27	24.42	25.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	24.43	24.34	24.34	25.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	24.27	24.29	24.33	25.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	24.40	24.24	24.46	25.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.53			
15	QPSK	1	1	24.40	24.40	24.44	25.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	24.42	24.29	24.30	25.0	0.0	



Part270 n77 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3760	3840	3930			
100	PI2 BPSK	1	1	23.48	23.59	23.52			
100	PI2 BPSK	1	137	23.60	23.65	23.55	24.0	0.0	
100	PI2 BPSK	1	271	23.62	23.66	23.60			
100	PI2 BPSK	135	0	23.44	23.81	23.57	24.0	0.0	
100	PI2 BPSK	135	69	23.46	23.58	23.52	24.0	0.0	
100	PI2 BPSK	135	138	23.36	23.55	23.40	24.0	0.0	
100	PI2 BPSK	270	0	23.52	23.57	23.35			
100	QPSK	1	1	23.52	23.71	23.64			
100	QPSK	1	137	23.48	23.86	23.51	24.0	0.0	
100	QPSK	1	271	23.44	23.65	23.51			
100	QPSK	135	0	23.47	23.61	23.50	24.0	0.0	
100	QPSK	135	69	23.55	23.62	23.54	24.0	0.0	
100	QPSK	135	138	23.43	23.57	23.38	24.0	0.0	
100	QPSK	270	0	23.48	23.54	23.42			
100	16QAM	1	1	23.41	23.60	23.54	24.0	0.0	
100	16QAM	1	1	23.36	23.46	23.38	24.0	0.0	
100	256QAM	1	1	22.81	22.94	22.89	23.0	1.0	
Channel				643668	650000	643334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3835.01			
90	QPSK	1	1	23.38	23.57	23.48	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.43	23.62	23.31	24.0	0.0	
Channel				645000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.32	23.63	23.31	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.39	23.52	23.30	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.33	23.47	23.44	24.0	0.0	
Channel				645000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	23.26	23.55	23.34	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.02	3840	3923.01			
30	QPSK	1	1	23.33	23.55	23.55	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.36	23.54	23.47	24.0	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.34	23.88	23.54	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.38	23.62	23.63	24.0	0.0	

Part270 n77 PC2 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3760	3840	3930			
100	PI2 BPSK	1	1	26.13	26.20	25.98			
100	PI2 BPSK	1	137	26.32	26.40	26.35	27.0	0.0	
100	PI2 BPSK	1	271	26.23	26.37	26.29			
100	PI2 BPSK	135	0	26.05	26.24	26.18	27.0	0.0	
100	PI2 BPSK	135	69	26.11	26.21	26.07	27.0	0.0	
100	PI2 BPSK	135	138	26.03	26.22	26.13	27.0	0.0	
100	PI2 BPSK	270	0	26.18	26.21	26.18			
100	QPSK	1	1	26.29	26.47	26.27			
100	QPSK	1	137	26.20	26.24	26.17	27.0	0.0	
100	QPSK	1	271	25.94	26.08	25.88			
100	QPSK	135	0	25.89	25.95	25.84	27.0	0.0	
100	QPSK	135	69	26.14	26.35	26.13	27.0	0.0	
100	QPSK	135	138	25.75	25.91	25.88	27.0	0.0	
100	QPSK	270	0	26.05	26.09	25.95			
100	16QAM	1	1	25.91	25.98	25.82	26.0	1.0	
100	16QAM	1	1	24.13	24.28	24.22	24.5	2.5	
100	256QAM	1	1	22.09	22.23	22.15	22.5	4.5	
Channel				645668	650000	643334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	26.15	26.15	26.24	27.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.32	26.35	26.12	27.0	0.0	
Channel				645000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.11	26.20	26.18	27.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	26.25	26.14	26.27	27.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.13	26.30	26.14	27.0	0.0	
Channel				645000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	26.13	26.19	26.23	27.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.02	3840	3923.01			
30	QPSK	1	1	26.14	26.19	26.22	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	26.23	26.31	26.17	27.0	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	26.30	26.44	26.19	27.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	26.10	26.44	26.18	27.0	0.0	



Part270 n78 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.87					
100	PI/2 BPSK	1	137	22.85			24.0	0.0	
100	PI/2 BPSK	1	271	22.81					
100	PI/2 BPSK	135	0	22.85			24.0	0.0	
100	PI/2 BPSK	135	69	22.88			24.0	0.0	
100	PI/2 BPSK	135	138	22.85			24.0	0.0	
100	PI/2 BPSK	270	0	22.67					
100	QPSK	1	1	22.98					
100	QPSK	1	137	22.92			24.0	0.0	
100	QPSK	1	271	22.95					
100	QPSK	135	0	22.88			24.0	0.0	
100	QPSK	135	69	22.87			24.0	0.0	
100	QPSK	135	138	22.81			24.0	0.0	
100	QPSK	270	0	22.89					
100	16QAM	1	1	22.74			24.0	0.0	
100	16QAM	1	1	21.75			23.0	1.0	
100	256QAM	1	1	20.81			22.0	2.0	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.78	22.90	22.90	24.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.82	22.80	22.54	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.91	22.85	22.83	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.97	22.75	22.77	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.93	22.69	22.78	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.92	22.88	22.92	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	22.82	22.88	22.94	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.86	22.79	22.90	24.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.88	22.77	22.87	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.84	22.67	22.81	24.0	0.0	

Part270 n78 PC2 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1	25.78					
100	PI/2 BPSK	1	137	25.81			27.0	0.0	
100	PI/2 BPSK	1	271	26.03					
100	PI/2 BPSK	135	0	25.91			26.5	0.5	
100	PI/2 BPSK	135	69	25.88			27.0	0.0	
100	PI/2 BPSK	135	138	25.80			26.5	0.5	
100	PI/2 BPSK	270	0	25.97					
100	QPSK	1	1	26.08					
100	QPSK	1	137	25.91			27.0	0.0	
100	QPSK	1	271	25.65					
100	QPSK	135	0	24.97			26.0	1.0	
100	QPSK	135	69	25.94			27.0	0.0	
100	QPSK	135	138	24.80			26.0	1.0	
100	QPSK	270	0	25.94					
100	16QAM	1	1	25.20			26.0	1.0	
100	16QAM	1	1	22.73			24.5	2.5	
100	256QAM	1	1	22.37			22.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	25.86	25.84	25.82	27.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	25.83	25.91	25.99	27.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	25.80	25.96	25.86	27.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	25.82	25.81	25.79	27.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	25.88	25.92	25.96	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	25.90	25.84	25.90	27.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	25.91	25.91	26.00	27.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	25.82	25.83	25.96	27.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	25.75	25.84	25.91	27.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	25.82	25.86	25.86	26.0	1.0	



Part270 n77 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	Pl2 BPSK	1	1	23.49	23.52	23.34			
100	Pl2 BPSK	1	137	23.43	23.56	23.40	24.0	0.0	
100	Pl2 BPSK	1	271	23.39	23.56	23.40			
100	Pl2 BPSK	135	0	23.44	23.53	23.39	24.0	0.0	
100	Pl2 BPSK	135	69	23.41	23.52	23.38	24.0	0.0	
100	Pl2 BPSK	135	138	23.28	23.44	23.31	24.0	0.0	
100	Pl2 BPSK	270	0	23.40	23.53	23.35			
100	QPSK	1	1	23.39	23.58	23.55			
100	QPSK	1	137	23.46	23.52	23.36	24.0	0.0	
100	QPSK	1	271	23.32	23.51	23.33			
100	QPSK	135	0	23.42	23.43	23.23	24.0	0.0	
100	QPSK	135	69	23.33	23.52	23.31	24.0	0.0	
100	QPSK	135	138	23.45	23.51	23.51	24.0	0.0	
100	QPSK	270	0	23.44	23.50	23.32			
100	16QAM	1	1	23.19	23.35	23.27	24.0	0.0	
100	16QAM	1	1	23.40	23.52	23.39	24.0	0.0	
100	256QAM	1	1	22.99	23.08	22.95	23.5	0.5	
Channel				649598	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.27	23.42	23.05	24.0	0.0	
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.24	23.23	23.24	24.0	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.24	23.33	23.04	24.0	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.25	23.43	23.24	24.0	0.0	
Channel				648334	650000	653688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.43	23.40	23.06	24.0	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.30	23.43	23.19	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	23.24	23.24	23.17	24.0	0.0	
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.27	23.22	23.23	24.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.25	23.30	23.14	24.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.24	23.38	23.16	24.0	0.0	

Part270 n77 PC2 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	Pl2 BPSK	1	1	26.20	26.51	26.40			
100	Pl2 BPSK	1	137	26.38	26.46	26.27	27.0	0.0	
100	Pl2 BPSK	1	271	26.27	26.38	26.21			
100	Pl2 BPSK	135	0	26.38	26.48	26.27	27.0	0.0	
100	Pl2 BPSK	135	69	26.31	26.43	26.33	27.0	0.0	
100	Pl2 BPSK	135	138	26.09	26.33	26.17	27.0	0.0	
100	Pl2 BPSK	270	0	26.32	26.48	26.33			
100	QPSK	1	1	26.39	26.57	26.31			
100	QPSK	1	137	26.29	26.51	26.35	27.0	0.0	
100	QPSK	1	271	26.11	26.37	26.12			
100	QPSK	135	0	26.19	26.32	26.24	27.0	0.0	
100	QPSK	135	69	26.28	26.43	26.34	27.0	0.0	
100	QPSK	135	138	26.04	26.27	26.12	27.0	0.0	
100	QPSK	270	0	26.05	26.32	26.16			
100	16QAM	1	1	26.23	26.39	26.12	27.0	0.0	
100	16QAM	1	1	24.76	25.06	24.91	26.0	1.0	
100	256QAM	1	1	21.18	21.42	21.26	22.5	4.5	
Channel				649598	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	26.10	26.36	26.15	27.0	0.0	
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.21	26.39	26.32	27.0	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.12	26.40	26.14	27.0	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	26.20	26.38	26.13	27.0	0.0	
Channel				648334	650000	653688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.17	26.49	26.19	27.0	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.26	26.50	26.32	27.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	26.35	26.39	26.27	27.0	0.0	
Channel				647334	650000	654688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	26.13	26.47	26.32	27.0	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	26.26	26.49	26.31	27.0	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	26.11	26.50	26.33	27.0	0.0	



Part270 n78 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3750	3750	3750			
100	PI2 BPSK	1	1		23.31				
100	PI2 BPSK	1	137		23.41				0.0
100	PI2 BPSK	1	271		23.35				0.0
100	PI2 BPSK	135	0		23.22		24.0	0.0	
100	PI2 BPSK	135	69		23.34		24.0	0.0	
100	PI2 BPSK	135	138		23.33		24.0	0.0	
100	PI2 BPSK	270	0		23.22		24.0	0.0	
100	QPSK	1	1		23.57				0.0
100	QPSK	1	137		23.52		24.0	0.0	
100	QPSK	1	271		23.54				0.0
100	QPSK	135	0		23.48		24.0	0.0	
100	QPSK	135	69		23.52		24.0	0.0	
100	QPSK	135	138		23.44		24.0	0.0	
100	QPSK	270	0		23.52		24.0	0.0	
100	16QAM	1	1		23.52		24.0	0.0	
100	64QAM	1	1		22.46		23.0	1.0	
100	256QAM	1	1		20.93		21.5	2.5	
Channel									
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3745.02	3750	3755.01			
90	QPSK	1	1		23.49	23.51	23.56	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		23.39	23.42	23.50	24.0	0.0
Channel									
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3735	3750	3765			
70	QPSK	1	1		23.56	23.43	23.50	24.0	0.0
Channel									
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3730.02	3750	3750.01			
60	QPSK	1	1		23.42	23.56	23.54	24.0	0.0
Channel									
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3725.01	3750	3755.02			
50	QPSK	1	1		23.45	23.39	23.45	24.0	0.0
Channel									
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3720	3750	3780			
40	QPSK	1	1		23.38	23.41	23.41	24.0	0.0
Channel									
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3715.02	3750	3765.01			
30	QPSK	1	0		23.50	23.39	23.39	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		23.48	23.55	23.48	24.0	0.0
Channel									
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3707.53	3750	3792.51			
15	QPSK	1	1		23.48	23.47	23.46	24.0	0.0
Channel									
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705	3750	3795			
10	QPSK	1	1		23.54	23.55	23.48	24.0	0.0

Part270 n78 PC2 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3750	3750	3750			
100	PI2 BPSK	1	1		26.45				
100	PI2 BPSK	1	137		26.54				0.0
100	PI2 BPSK	1	271		26.51				0.0
100	PI2 BPSK	135	0		26.38		27.0	0.0	
100	PI2 BPSK	135	69		26.51		27.0	0.0	
100	PI2 BPSK	135	138		26.45		27.0	0.0	
100	PI2 BPSK	270	0		26.34		27.0	0.0	
100	QPSK	1	1		26.56				0.0
100	QPSK	1	137		26.54		27.0	0.0	
100	QPSK	1	271		26.52				0.0
100	QPSK	135	0		26.51		27.0	0.0	
100	QPSK	135	69		26.42		27.0	0.0	
100	QPSK	135	138		26.38		27.0	0.0	
100	QPSK	270	0		26.45		27.0	0.0	
100	16QAM	1	1		26.28		27.0	0.0	
100	64QAM	1	1		24.74		26.0	1.0	
100	256QAM	1	1		23.09		24.5	2.5	
Channel									
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3745.02	3750	3755.01			
90	QPSK	1	1		26.52	26.52	26.31	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		26.57	23.49	26.39	27.0	0.0
Channel									
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3735	3750	3765			
70	QPSK	1	1		26.53	26.39	26.45	27.0	0.0
Channel									
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3730.02	3750	3750.01			
60	QPSK	1	1		26.44	26.52	26.46	27.0	0.0
Channel									
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3725.01	3750	3755.02			
50	QPSK	1	1		26.48	26.31	26.44	27.0	0.0
Channel									
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3720	3750	3780			
40	QPSK	1	1		26.34	26.42	26.42	27.0	0.0
Channel									
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3715.02	3750	3765.01			
30	QPSK	1	1		26.39	23.44	26.40	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		26.39	26.36	26.39	27.0	0.0
Channel									
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3707.53	3750	3792.51			
15	QPSK	1	1		26.52	26.50	26.36	27.0	0.0
Channel									
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705	3750	3795			
10	QPSK	1	1		26.45	26.54	26.35	27.0	0.0



Reduced Power Mode for Main PA n77&78 DS12

Part270 n77 Main PA Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	12.69	12.68	12.58	14.1	0.0	
100	PI2 BPSK	1	137	12.73	12.59	12.55			
100	PI2 BPSK	1	271	12.64	12.69	12.74			
100	PI2 BPSK	135	0	12.68	12.68	12.69	14.1	0.0	
100	PI2 BPSK	135	69	12.57	12.61	12.71	14.1	0.0	
100	PI2 BPSK	135	138	12.60	12.76	12.55	14.1	0.0	
100	PI2 BPSK	270	0	12.73	12.65	12.52	14.1	0.0	
100	QPSK	1	1	12.75	12.63	12.66			
100	QPSK	1	137	12.61	12.64	12.76	14.1	0.0	
100	QPSK	1	271	12.70	12.60	12.65			
100	QPSK	135	0	12.71	12.61	12.58	14.1	0.0	
100	QPSK	135	69	12.68	12.78	12.69	14.1	0.0	
100	QPSK	135	138	12.63	12.72	12.63	14.1	0.0	
100	QPSK	270	0	12.61	12.75	12.72			
100	16QAM	1	1	12.70	12.60	12.53	14.1	0.0	
100	64QAM	1	1	12.57	12.67	12.53	14.1	0.0	
100	256QAM	1	1	12.72	12.72	12.57	14.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	12.54	12.73	12.56	14.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3840	3940.02			
80	QPSK	1	1	12.65	12.75	12.68	14.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3753	3840	3945			
70	QPSK	1	1	12.75	12.67	12.62	14.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
80	QPSK	1	1	12.63	12.74	12.61	14.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	12.73	12.64	12.64	14.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	12.63	12.62	12.57	14.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	12.64	12.62	12.60	14.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	12.73	12.74	12.71	14.1	0.0	
Channel				647000	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	12.75	12.70	12.57	14.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	12.69	12.60	12.68	14.1	0.0	

Part270 n77 PC2 Main PA Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.35	15.44	15.36	17.1	0.0	
100	PI2 BPSK	1	137	15.32	15.48	15.32			
100	PI2 BPSK	1	271	15.29	15.44	15.44			
100	PI2 BPSK	135	0	15.46	15.33	15.43	17.1	0.0	
100	PI2 BPSK	135	69	15.45	15.36	15.27	17.1	0.0	
100	PI2 BPSK	135	138	15.35	15.23	15.27	17.1	0.0	
100	PI2 BPSK	270	0	15.31	15.30	15.31	17.1	0.0	
100	QPSK	1	1	15.46	15.52	15.39			
100	QPSK	1	137	15.34	15.31	15.31	17.1	0.0	
100	QPSK	1	271	15.26	15.43	15.46			
100	QPSK	135	0	15.34	15.50	15.32	17.1	0.0	
100	QPSK	135	69	15.45	15.51	15.40	17.1	0.0	
100	QPSK	135	138	15.32	15.38	15.27	17.1	0.0	
100	QPSK	270	0	15.24	15.43	15.32			
100	16QAM	1	1	15.35	15.46	15.46	17.1	0.0	
100	64QAM	1	1	15.34	15.40	15.44	17.1	0.0	
100	256QAM	1	1	15.43	15.35	15.28	17.1	0.0	
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.32	15.39	15.28	17.1	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3840	3940.02			
80	QPSK	1	1	15.34	15.33	15.46	17.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3753	3840	3945			
70	QPSK	1	1	15.28	15.40	15.29	17.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.35	15.30	15.46	17.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.30	15.41	15.46	17.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.27	15.49	15.38	17.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.43	15.44	15.49	17.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.46	15.46	15.30	17.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.45	15.42	15.29	17.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.24	15.50	15.28	17.1	0.0	



Part270 n78 Main PA Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1	12.54	12.54	12.54			
100	PI2 BPSK	1	137	12.50	12.50	12.50	14.1	0.0	
100	PI2 BPSK	1	271	12.49	12.49	12.49			
100	PI2 BPSK	135	0	12.48	12.48	12.48	14.1	0.0	
100	PI2 BPSK	135	69	12.67	12.67	12.67	14.1	0.0	
100	PI2 BPSK	135	138	12.78	12.78	12.78	14.1	0.0	
100	PI2 BPSK	270	0	12.52	12.52	12.52	14.1	0.0	
100	QPSK	1	1	12.81	12.81	12.81			
100	QPSK	1	137	12.80	12.80	12.80	14.1	0.0	
100	QPSK	1	271	12.48	12.48	12.48			
100	QPSK	135	0	12.53	12.53	12.53	14.1	0.0	
100	QPSK	135	69	12.75	12.75	12.75	14.1	0.0	
100	QPSK	135	138	12.89	12.89	12.89	14.1	0.0	
100	QPSK	270	0	12.71	12.71	12.71	14.1	0.0	
100	16QAM	1	1	12.73	12.73	12.73	14.1	0.0	
100	64QAM	1	1	12.61	12.61	12.61	14.1	0.0	
100	256QAM	1	1	12.58	12.58	12.58	14.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01	14.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	14.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.57	12.60	12.49	14.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730.02	3750	3770.01	14.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.51	12.48	12.58	14.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3750	3780	14.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.57	12.60	12.45	14.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.81	12.44	12.42	14.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.83	12.60	12.61	14.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.50	12.66	12.61	14.1	0.0	

Part270 n78 PC2 Main PA Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.24	15.24	15.24			
100	PI2 BPSK	1	137	15.31	15.31	15.31	17.1	0.0	
100	PI2 BPSK	1	271	15.32	15.32	15.32			
100	PI2 BPSK	135	0	15.18	15.18	15.18	17.1	0.0	
100	PI2 BPSK	135	69	15.38	15.38	15.38	17.1	0.0	
100	PI2 BPSK	135	138	15.34	15.34	15.34	17.1	0.0	
100	PI2 BPSK	270	0	15.11	15.11	15.11	17.1	0.0	
100	QPSK	1	1	15.49	15.49	15.49			
100	QPSK	1	137	15.13	15.13	15.13	17.1	0.0	
100	QPSK	1	271	15.32	15.32	15.32			
100	QPSK	135	0	15.38	15.38	15.38	17.1	0.0	
100	QPSK	135	69	15.48	15.48	15.48	17.1	0.0	
100	QPSK	135	138	15.20	15.20	15.20	17.1	0.0	
100	QPSK	270	0	15.45	15.45	15.45	17.1	0.0	
100	16QAM	1	1	15.27	15.27	15.27	17.1	0.0	
100	64QAM	1	1	15.21	15.21	15.21	17.1	0.0	
100	256QAM	1	1	15.21	15.21	15.21	17.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01	14.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	14.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.44	15.37	15.43	17.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730.02	3750	3770.01	14.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.35	15.32	15.31	17.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3750	3780	14.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.29	15.27	15.41	17.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.27	15.47	15.40	17.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.45	15.48	15.38	17.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.42	15.38	15.31	17.1	0.0	





### Part270 n77 Main PA Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930		
Frequency (MHz)								
100	PI2 BPSK	1	1	21.42	21.53	21.43		
100	PI2 BPSK	1	137	21.56	21.59	21.39	23.0	0.0
100	PI2 BPSK	1	271	21.46	21.54	21.41		
100	PI2 BPSK	135	0	21.40	21.55	21.34	23.0	0.0
100	PI2 BPSK	135	69	21.42	21.59	21.58	23.0	0.0
100	PI2 BPSK	135	138	21.45	21.61	21.43	23.0	0.0
100	PI2 BPSK	270	0	21.43	21.57	21.58		
100	QPSK	1	1	21.52	21.64	21.41		
100	QPSK	1	137	21.30	21.51	21.37	23.0	0.0
100	QPSK	1	271	21.47	21.57	21.48		
100	QPSK	135	0	21.38	21.53	21.39	23.0	0.0
100	QPSK	135	69	21.49	21.56	21.37	23.0	0.0
100	QPSK	135	138	21.36	21.55	21.37	23.0	0.0
100	QPSK	270	0	21.45	21.53	21.35	23.0	0.0
100	16QAM	1	1	21.53	21.52	21.49	23.0	0.0
100	64QAM	1	1	21.30	21.52	21.35	23.0	0.0
100	256QAM	1	1	20.67	20.71	20.54	22.0	1.0
Channel				649598	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.50	21.40	21.41	23.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.37	21.39	21.41	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.48	21.46	21.41	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.49	21.48	21.40	23.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.45	21.32	21.33	23.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.47	21.35	21.38	23.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	21.43	21.41	21.45	23.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.50	21.34	21.51	23.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3971.51		
15	QPSK	1	1	21.45	21.43	21.47	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	21.42	21.37	21.45	23.0	0.0

### Part270 n77 PC2 Main PA Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930		
Frequency (MHz)								
100	PI2 BPSK	1	1	24.18	24.21	24.01		
100	PI2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0
100	PI2 BPSK	1	271	24.27	24.30	24.23		
100	PI2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0
100	PI2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0
100	PI2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0
100	PI2 BPSK	270	0	24.13	24.17	24.12		
100	QPSK	1	1	24.31	24.40	24.23		
100	QPSK	1	137	24.13	24.24	24.21	25.0	0.0
100	QPSK	1	271	24.24	24.23	24.04		
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0
100	QPSK	135	138	24.08	24.22	24.13	25.0	0.0
100	QPSK	270	0	24.11	24.14	24.10		
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0
100	64QAM	1	1	22.25	22.27	22.27	22.5	2.5
100	256QAM	1	1	20.20	20.23	20.20	20.5	4.5
Channel				649598	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.24	24.11	23.92	25.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	24.14	24.04	23.84	25.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3971.51		
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0



Part270 n78 Main PA Ant2 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		22.61				
100	PI2 BPSK	1	137		22.53			0.0	
100	PI2 BPSK	1	271		22.58				
100	PI2 BPSK	135	0		22.13			22.5	0.5
100	PI2 BPSK	135	69		22.51			23.0	0.0
100	PI2 BPSK	135	138		22.05			22.5	0.5
100	PI2 BPSK	270	0		22.07			23.0	0.0
100	QPSK	1	1		22.23				
100	QPSK	1	137		22.49			23.0	0.0
100	QPSK	1	271		22.42				
100	QPSK	135	0		21.59			22.0	1.0
100	QPSK	135	69		22.38			23.0	0.0
100	QPSK	135	138		21.47			22.0	1.0
100	QPSK	270	0		21.51			24.0	1.0
100	16QAM	1	1		21.14			22.0	1.0
100	64QAM	1	1		19.88			20.5	2.5
100	256QAM	1	1		18.44			18.5	4.5
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.45	22.52	22.48	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.39	22.44	22.82	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.55	22.47	22.39	23.0	0.0
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.42	22.49	22.57	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.57	22.53	22.42	23.0	0.0
Channel				647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.50	22.56	22.57	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	0		22.51	22.43	22.57	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.43	22.56	22.38	23.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.53	3750	3792.51			
15	QPSK	1	1		22.54	22.55	22.45	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.53	22.57	22.55	23.0	0.0

Part270 n78 PC2 Main PA Ant2 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		24.44				
100	PI2 BPSK	1	137		24.44			25.0	0.0
100	PI2 BPSK	1	271		24.21				
100	PI2 BPSK	135	0		24.16			24.5	0.5
100	PI2 BPSK	135	69		24.47			25.0	0.0
100	PI2 BPSK	135	138		24.02			24.5	0.5
100	PI2 BPSK	270	0		24.01			25.0	0.0
100	QPSK	1	1		24.48				
100	QPSK	1	137		24.40			25.0	0.0
100	QPSK	1	271		24.18				
100	QPSK	135	0		23.71			24.0	1.0
100	QPSK	135	69		24.43			25.0	0.0
100	QPSK	135	138		23.48			24.0	1.0
100	QPSK	270	0		23.61			24.0	1.0
100	16QAM	1	1		23.28			24.0	1.0
100	64QAM	1	1		21.24			22.5	2.5
100	256QAM	1	1		20.28			20.5	4.5
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		24.41	24.38	24.40	25.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		24.35	24.42	24.34	25.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		24.34	24.23	24.32	25.0	0.0
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		24.44	24.48	24.42	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		24.33	24.27	24.42	25.0	0.0
Channel				647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		24.43	24.34	24.34	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		24.27	24.28	24.23	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		24.40	24.24	24.48	25.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.53	3750	3792.51			
15	QPSK	1	1		24.40	24.40	24.44	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		24.42	24.29	24.30	25.0	0.0



Part270 n77 Main PA Ant3 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	14.94	14.95	14.73			
100	PI2 BPSK	1	137	14.79	14.90	14.81	19.2	0.0	
100	PI2 BPSK	1	271	14.85	14.82	14.78			
100	PI2 BPSK	135	0	14.98	14.89	14.68	19.2	0.0	
100	PI2 BPSK	135	69	14.86	14.82	14.76	19.2	0.0	
100	PI2 BPSK	135	138	14.98	15.00	14.84	19.2	0.0	
100	PI2 BPSK	270	0	14.98	14.95	14.85			
100	QPSK	1	1	14.96	15.04	14.98			
100	QPSK	1	137	14.92	14.91	14.81	19.2	0.0	
100	QPSK	1	271	14.96	14.99	14.87			
100	QPSK	135	0	14.77	14.88	14.73	19.2	0.0	
100	QPSK	135	69	14.89	14.67	14.79	19.2	0.0	
100	QPSK	135	138	14.90	14.62	14.76	19.2	0.0	
100	QPSK	270	0	14.87	14.94	14.80			
100	16QAM	1	1	14.93	14.86	14.70	19.2	0.0	
100	16QAM	1	1	14.96	14.91	14.82	19.2	0.0	
100	256QAM	1	1	14.77	14.67	14.88	19.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	14.88	14.87	14.74	19.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	14.80	15.00	14.81	19.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	14.82	14.95	14.72	19.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	14.78	14.98	14.89	19.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	14.82	14.83	14.78	19.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	14.87	14.83	14.88	19.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	14.80	14.92	14.87	19.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	14.87	14.93	14.79	19.2	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3840	3975.61			
15	QPSK	1	1	14.78	14.99	14.88	19.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	14.94	14.99	14.90	19.2	0.0	

Part270 n77 PC2 Main PA Ant3 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	17.95	17.98	17.83			
100	PI2 BPSK	1	137	17.74	17.88	17.63	19.2	0.0	
100	PI2 BPSK	1	271	17.94	17.91	17.83			
100	PI2 BPSK	135	0	17.75	17.84	17.78	19.2	0.0	
100	PI2 BPSK	135	69	17.95	17.92	17.83	19.2	0.0	
100	PI2 BPSK	135	138	17.86	17.95	17.85	19.2	0.0	
100	PI2 BPSK	270	0	17.94	17.89	17.87			
100	QPSK	1	1	17.96	18.05	17.85			
100	QPSK	1	137	17.95	18.04	17.89	19.2	0.0	
100	QPSK	1	271	17.86	17.88	17.74			
100	QPSK	135	0	17.81	18.00	17.84	19.2	0.0	
100	QPSK	135	69	17.94	18.02	17.87	19.2	0.0	
100	QPSK	135	138	17.74	18.00	17.88	19.2	0.0	
100	QPSK	270	0	17.80	17.95	17.84			
100	16QAM	1	1	17.98	17.99	17.89	19.2	0.0	
100	16QAM	1	1	17.76	18.03	17.75	19.2	0.0	
100	256QAM	1	1	17.82	17.83	17.81	19.2	0.0	
Channel				649568	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.95	17.95	17.74	19.2	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.86	17.85	17.64	19.2	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.76	18.00	17.71	19.2	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.74	18.00	17.67	19.2	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.76	17.85	17.71	19.2	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.80	17.98	17.86	19.2	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.83	17.87	17.70	19.2	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.97	17.86	17.63	19.2	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	3840	3975.61			
15	QPSK	1	1	17.85	17.97	17.77	19.2	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.78	17.88	17.76	19.2	0.0	



Part270 n78 Main PA Ant3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		14.55				
100	PI2 BPSK	1	137		14.55			16.2	0.0
100	PI2 BPSK	1	271		14.55			16.2	0.0
100	PI2 BPSK	135	0		14.81			16.2	0.0
100	PI2 BPSK	135	69		14.41			16.2	0.0
100	PI2 BPSK	135	138		14.43			16.2	0.0
100	PI2 BPSK	270	0		14.47			16.2	0.0
100	QPSK	1	1		14.62			16.2	0.0
100	QPSK	1	137		14.81			16.2	0.0
100	QPSK	1	271		14.80			16.2	0.0
100	QPSK	135	0		14.41			16.2	0.0
100	QPSK	135	69		14.55			16.2	0.0
100	QPSK	135	138		14.54			16.2	0.0
100	QPSK	270	0		14.42			16.2	0.0
100	16QAM	1	1		14.47			16.2	0.0
100	64QAM	1	1		14.45			16.2	0.0
100	256QAM	1	1		14.55			16.2	0.0
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	14.43	14.49	14.50	16.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	14.60	14.44	14.20	16.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	14.44	14.59	14.61	16.2	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1	14.47	14.49	14.48	16.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1	14.53	14.51	14.42	16.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	14.62	14.49	14.56	16.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	0	14.42	14.47	14.54	16.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	14.80	14.43	14.54	16.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1	14.43	14.52	14.60	16.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	14.57	14.40	14.43	16.2	0.0	

Part270 n78 PC2 Main PA Ant3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		17.51				
100	PI2 BPSK	1	137		17.56			19.2	0.0
100	PI2 BPSK	1	271		17.67			19.2	0.0
100	PI2 BPSK	135	0		17.53			19.2	0.0
100	PI2 BPSK	135	69		17.62			19.2	0.0
100	PI2 BPSK	135	138		17.51			19.2	0.0
100	PI2 BPSK	270	0		17.49			19.2	0.0
100	QPSK	1	1		17.68			19.2	0.0
100	QPSK	1	137		17.61			19.2	0.0
100	QPSK	1	271		17.49			19.2	0.0
100	QPSK	135	0		17.49			19.2	0.0
100	QPSK	135	69		17.59			19.2	0.0
100	QPSK	135	138		17.48			19.2	0.0
100	QPSK	270	0		17.57			19.2	0.0
100	16QAM	1	1		17.60			19.2	0.0
100	64QAM	1	1		17.65			19.2	0.0
100	256QAM	1	1		17.66			19.2	0.0
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.53	17.46	17.54	19.2	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.55	17.45	17.54	19.2	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.64	17.49	17.68	19.2	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1	17.60	17.51	17.48	19.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1	17.44	17.55	17.48	19.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.53	17.65	17.56	19.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	17.54	17.46	17.64	19.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.64	17.66	17.48	19.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1	17.63	17.45	17.64	19.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	17.48	17.63	17.59	19.2	0.0	



Part270 n77 Main PA Ant5 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.38	15.30	15.40			
100	PI2 BPSK	1	137	15.38	15.23	15.24	16.8	0.0	
100	PI2 BPSK	1	271	15.24	15.21	15.38			
100	PI2 BPSK	135	0	15.37	15.22	15.34	16.8	0.0	
100	PI2 BPSK	135	69	15.21	15.34	15.39	16.8	0.0	
100	PI2 BPSK	135	138	15.22	15.39	15.27	16.8	0.0	
100	PI2 BPSK	270	0	15.27	15.28	15.37			
100	QPSK	1	1	15.38	15.41	15.40			
100	QPSK	1	137	15.23	15.32	15.37	16.8	0.0	
100	QPSK	1	271	15.21	15.21	15.19			
100	QPSK	135	0	15.16	15.24	15.30	16.8	0.0	
100	QPSK	135	69	15.29	15.40	15.37	16.8	0.0	
100	QPSK	135	138	15.29	15.29	15.30	16.8	0.0	
100	QPSK	270	0	15.28	15.37	15.25			
100	16QAM	1	1	15.37	15.38	15.24	16.8	0.0	
100	16QAM	1	1	15.19	15.28	15.22	16.8	0.0	
100	256QAM	1	1	15.14	15.31	15.19	16.8	0.0	
Channel				649683	650000	649334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.28	15.33	15.24	16.8	0.0	
Channel				649334	650000	649683	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.30	15.29	15.25	16.9	0.0	
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.35	15.25	15.36	16.8	0.0	
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.38	15.33	15.25	16.8	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.32	15.30	15.27	16.8	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	15.15	15.34	15.22	16.8	0.0	
Channel				647688	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3925.01			
30	QPSK	1	1	15.36	15.29	15.20	16.9	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.25	15.22	15.22	16.8	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.19	15.36	15.21	16.9	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.17	15.20	15.25	16.8	0.0	

Part270 n77 PC2 Main PA Ant5 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.28	18.29	18.11			
100	PI2 BPSK	1	137	18.10	18.25	18.07	19.8	0.0	
100	PI2 BPSK	1	271	18.13	18.18	18.26			
100	PI2 BPSK	135	0	18.10	18.22	18.13	19.8	0.0	
100	PI2 BPSK	135	69	18.08	18.12	18.31	19.8	0.0	
100	PI2 BPSK	135	138	18.11	18.23	18.15	19.8	0.0	
100	PI2 BPSK	270	0	18.31	18.20	18.10			
100	QPSK	1	1	18.30	18.33	18.29			
100	QPSK	1	137	18.10	18.29	18.17	19.8	0.0	
100	QPSK	1	271	18.26	18.16	18.10			
100	QPSK	135	0	18.23	18.25	18.08	19.8	0.0	
100	QPSK	135	69	18.28	18.30	18.23	19.8	0.0	
100	QPSK	135	138	18.09	18.26	18.14	19.8	0.0	
100	QPSK	270	0	18.24	18.25	18.20			
100	16QAM	1	1	18.15	18.30	18.08	19.8	0.0	
100	16QAM	1	1	18.13	18.18	18.10	19.8	0.0	
100	256QAM	1	1	18.18	18.14	18.24	19.8	0.0	
Channel				649683	650000	648334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.14	18.18	18.14	19.8	0.0	
Channel				649334	650000	649683	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.16	18.12	18.15	19.8	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.18	18.19	18.24	19.8	0.0	
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.28	18.14	18.24	19.8	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.16	18.19	18.12	19.8	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	18.09	18.25	18.07	19.8	0.0	
Channel				647688	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3925.01			
30	QPSK	1	1	18.32	18.25	18.22	19.8	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.19	18.19	18.20	19.8	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.27	18.23	18.13	19.8	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.28	18.18	18.14	19.8	0.0	



Part270 n78 Main PA Ant5 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pi/2 BPSK	1	1	15.22					
100	Pi/2 BPSK	1	137	15.37			16.8	0.0	
100	Pi/2 BPSK	1	271	15.29					
100	Pi/2 BPSK	135	0	15.30			16.8	0.0	
100	Pi/2 BPSK	135	69	15.32			16.8	0.0	
100	Pi/2 BPSK	135	138	15.21			16.8	0.0	
100	Pi/2 BPSK	270	0	15.29					
100	QPSK	1	1	15.38					
100	QPSK	1	137	15.28			16.8	0.0	
100	QPSK	1	271	15.32					
100	QPSK	135	0	15.28			16.8	0.0	
100	QPSK	135	69	15.32			16.8	0.0	
100	QPSK	135	138	15.29					
100	QPSK	270	0	15.25			16.8	0.0	
100	16QAM	1	1	15.36			16.8	0.0	
100	64QAM	1	1	15.36			16.8	0.0	
100	256QAM	1	1	15.19			16.8	0.0	
Channel				64968	65000	65034	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)		
90	QPSK	1	1	15.33	15.19	15.14	16.8	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		
80	QPSK	1	1	15.30	15.30	15.29	16.8	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)		
70	QPSK	1	1	15.24	15.16	15.15	16.8	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)		
60	QPSK	1	1	15.28	15.28	15.19	16.8	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		
50	QPSK	1	1	15.35	15.31	15.23	16.8	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)		
40	QPSK	1	1	15.19	15.14	15.32	16.8	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3765.01	(dBm)		
30	QPSK	1	1	15.25	15.30	15.16	16.8	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)		
20	QPSK	1	1	15.18	15.37	15.21	16.8	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3793.51	(dBm)		
15	QPSK	1	1	15.21	15.20	15.27	16.8	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)		
10	QPSK	1	1	15.20	15.31	15.23	16.8	0.0	

Part270 n78 PC2 Main PA Ant5 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pi/2 BPSK	1	1	18.11					
100	Pi/2 BPSK	1	137	18.09			19.8	0.0	
100	Pi/2 BPSK	1	271	18.19					
100	Pi/2 BPSK	135	0	18.15			19.8	0.0	
100	Pi/2 BPSK	135	69	18.27			19.8	0.0	
100	Pi/2 BPSK	135	138	18.21			19.8	0.0	
100	Pi/2 BPSK	270	0	18.29					
100	QPSK	1	1	18.30					
100	QPSK	1	137	18.16			19.8	0.0	
100	QPSK	1	271	18.16					
100	QPSK	135	0	18.13			19.8	0.0	
100	QPSK	135	69	18.28			19.8	0.0	
100	QPSK	135	138	18.28					
100	QPSK	270	0	18.14			19.8	0.0	
100	16QAM	1	1	18.10			19.8	0.0	
100	64QAM	1	1	18.11			19.8	0.0	
100	256QAM	1	1	18.21			19.8	0.0	
Channel				64968	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)		
90	QPSK	1	1	17.91	17.94	17.96	19.8	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)		
80	QPSK	1	1	18.12	17.86	17.24	19.8	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)		
70	QPSK	1	1	18.05	17.90	17.91	19.8	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)		
60	QPSK	1	1	18.05	18.00	18.07	19.8	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)		
50	QPSK	1	1	18.03	18.11	18.09	19.8	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)		
40	QPSK	1	1	18.06	18.06	18.09	19.8	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3765.01	(dBm)		
30	QPSK	1	1	18.07	17.89	18.05	19.8	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)		
20	QPSK	1	1	17.91	18.09	18.04	19.8	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3793.51	(dBm)		
15	QPSK	1	1	17.95	17.93	17.99	19.8	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)		
10	QPSK	1	1	18.11	18.03	18.05	19.8	0.0	



Reduced Power Mode for Main PA N77&8 DSI3 Simultaneous

Part270 n77 Main PA Ant1 DSI3 Simultaneous							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				65000	65000	65000	
Frequency (MHz)				375	380	380	
100	PI2 BPSK	1	1	20.14	20.18	20.28	
100	PI2 BPSK	1	137	20.04	20.24	20.19	22.0
100	PI2 BPSK	1	271	20.13	20.30	20.25	
100	PI2 BPSK	135	0	20.04	20.15	20.21	22.0
100	PI2 BPSK	135	69	20.11	20.23	20.26	22.0
100	PI2 BPSK	135	138	20.11	20.29	20.22	22.0
100	PI2 BPSK	270	0	20.03	20.13	20.21	
100	QPSK	1	1	20.22	20.32	20.06	
100	QPSK	1	137	20.02	20.13	20.11	22.0
100	QPSK	1	271	20.09	20.19	20.08	
100	QPSK	135	0	20.08	20.17	20.19	22.0
100	QPSK	135	69	20.09	20.30	20.11	22.0
100	QPSK	135	138	20.06	20.20	20.22	22.0
100	QPSK	270	0	20.02	20.29	20.02	
100	16QAM	1	1	20.13	20.23	20.06	22.0
100	64QAM	1	1	20.11	20.31	20.16	22.0
100	256QAM	1	1	20.08	20.23	20.09	22.0
Channel				64968	65000	66234	
Frequency (MHz)				3745.02	3840	3955.01	
90	QPSK	1	1	20.09	20.16	20.23	22.0
Channel				64934	65000	66268	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	20.10	20.15	20.18	22.0
Channel				64900	65000	66300	
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	20.05	20.21	20.25	22.0
Channel				64868	65000	66334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	20.07	20.14	20.22	22.0
Channel				64834	65000	66368	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	20.15	20.18	20.22	22.0
Channel				64800	65000	66400	
Frequency (MHz)				3720	3840	3950	
40	QPSK	1	1	20.10	20.20	20.17	22.0
Channel				64768	65000	66434	
Frequency (MHz)				3715.02	3840	3965.01	
30	QPSK	1	1	20.14	20.20	20.11	22.0
Channel				64734	65000	66468	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	20.09	20.27	20.18	22.0
Channel				64700	65000	66484	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	20.07	20.22	20.24	22.0
Channel				64700	65000	66500	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	20.13	20.23	20.31	22.0

Part270 n77 PC2 Main PA Ant1 DSI3 Simultaneous							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				65000	65000	65000	
Frequency (MHz)				375	380	380	
100	PI2 BPSK	1	1	23.43	23.45	23.60	
100	PI2 BPSK	1	137	23.52	23.51	23.45	25.0
100	PI2 BPSK	1	271	23.53	23.56	23.44	
100	PI2 BPSK	135	0	23.56	23.46	23.51	25.0
100	PI2 BPSK	135	69	23.39	23.37	23.47	25.0
100	PI2 BPSK	135	138	23.51	23.61	23.53	25.0
100	PI2 BPSK	270	0	23.54	23.47	23.66	
100	QPSK	1	1	23.43	23.68	23.42	
100	QPSK	1	137	23.54	23.33	23.55	25.0
100	QPSK	1	271	23.41	23.44	23.11	
100	QPSK	135	0	23.35	23.40	23.12	25.0
100	QPSK	135	69	23.51	23.68	23.25	25.0
100	QPSK	135	138	23.36	23.43	23.14	25.0
100	QPSK	270	0	23.42	23.43	23.07	
100	16QAM	1	1	23.44	23.46	23.15	25.0
100	64QAM	1	1	21.86	21.88	21.88	23.5
100	256QAM	1	1	20.00	20.08	19.88	21.5
Channel				64968	65000	66234	
Frequency (MHz)				3745.02	3840	3955.01	
90	QPSK	1	1	23.55	23.39	23.55	25.0
Channel				64934	65000	66268	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	23.38	23.51	23.43	25.0
Channel				64900	65000	66300	
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	23.55	23.43	23.53	25.0
Channel				64868	65000	66334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	23.47	23.33	23.47	25.0
Channel				64834	65000	66368	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	23.49	23.43	23.65	25.0
Channel				64800	65000	66400	
Frequency (MHz)				3720	3840	3950	
40	QPSK	1	1	23.56	23.44	23.45	25.0
Channel				64768	65000	66434	
Frequency (MHz)				3715.02	3840	3965.01	
30	QPSK	1	1	23.50	23.34	23.66	25.0
Channel				64734	65000	66468	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	23.57	23.40	23.61	25.0
Channel				64700	65000	66484	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	23.46	23.40	23.50	25.0
Channel				64700	65000	66500	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	23.46	23.39	23.64	25.0



Part270 n78 Main PA Ant1 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		20.64				
100	PI2 BPSK	1	137		20.63				
100	PI2 BPSK	1	271		20.71		22.0	0.0	
100	PI2 BPSK	135	0		20.69		22.0	0.0	
100	PI2 BPSK	135	69		20.73		22.0	0.0	
100	PI2 BPSK	135	138		20.66		22.0	0.0	
100	PI2 BPSK	270	0		20.61		22.0	0.0	
100	QPSK	1	1		20.76				
100	QPSK	1	137		20.74		22.0	0.0	
100	QPSK	1	271		20.58		22.0	0.0	
100	QPSK	135	0		20.85		22.0	0.0	
100	QPSK	135	69		20.75		22.0	0.0	
100	QPSK	135	138		20.66		22.0	0.0	
100	QPSK	270	0		20.74		22.0	0.0	
100	16QAM	1	1		20.75		22.0	0.0	
100	64QAM	1	1		19.23		20.5	1.5	
100	256QAM	1	1		17.35		18.5	3.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.68	20.61	20.59	22.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.61	20.68	22.0	0.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.88	20.75	20.74	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		20.70	20.71	20.62	22.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		20.60	20.62	20.59	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.61	20.65	20.70	22.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		20.80	20.54	20.56	22.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.82	20.82	20.56	22.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		20.76	20.66	20.61	22.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.62	20.73	20.64	22.0	0.0

Part270 n78 PC2 Main PA Ant1 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.10				
100	PI2 BPSK	1	137		23.14				
100	PI2 BPSK	1	271		23.17		25.0	0.0	
100	PI2 BPSK	135	0		23.19		25.0	0.0	
100	PI2 BPSK	135	69		23.16		25.0	0.0	
100	PI2 BPSK	135	138		23.15		25.0	0.0	
100	PI2 BPSK	270	0		23.04		25.0	0.0	
100	QPSK	1	1		23.23				
100	QPSK	1	137		23.08		25.0	0.0	
100	QPSK	1	271		23.14		25.0	0.0	
100	QPSK	135	0		23.11		25.0	0.0	
100	QPSK	135	69		23.18		25.0	0.0	
100	QPSK	135	138		23.01		25.0	0.0	
100	QPSK	270	0		23.13		25.0	0.0	
100	16QAM	1	1		23.10		25.0	0.0	
100	64QAM	1	1		21.67		23.5	1.5	
100	256QAM	1	1		19.59		21.5	3.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.15	23.10	23.11	25.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		23.04	23.09	23.16	25.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		23.02	23.05	23.13	25.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		23.11	23.17	23.05	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.13	23.20	23.07	25.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.16	23.11	23.10	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		23.18	23.20	23.14	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.22	23.05	23.21	25.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		23.02	23.07	23.21	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		23.06	23.10	23.10	25.0	0.0





**Part270 n7**

BW (MHz)	Modulation	RB Size	RB Offset
Channel			
Frequency (MHz)			
100	PI2 BPSK	1	1
100	PI2 BPSK	1	137
100	PI2 BPSK	1	271
100	PI2 BPSK	135	0
100	PI2 BPSK	135	69
100	PI2 BPSK	135	138
100	PI2 BPSK	270	0
100	QPSK	1	1
100	QPSK	1	137
100	QPSK	1	271
100	QPSK	135	0
100	QPSK	135	69
100	QPSK	135	138
100	QPSK	270	0
100	16QAM	1	1
100	64QAM	1	1
100	256QAM	1	1
Channel			
Frequency (MHz)			
90	QPSK	1	1
Channel			
Frequency (MHz)			
80	QPSK	1	1
Channel			
Frequency (MHz)			
70	QPSK	1	1
Channel			
Frequency (MHz)			
60	QPSK	1	1
Channel			
Frequency (MHz)			
50	QPSK	1	1
Channel			
Frequency (MHz)			
40	QPSK	1	1
Channel			
Frequency (MHz)			
30	QPSK	1	1
Channel			
Frequency (MHz)			
20	QPSK	1	1
Channel			
Frequency (MHz)			
15	QPSK	1	1
Channel			
Frequency (MHz)			
10	QPSK	1	1



### 77 Main PA Ant2

Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
65000	65000	65000		
3750	3840	3930		
21.42	21.53	21.43		
21.56	21.59	21.39	23.0	0.0
21.46	21.54	21.41		
21.40	21.55	21.34	23.0	0.0
21.42	21.59	21.66	23.0	0.0
21.45	21.61	21.43	23.0	0.0
21.43	21.57	21.58		
21.52	21.64	21.41		
21.30	21.51	21.37	23.0	0.0
21.47	21.57	21.48		
21.38	21.53	21.39	23.0	0.0
21.49	21.56	21.37	23.0	0.0
21.36	21.55	21.37	23.0	0.0
21.45	21.53	21.35	23.0	0.0
21.53	21.52	21.49	23.0	0.0
21.30	21.52	21.35	23.0	0.0
20.67	20.71	20.54	22.0	1.0
648668	650000	662988	Tune-up limit (dBm)	MPR (dB)
3745.02	3840	3935.01		
21.50	21.40	21.41	23.0	0.0
649334	656000	662968	Tune-up limit (dBm)	MPR (dB)
3740.01	3840	3940.02		
21.57	21.30	21.41	23.0	0.0
649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
3735	3840	3945		
21.48	21.48	21.41	23.0	0.0
648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
3730.02	3840	3950.01		
21.49	21.48	21.40	23.0	0.0
648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
3725.01	3840	3955.02		
21.45	21.32	21.33	23.0	0.0
648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
3720	3840	3960		
21.47	21.35	21.38	23.0	0.0
647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
3713.02	3840	3965.01		
21.43	21.41	21.45	23.0	0.0
647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
3710.01	3840	3970.02		
21.50	21.34	21.51	23.0	0.0
647168	656000	664934	Tune-up limit (dBm)	MPR (dB)
3707.50	3840	3975.51		
21.45	21.43	21.47	23.0	0.0
647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
3705	3840	3975		
21.42	21.37	21.45	23.0	0.0

### Part270 n77 PC2 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	24.18	24.21	24.01		
100	PI2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0
100	PI2 BPSK	1	271	24.27	24.30	24.23		
100	PI2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0
100	PI2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0
100	PI2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0
100	PI2 BPSK	270	0	24.13	24.17	24.12		
100	QPSK	1	1	24.31	24.40	24.23		
100	QPSK	1	137	24.13	24.24	24.21	25.0	0.0
100	QPSK	1	271	24.24	24.23	24.04		
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0
100	QPSK	135	138	24.06	24.22	24.13	25.0	0.0
100	QPSK	270	0	24.11	24.14	24.10		
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0
100	16QAM	1	1	22.25	22.27	22.27	22.5	2.5
100	256QAM	1	1	20.20	20.23	20.20	20.5	4.5
Channel								
Frequency (MHz)				648668	650000	662934	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0
Channel								
Frequency (MHz)				649334	656000	662968	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.24	24.11	23.82	25.0	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.14	24.04	23.84	25.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0
Channel								
Frequency (MHz)				647168	656000	664934	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0



Part270 n78 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	Pl/2 BPSK	1	1	22.81	22.81	24.44			
100	Pl/2 BPSK	1	137	22.53	22.53	24.44	23.0	0.0	
100	Pl/2 BPSK	1	271	22.86	22.86	24.21			
100	Pl/2 BPSK	135	0	22.13	22.13	24.16	25.0	0.5	
100	Pl/2 BPSK	135	69	22.51	22.51	24.47	25.0	0.0	
100	Pl/2 BPSK	135	138	22.05	22.05	24.02	24.5	0.5	
100	Pl/2 BPSK	270	0	22.67	22.67	24.01			
100	QPSK	1	1	22.82	22.82	24.48			
100	QPSK	1	137	22.49	22.49	24.40	25.0	0.0	
100	QPSK	1	271	22.42	22.42	24.16			
100	QPSK	135	0	21.59	21.59	23.71	24.0	1.0	
100	QPSK	135	69	22.38	22.38	24.43	25.0	0.0	
100	QPSK	135	138	21.47	21.47	23.49	24.0	1.0	
100	QPSK	270	0	21.51	21.51	23.01			
100	16QAM	1	1	21.14	21.14	23.26	24.0	1.0	
100	64QAM	1	1	19.88	19.88	21.24	22.5	2.5	
100	256QAM	1	1	18.44	18.44	20.28	20.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.45	22.52	22.48	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.33	22.44	22.52	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.56	22.47	22.39	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	22.42	22.49	22.57	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.57	22.53	22.42	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.50	22.56	22.57	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.51	22.42	22.57	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.43	22.56	22.38	23.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.53			
15	QPSK	1	1	22.54	22.55	22.45	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.53	22.57	22.55	23.0	0.0	

Part270 n78 PC2 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	Pl/2 BPSK	1	1	24.44	24.44	24.44			
100	Pl/2 BPSK	1	137	24.44	24.44	24.44	25.0	0.0	
100	Pl/2 BPSK	1	271	24.21	24.21	24.21			
100	Pl/2 BPSK	135	0	24.16	24.16	24.16	24.5	0.5	
100	Pl/2 BPSK	135	69	24.47	24.47	24.47	25.0	0.0	
100	Pl/2 BPSK	135	138	24.02	24.02	24.02	24.5	0.5	
100	Pl/2 BPSK	270	0	24.01	24.01	24.01			
100	QPSK	1	1	24.48	24.48	24.48			
100	QPSK	1	137	24.40	24.40	24.40	25.0	0.0	
100	QPSK	1	271	24.16	24.16	24.16			
100	QPSK	135	0	23.71	23.71	23.71	24.0	1.0	
100	QPSK	135	69	24.43	24.43	24.43	25.0	0.0	
100	QPSK	135	138	23.49	23.49	23.49	24.0	1.0	
100	QPSK	270	0	23.01	23.01	23.01			
100	16QAM	1	1	23.26	23.26	23.26	24.0	1.0	
100	64QAM	1	1	21.24	21.24	21.24	22.5	2.5	
100	256QAM	1	1	20.28	20.28	20.28	20.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	24.41	24.36	24.40	25.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	24.35	24.42	24.24	25.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	24.34	24.23	24.32	25.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	24.44	24.46	24.42	25.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	24.33	24.27	24.42	25.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	24.43	24.34	24.34	25.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	24.27	24.29	24.33	25.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	24.40	24.24	24.46	25.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.53			
15	QPSK	1	1	24.40	24.40	24.44	25.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	24.42	24.29	24.30	25.0	0.0	



Part270 n77 Main PA Ant3 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 655000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	17.05	17.08	17.02			
100	PI2 BPSK	1	137	18.88	16.99	16.87	18.0	0.0	
100	PI2 BPSK	1	271	17.05	17.16	17.01			
100	PI2 BPSK	135	0	18.73	17.19	17.18	18.0	0.0	
100	PI2 BPSK	135	69	18.88	17.05	16.92	18.0	0.0	
100	PI2 BPSK	135	138	18.80	17.31	16.93	18.0	0.0	
100	PI2 BPSK	270	0	18.89	17.21	17.16			
100	QPSK	1	1	18.88	17.28	17.25			
100	QPSK	1	137	18.89	17.28	17.11	18.0	0.0	
100	QPSK	1	271	18.80	17.06	16.94			
100	QPSK	135	0	18.70	17.10	17.05	18.0	0.0	
100	QPSK	135	69	17.10	17.28	17.05	18.0	0.0	
100	QPSK	135	138	18.83	17.02	16.90	18.0	0.0	
100	QPSK	270	0	18.86	17.25	17.19			
100	16QAM	1	1	18.88	17.15	17.09	18.0	0.0	
100	16QAM	1	1	18.76	17.10	17.04	18.0	0.0	
100	256QAM	1	1	18.90	17.02	17.16	18.0	0.0	
Channel				3745.02	3840	3935.01			
Frequency (MHz)									
90	QPSK	1	1	18.88	17.17	16.86	18.0	0.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.80	17.24	16.95	18.0	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.73	17.07	16.85	18.0	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.80	17.23	17.01	18.0	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.73	17.11	16.87	18.0	0.0	
Channel				648000	656000	663000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.71	17.11	16.82	18.0	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.75	17.19	16.81	18.0	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.79	17.25	16.81	18.0	0.0	
Channel				647168	656000	664334			
Frequency (MHz)				3707.52	3840	3972.52			
15	QPSK	1	1	18.83	17.19	16.81	18.0	0.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.76	17.21	16.96	18.0	0.0	

Part270 n77 PC2 Main PA Ant3 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 655000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	19.81	19.79	19.59			
100	PI2 BPSK	1	137	19.81	19.70	19.76	21.0	0.0	
100	PI2 BPSK	1	271	19.58	19.88	19.57			
100	PI2 BPSK	135	0	19.73	19.65	19.51	21.0	0.0	
100	PI2 BPSK	135	69	19.86	19.85	19.67	21.0	0.0	
100	PI2 BPSK	135	138	19.86	19.83	19.79	21.0	0.0	
100	PI2 BPSK	270	0	19.85	19.86	19.70			
100	QPSK	1	1	19.89	19.97	19.73			
100	QPSK	1	137	19.70	19.84	19.57	21.0	0.0	
100	QPSK	1	271	19.79	19.74	19.74			
100	QPSK	135	0	19.59	19.88	19.58	21.0	0.0	
100	QPSK	135	69	19.91	19.98	19.78	21.0	0.0	
100	QPSK	135	138	19.88	19.73	19.76	21.0	0.0	
100	QPSK	270	0	19.83	19.83	19.75			
100	16QAM	1	1	19.81	19.92	19.85	21.0	0.0	
100	16QAM	1	1	19.71	19.79	19.66	21.0	0.0	
100	256QAM	1	1	19.71	19.76	19.70	21.0	0.0	
Channel				649668	656000	665334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.82	19.79	19.51	21.0	0.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.72	19.67	19.68	21.0	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.72	19.72	19.71	21.0	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.89	19.83	19.71	21.0	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.87	19.74	19.69	21.0	0.0	
Channel				648000	656000	663000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.85	19.76	19.50	21.0	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.70	19.67	19.59	21.0	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.81	19.83	19.67	21.0	0.0	
Channel				647168	656000	664334			
Frequency (MHz)				3707.52	3840	3972.52			
15	QPSK	1	1	19.73	19.72	19.56	21.0	0.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.90	19.69	19.57	21.0	0.0	



Part270 n78 Main PA Ant3 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	18.41	18.41	18.41			
100	PI2 BPSK	1	137	18.24	18.24	18.24	18.0	0.0	
100	PI2 BPSK	1	271	18.31	18.31	18.31	18.0	0.0	
100	PI2 BPSK	135	0	18.21	18.21	18.21	18.0	0.0	
100	PI2 BPSK	135	69	18.11	18.11	18.11	18.0	0.0	
100	PI2 BPSK	135	138	18.20	18.20	18.20	18.0	0.0	
100	PI2 BPSK	270	0	18.41	18.41	18.41	18.0	0.0	
100	QPSK	1	1	18.48	18.48	18.48	18.0	0.0	
100	QPSK	1	137	18.45	18.45	18.45	18.0	0.0	
100	QPSK	1	271	18.32	18.32	18.32	18.0	0.0	
100	QPSK	135	0	18.26	18.26	18.26	18.0	0.0	
100	QPSK	135	69	18.31	18.31	18.31	18.0	0.0	
100	QPSK	135	138	18.18	18.18	18.18	18.0	0.0	
100	QPSK	270	0	18.43	18.43	18.43	18.0	0.0	
100	16QAM	1	1	18.28	18.28	18.28	18.0	0.0	
100	64QAM	1	1	18.18	18.18	18.18	18.0	0.0	
100	256QAM	1	1	18.30	18.30	18.30	18.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.34	18.35	18.38	18.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.29	18.37	18.38	18.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.29	18.38	18.24	18.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.33	18.30	18.27	18.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.45	18.45	18.40	18.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.25	18.47	18.34	18.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.41	18.36	18.39	18.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.42	18.29	18.27	18.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.53	3750	3792.51			
15	QPSK	1	1	18.41	18.47	18.39	18.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.47	18.27	18.29	18.0	0.0	

Part270 n78 PC2 Main PA Ant3 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	18.67	18.67	18.67			
100	PI2 BPSK	1	137	18.46	18.46	18.46	21.0	0.0	
100	PI2 BPSK	1	271	18.43	18.43	18.43	21.0	0.0	
100	PI2 BPSK	135	0	18.43	18.43	18.43	21.0	0.0	
100	PI2 BPSK	135	69	18.60	18.60	18.60	21.0	0.0	
100	PI2 BPSK	135	138	18.48	18.48	18.48	21.0	0.0	
100	PI2 BPSK	270	0	18.45	18.45	18.45	21.0	0.0	
100	QPSK	1	1	18.68	18.68	18.68	21.0	0.0	
100	QPSK	1	137	18.58	18.58	18.58	21.0	0.0	
100	QPSK	1	271	18.39	18.39	18.39	21.0	0.0	
100	QPSK	135	0	18.45	18.45	18.45	21.0	0.0	
100	QPSK	135	69	18.62	18.62	18.62	21.0	0.0	
100	QPSK	135	138	18.47	18.47	18.47	21.0	0.0	
100	QPSK	270	0	18.36	18.36	18.36	21.0	0.0	
100	16QAM	1	1	18.39	18.39	18.39	21.0	0.0	
100	64QAM	1	1	18.44	18.44	18.44	21.0	0.0	
100	256QAM	1	1	18.36	18.36	18.36	21.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.50	18.44	18.47	21.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.55	18.54	18.49	21.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.54	18.59	18.48	21.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.56	18.41	18.58	21.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.49	18.44	18.63	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.49	18.63	18.43	21.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	18.41	18.50	18.55	21.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	18.42	18.41	18.48	21.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.53	3750	3792.51			
15	QPSK	1	1	18.50	18.53	18.49	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.45	18.42	18.53	21.0	0.0	



Part270 n77 Main PA Ant5 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	21.16	21.44	21.59			
100	PI2 BPSK	1	137	21.32	21.49	21.40	22.7	0.0	
100	PI2 BPSK	1	271	21.31	21.35	21.56			
100	PI2 BPSK	135	0	21.09	21.50	21.42	22.7	0.0	
100	PI2 BPSK	135	69	21.23	21.66	21.38	22.7	0.0	
100	PI2 BPSK	135	138	21.11	21.38	21.40	22.7	0.0	
100	PI2 BPSK	270	0	21.26	21.66	21.49			
100	QPSK	1	1	21.48	21.76	21.57			
100	QPSK	1	137	21.44	21.69	21.45	22.7	0.0	
100	QPSK	1	271	21.18	21.60	21.33			
100	QPSK	135	0	21.26	21.41	21.50	22.7	0.0	
100	QPSK	135	69	21.46	21.71	21.52	22.7	0.0	
100	QPSK	135	138	21.45	21.62	21.62	22.7	0.0	
100	QPSK	270	0	21.48	21.67	21.57			
100	16QAM	1	1	21.29	21.46	21.61	22.7	0.0	
100	16QAM	1	1	21.27	21.49	21.39	22.7	0.0	
100	256QAM	1	1	21.16	21.54	21.69	22.7	0.0	
Channel				648968	656000	662688			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.28	21.47	21.32	22.7	0.0	
Channel				649334	656000	662688			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.31	21.64	21.48	22.7	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.22	21.52	21.35	22.7	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.23	21.58	21.49	22.7	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.30	21.49	21.32	22.7	0.0	
Channel				648000	656000	663000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.28	21.55	21.32	22.7	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.23	21.65	21.29	22.7	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.20	21.80	21.35	22.7	0.0	
Channel				647168	656000	664834			
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	21.32	21.64	21.33	22.7	0.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.19	21.64	21.48	22.7	0.0	

Part270 n77 PC2 Main PA Ant5 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	24.26	24.41	24.34			
100	PI2 BPSK	1	137	24.29	24.41	24.26	25.7	0.0	
100	PI2 BPSK	1	271	24.28	24.45	24.36			
100	PI2 BPSK	135	0	24.26	24.57	24.35	25.7	0.0	
100	PI2 BPSK	135	69	24.29	24.38	24.13	25.7	0.0	
100	PI2 BPSK	135	138	24.13	24.35	24.16	25.7	0.0	
100	PI2 BPSK	270	0	24.19	24.60	24.38			
100	QPSK	1	1	24.38	24.64	24.39			
100	QPSK	1	137	24.46	24.52	24.16	25.7	0.0	
100	QPSK	1	271	24.22	24.31	24.16			
100	QPSK	135	0	24.27	24.37	24.17	25.7	0.0	
100	QPSK	135	69	24.27	24.58	24.26	25.7	0.0	
100	QPSK	135	138	24.33	24.46	24.24	25.7	0.0	
100	QPSK	270	0	24.11	24.55	24.30			
100	16QAM	1	1	24.35	24.28	24.28	25.7	0.0	
100	16QAM	1	1	24.45	24.41	24.19	25.7	0.0	
100	256QAM	1	1	21.45	21.56	21.48	22.7	0.0	
Channel				648968	656000	662688			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.31	24.58	24.35	25.7	0.0	
Channel				649334	656000	662688			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.15	24.43	24.25	25.7	0.0	
Channel				649000	656000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.13	24.48	24.23	25.7	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.31	24.62	24.40	25.7	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.30	24.59	24.33	25.7	0.0	
Channel				648000	656000	663000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.28	24.54	24.34	25.7	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	24.15	24.49	24.21	25.7	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.24	24.46	24.31	25.7	0.0	
Channel				647168	656000	664834			
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	24.24	24.58	24.29	25.7	0.0	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.16	24.61	24.21	25.7	0.0	



Part270 n78 Main PA Ant5 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		21.37				
100	PI2 BPSK	1	137		21.52				0.0
100	PI2 BPSK	1	271		21.51				
100	PI2 BPSK	135	0		21.52		22.7	0.0	
100	PI2 BPSK	135	69		21.48		22.7	0.0	
100	PI2 BPSK	135	138		21.60		22.7	0.0	
100	PI2 BPSK	270	0		21.60				
100	QPSK	1	1		21.65				
100	QPSK	1	137		21.47		22.7	0.0	
100	QPSK	1	271		21.51				
100	QPSK	135	0		21.47		22.7	0.0	
100	QPSK	135	69		21.64		22.7	0.0	
100	QPSK	135	138		21.60		22.7	0.0	
100	QPSK	270	0		21.55				
100	16QAM	1	1		21.82		22.7	0.0	
100	64QAM	1	1		21.04		22.7	0.0	
100	256QAM	1	1		20.51		22.2	0.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		21.47	21.45	21.47	22.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		21.50	21.63	21.60	22.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.83	21.45	21.44	22.7	0.0
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3730.01			
60	QPSK	1	1		21.82	21.60	21.50	22.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1		21.54	21.46	21.45	22.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.57	21.56	21.42	22.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	0		21.54	21.48	21.63	22.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		21.51	21.44	21.50	22.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	1		21.47	21.60	21.60	22.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		21.47	21.62	21.42	22.7	0.0

Part270 n78 PC2 Main PA Ant5 DSI3 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		24.36				
100	PI2 BPSK	1	137		24.49				25.7
100	PI2 BPSK	1	271		24.48				
100	PI2 BPSK	135	0		24.46		25.7	0.0	
100	PI2 BPSK	135	69		24.38		25.7	0.0	
100	PI2 BPSK	135	138		24.59		25.7	0.0	
100	PI2 BPSK	270	0		24.59				
100	QPSK	1	1		24.60				
100	QPSK	1	137		24.53				25.7
100	QPSK	1	271		24.44				
100	QPSK	135	0		24.34		25.7	0.0	
100	QPSK	135	69		24.52		25.7	0.0	
100	QPSK	135	138		24.42		25.7	0.0	
100	QPSK	270	0		24.46				
100	16QAM	1	1		24.34		25.7	0.0	
100	64QAM	1	1		24.23		25.7	0.0	
100	256QAM	1	1		23.71		24.2	1.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		24.47	24.42	24.45	25.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		24.40	24.43	24.43	25.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		24.47	24.37	24.55	25.7	0.0
Channel				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3730.01			
60	QPSK	1	1		24.48	24.54	24.41	25.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1		24.53	24.53	24.57	25.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		24.48	24.54	24.39	25.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		24.51	24.40	24.59	25.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		24.59	24.45	24.51	25.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	1		24.50	24.45	24.54	25.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		24.59	24.38	24.41	25.7	0.0



Reduced Power Mode for Main PA n77&78 DSI3

Part270 n77 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				65000	65000	65000			
100	PI/2 BPSK	1	1	21.09	21.35	21.24	23.0	0.0	
100	PI/2 BPSK	1	137	21.09	21.29	21.24	23.0	0.0	
100	PI/2 BPSK	1	271	21.06	21.11	21.05	23.0	0.0	
100	PI/2 BPSK	135	0	21.21	21.28	21.05	23.0	0.0	
100	PI/2 BPSK	135	69	21.05	21.17	21.14	23.0	0.0	
100	PI/2 BPSK	135	138	21.04	21.13	21.05	23.0	0.0	
100	PI/2 BPSK	270	0	21.01	21.14	21.05	23.0	0.0	
100	QPSK	1	1	21.28	21.35	21.18	23.0	0.0	
100	QPSK	1	137	21.10	21.14	21.03	23.0	0.0	
100	QPSK	1	271	21.01	21.01	21.01	23.0	0.0	
100	QPSK	135	0	21.05	21.08	21.03	23.0	0.0	
100	QPSK	135	69	21.12	21.25	21.02	23.0	0.0	
100	QPSK	135	138	21.03	21.10	21.01	23.0	0.0	
100	QPSK	270	0	21.13	21.24	21.15	23.0	0.0	
100	16QAM	1	1	21.14	21.19	21.05	23.0	0.0	
100	64QAM	1	1	21.23	21.35	21.30	23.0	0.0	
100	256QAM	1	1	20.35	20.42	20.28	22.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3840	3935.01	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3749.01	3840	3940.02	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.23	21.26	21.05	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.08	21.18	21.10	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.17	21.28	21.03	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.24	21.25	21.02	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.04	21.20	21.01	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.14	21.23	21.14	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.20	21.11	21.15	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.02	21.20	21.07	23.0	0.0	

Part270 n77 PC2 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				65000	65000	65000			
100	PI/2 BPSK	1	1	23.57	23.77	23.39	25.0	0.0	
100	PI/2 BPSK	1	137	23.49	23.66	23.31	25.0	0.0	
100	PI/2 BPSK	1	271	23.57	23.69	23.30	25.0	0.0	
100	PI/2 BPSK	135	0	23.50	23.71	23.19	24.5	0.5	
100	PI/2 BPSK	135	69	23.64	23.62	23.24	24.5	0.0	
100	PI/2 BPSK	135	138	23.47	23.56	23.08	24.5	0.5	
100	PI/2 BPSK	270	0	23.40	23.57	23.11	25.0	0.0	
100	QPSK	1	1	24.08	24.16	23.75	25.0	0.0	
100	QPSK	1	137	23.53	23.64	23.18	25.0	0.0	
100	QPSK	1	271	23.48	23.66	23.38	25.0	1.0	
100	QPSK	135	0	23.46	23.59	23.08	24.0	1.0	
100	QPSK	135	69	24.08	24.15	23.77	25.0	0.0	
100	QPSK	135	138	23.41	23.48	22.97	24.0	1.0	
100	QPSK	270	0	23.46	23.66	23.29	25.0	0.0	
100	16QAM	1	1	23.38	23.48	23.01	24.0	1.0	
100	64QAM	1	1	21.81	21.75	21.40	22.5	2.5	
100	256QAM	1	1	20.10	20.10	19.64	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3840	3935.01	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3749.01	3840	3940.02	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.94	24.08	23.87	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.88	24.11	23.78	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.03	24.12	23.88	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.02	24.13	23.84	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.97	23.96	23.82	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.08	24.01	23.82	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.67	24.00	23.77	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.90	24.14	23.75	25.0	0.0	





Part270 n78 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3750	3750	3750			
100	PI/2 BPSK	1	137	21.85	21.87	21.85	23.0	0.0	
100	PI/2 BPSK	1	271	21.85	21.87	21.85	23.0	0.0	
100	PI/2 BPSK	135	0	21.64	21.64	21.64	22.5	0.5	
100	PI/2 BPSK	135	69	21.86	21.86	21.86	23.0	0.0	
100	PI/2 BPSK	135	138	21.53	21.53	21.53	22.5	0.5	
100	PI/2 BPSK	270	0	21.87	21.87	21.87	23.0	0.0	
100	QPSK	1	1	21.70	21.70	21.70	23.0	0.0	
100	QPSK	1	137	21.58	21.58	21.58	22.0	1.0	
100	QPSK	1	271	21.58	21.58	21.58	22.0	1.0	
100	QPSK	135	0	21.48	21.48	21.48	22.0	1.0	
100	QPSK	135	69	21.86	21.86	21.86	23.0	0.0	
100	QPSK	135	138	21.59	21.59	21.59	22.0	1.0	
100	QPSK	270	0	21.37	21.37	21.37	22.0	1.0	
100	16QAM	1	1	20.21	20.21	20.21	20.5	2.5	
100	64QAM	1	1	19.28	19.28	19.28	20.5	2.5	
100	256QAM	1	1	17.41	17.41	17.41	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3730.02	3750	3770.01	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3725.01	3750	3755.02	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3720.01	3750	3750.02	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3715.02	3750	3765.01	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3710.01	3750	3760.02	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3705.01	3750	3750.02	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3700.01	3750	3750.02	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3700.01	3750	3750.02	23.0	0.0	

Part270 n78 PC2 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3750	3750	3750			
100	PI/2 BPSK	1	137	24.14	24.12	24.14	25.0	0.0	
100	PI/2 BPSK	1	271	24.02	24.02	24.02	24.5	0.5	
100	PI/2 BPSK	135	0	23.67	23.67	23.67	25.0	0.0	
100	PI/2 BPSK	135	69	24.09	24.09	24.09	24.5	0.5	
100	PI/2 BPSK	135	138	24.01	24.01	24.01	24.5	0.5	
100	PI/2 BPSK	270	0	23.86	23.86	23.86	25.0	0.0	
100	QPSK	1	1	24.15	24.15	24.15	25.0	0.0	
100	QPSK	1	137	23.93	23.93	23.93	24.0	1.0	
100	QPSK	1	271	23.97	23.97	23.97	24.0	1.0	
100	QPSK	135	0	23.62	23.62	23.62	24.0	1.0	
100	QPSK	135	69	23.98	23.98	23.98	24.0	1.0	
100	QPSK	135	138	23.28	23.28	23.28	24.0	1.0	
100	QPSK	270	0	23.51	23.51	23.51	24.0	1.0	
100	16QAM	1	1	22.84	22.84	22.84	22.5	2.5	
100	64QAM	1	1	20.88	20.88	20.88	22.5	2.5	
100	256QAM	1	1	19.87	19.87	19.87	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3765.01	24.07	25.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3730.02	3750	3770.01	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3725.01	3750	3755.02	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3720.01	3750	3750.02	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3715.02	3750	3765.01	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3710.01	3750	3760.02	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3705.01	3750	3750.02	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3700.01	3750	3750.02	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3700.01	3750	3750.02	25.0	0.0	



### Part270 n77 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.42	21.53	21.43		
100	PI2 BPSK	1	137	21.56	21.59	21.39	23.0	0.0
100	PI2 BPSK	1	271	21.46	21.54	21.41		
100	PI2 BPSK	135	0	21.40	21.35	21.34	23.0	0.0
100	PI2 BPSK	135	69	21.42	21.59	21.56	23.0	0.0
100	PI2 BPSK	135	138	21.45	21.61	21.43	23.0	0.0
100	PI2 BPSK	270	0	21.43	21.57	21.58		
100	QPSK	1	1	21.52	21.54	21.41		
100	QPSK	1	137	21.30	21.51	21.37	23.0	0.0
100	QPSK	1	271	21.47	21.57	21.48		
100	QPSK	135	0	21.38	21.53	21.39	23.0	0.0
100	QPSK	135	69	21.49	21.56	21.37	23.0	0.0
100	QPSK	135	138	21.36	21.55	21.37	23.0	0.0
100	QPSK	270	0	21.45	21.53	21.35		
100	16QAM	1	1	21.53	21.52	21.49	23.0	0.0
100	16QAM	1	1	21.30	21.52	21.35	23.0	0.0
100	256QAM	1	1	20.67	20.71	20.54	22.0	1.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.50	21.40	21.41	23.0	0.0
Channel								
Frequency (MHz)				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.27	21.39	21.41	23.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.48	21.46	21.41	23.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.49	21.48	21.40	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.45	21.32	21.33	23.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
40	QPSK	1	1	21.47	21.35	21.38	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.43	21.41	21.45	23.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.50	21.34	21.51	23.0	0.0
Channel								
Frequency (MHz)				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.45	21.43	21.47	23.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.42	21.37	21.45	23.0	0.0

### Part270 n77 PC2 Main PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	24.18	24.21	24.01		
100	PI2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0
100	PI2 BPSK	1	271	24.27	24.30	24.23		
100	PI2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0
100	PI2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0
100	PI2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0
100	PI2 BPSK	270	0	24.13	24.17	24.12		
100	QPSK	1	1	24.31	24.40	24.23		
100	QPSK	1	137	24.33	24.24	24.21	25.0	0.0
100	QPSK	1	271	24.24	24.23	24.04		
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0
100	QPSK	135	138	24.06	24.22	24.13	25.0	0.0
100	QPSK	270	0	24.11	24.14	24.10		
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0
100	16QAM	1	1	22.25	22.27	22.27	22.5	2.5
100	256QAM	1	1	20.20	20.23	20.20	20.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0
Channel								
Frequency (MHz)				649334	650000	662698	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.24	24.11	23.92	25.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3955.02		
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.14	24.04	23.84	25.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0
Channel								
Frequency (MHz)				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0



Part270 n78 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	22.81					
100	PI/2 BPSK	1	137	22.53			23.0	0.0	
100	PI/2 BPSK	1	271	22.86					
100	PI/2 BPSK	135	0	22.13			22.5	0.5	
100	PI/2 BPSK	135	69	22.51			23.0	0.0	
100	PI/2 BPSK	135	138	22.05			22.5	0.5	
100	PI/2 BPSK	270	0	22.67					
100	QPSK	1	1	22.82					
100	QPSK	1	137	22.49			23.0	0.0	
100	QPSK	1	271	22.42					
100	QPSK	135	0	21.59			22.0	1.0	
100	QPSK	135	69	22.38			23.0	0.0	
100	QPSK	135	138	21.47			22.0	1.0	
100	QPSK	270	0	21.51					
100	16QAM	1	1	21.14			22.0	1.0	
100	64QAM	1	1	19.88			20.5	2.5	
100	256QAM	1	1	18.44			18.5	4.5	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	23.0	0.0	
90	QPSK	1	1	22.45	22.52	22.48	23.0	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	23.0	0.0	
80	QPSK	1	1	22.33	22.44	22.52	23.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	23.0	0.0	
70	QPSK	1	1	22.55	22.47	22.39	23.0	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	23.0	0.0	
60	QPSK	1	1	22.42	22.49	22.57	23.0	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	23.0	0.0	
50	QPSK	1	1	22.57	22.53	22.42	23.0	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	23.0	0.0	
40	QPSK	1	1	22.50	22.56	22.57	23.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01	23.0	0.0	
30	QPSK	1	1	22.51	22.42	22.57	23.0	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	23.0	0.0	
20	QPSK	1	1	22.43	22.58	22.38	23.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	23.0	0.0	
15	QPSK	1	1	22.54	22.55	22.45	23.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	23.0	0.0	
10	QPSK	1	1	22.53	22.57	22.55	23.0	0.0	

Part270 n78 PC2 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	24.4					
100	PI/2 BPSK	1	137	24.4			25.0	0.0	
100	PI/2 BPSK	1	271	24.21					
100	PI/2 BPSK	135	0	24.16			24.5	0.5	
100	PI/2 BPSK	135	69	24.47			25.0	0.0	
100	PI/2 BPSK	135	138	24.02			24.5	0.5	
100	PI/2 BPSK	270	0	24.01					
100	QPSK	1	1	24.48					
100	QPSK	1	137	24.40			25.0	0.0	
100	QPSK	1	271	24.16					
100	QPSK	135	0	23.71			24.0	1.0	
100	QPSK	135	69	24.43			25.0	0.0	
100	QPSK	135	138	23.49			24.0	1.0	
100	QPSK	270	0	23.01					
100	16QAM	1	1	23.28			24.0	1.0	
100	64QAM	1	1	21.24			22.5	2.5	
100	256QAM	1	1	20.28			20.5	4.5	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	25.0	0.0	
90	QPSK	1	1	24.41	24.36	24.40	25.0	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	25.0	0.0	
80	QPSK	1	1	24.35	24.42	24.24	25.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	25.0	0.0	
70	QPSK	1	1	24.34	24.23	24.32	25.0	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	25.0	0.0	
60	QPSK	1	1	24.44	24.46	24.42	25.0	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	25.0	0.0	
50	QPSK	1	1	24.33	24.27	24.42	25.0	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	25.0	0.0	
40	QPSK	1	1	24.43	24.34	24.34	25.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01	25.0	0.0	
30	QPSK	1	1	24.27	24.29	24.33	25.0	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	25.0	0.0	
20	QPSK	1	1	24.40	24.24	24.46	25.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	25.0	0.0	
15	QPSK	1	1	24.40	24.40	24.44	25.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	25.0	0.0	
10	QPSK	1	1	24.42	24.29	24.30	25.0	0.0	



Part270 n77 Main PA Ant3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.02	18.12	18.01			
100	PI2 BPSK	1	137	18.01	18.15	18.00	19.0	0.0	
100	PI2 BPSK	1	271	17.97	18.19	18.00			
100	PI2 BPSK	135	0	17.85	18.30	18.12	19.0	0.0	
100	PI2 BPSK	135	69	17.85	18.19	17.96	19.0	0.0	
100	PI2 BPSK	135	138	17.81	18.29	18.02	19.0	0.0	
100	PI2 BPSK	270	0	17.99	18.27	18.09			
100	QPSK	1	1	18.02	18.32	18.15			
100	QPSK	1	137	17.90	18.30	18.07	19.0	0.0	
100	QPSK	1	271	17.94	18.15	17.97			
100	QPSK	135	0	17.86	18.24	18.14	19.0	0.0	
100	QPSK	135	69	18.02	18.26	17.99	19.0	0.0	
100	QPSK	135	138	17.95	18.19	17.99			
100	QPSK	270	0	17.85	18.22	18.13	19.0	0.0	
100	16QAM	1	1	18.01	18.30	18.07	19.0	0.0	
100	16QAM	1	1	17.86	18.18	18.03	19.0	0.0	
100	256QAM	1	1	18.02	18.11	18.16	19.0	0.0	
Channel				650000	650000	650000			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.82	18.12	17.97	19.0	0.0	
Channel				649334	650000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.89	18.24	18.01	19.0	0.0	
Channel				649000	650000	653000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.95	18.11	17.97	19.0	0.0	
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.84	18.28	17.95	19.0	0.0	
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.98	18.18	18.00	19.0	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	18.01	18.16	17.94	19.0	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3995.01			
30	QPSK	1	1	17.94	18.16	18.15	19.0	0.0	
Channel				647334	650000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.90	18.11	18.07	19.0	0.0	
Channel				647188	650000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.01	18.26	17.99	19.0	0.0	
Channel				647000	650000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.00	18.14	18.04	19.0	0.0	

Part270 n77 PC2 Main PA Ant3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	20.85	20.78	20.66			
100	PI2 BPSK	1	137	20.86	20.80	20.77	22.0	0.0	
100	PI2 BPSK	1	271	20.70	20.94	20.85			
100	PI2 BPSK	135	0	20.87	20.78	20.64	22.0	0.0	
100	PI2 BPSK	135	69	20.86	20.85	20.77	22.0	0.0	
100	PI2 BPSK	135	138	20.80	20.93	20.76	22.0	0.0	
100	PI2 BPSK	270	0	20.80	20.89	20.74			
100	QPSK	1	1	20.80	20.95	20.84			
100	QPSK	1	137	20.76	20.90	20.64	22.0	0.0	
100	QPSK	1	271	20.81	20.77	20.75			
100	QPSK	135	0	20.69	20.88	20.68	22.0	0.0	
100	QPSK	135	69	20.86	20.92	20.76	22.0	0.0	
100	QPSK	135	138	20.84	20.80	20.82			
100	QPSK	270	0	20.76	20.88	20.77	22.0	0.0	
100	16QAM	1	1	20.79	20.90	20.74	22.0	0.0	
100	16QAM	1	1	20.72	20.81	20.80	22.0	0.0	
100	256QAM	1	1	20.82	20.81	20.78	22.0	0.0	
Channel				649668	650000	663334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.73	20.90	20.86	22.0	0.0	
Channel				649334	650000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.84	20.85	20.84	22.0	0.0	
Channel				649000	650000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.81	20.88	20.78	22.0	0.0	
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.92	20.75	20.83	22.0	0.0	
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.72	20.89	20.84	22.0	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	20.88	20.88	20.65	22.0	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3995.01			
30	QPSK	1	1	20.71	20.90	20.69	22.0	0.0	
Channel				647334	650000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.88	20.86	20.73	22.0	0.0	
Channel				647188	650000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	20.85	20.74	20.68	22.0	0.0	
Channel				647000	650000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.87	20.75	20.78	22.0	0.0	



Part270 n78 Main PA Ant3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1	17.42	17.42	17.42			
100	PI/2 BPSK	1	137	17.38	17.38	17.38	19.0	0.0	
100	PI/2 BPSK	1	271	17.25	17.25	17.25	19.0	0.0	
100	PI/2 BPSK	135	0	17.28	17.28	17.28	19.0	0.0	
100	PI/2 BPSK	135	69	17.24	17.24	17.24	19.0	0.0	
100	PI/2 BPSK	135	138	17.22	17.22	17.22	19.0	0.0	
100	PI/2 BPSK	270	0	17.40	17.40	17.40	19.0	0.0	
100	QPSK	1	1	17.43	17.43	17.43	19.0	0.0	
100	QPSK	1	137	17.41	17.41	17.41	19.0	0.0	
100	QPSK	1	271	17.42	17.42	17.42	19.0	0.0	
100	QPSK	135	0	17.40	17.40	17.40	19.0	0.0	
100	QPSK	135	69	17.41	17.41	17.41	19.0	0.0	
100	QPSK	135	138	17.34	17.34	17.34	19.0	0.0	
100	QPSK	270	0	17.38	17.38	17.38	19.0	0.0	
100	16QAM	1	1	17.25	17.25	17.25	19.0	0.0	
100	16QAM	1	1	17.29	17.29	17.29	19.0	0.0	
100	256QAM	1	1	17.38	17.38	17.38	19.0	0.0	
Channel				649688	650000	650314	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	19.0	0.0	
90	QPSK	1	1	17.25	17.41	17.31	19.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	19.0	0.0	
80	QPSK	1	1	17.23	17.23	17.26	19.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	19.0	0.0	
70	QPSK	1	1	17.28	17.39	17.26	19.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03	19.0	0.0	
60	QPSK	1	1	17.27	17.29	17.24	19.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	19.0	0.0	
50	QPSK	1	1	17.20	17.22	17.40	19.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	19.0	0.0	
40	QPSK	1	1	17.28	17.27	17.32	19.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01	19.0	0.0	
30	QPSK	1	1	17.40	17.28	17.38	19.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	19.0	0.0	
20	QPSK	1	1	17.30	17.40	17.40	19.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.53	19.0	0.0	
15	QPSK	1	1	17.38	17.37	17.22	19.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	19.0	0.0	
10	QPSK	1	1	17.32	17.40	17.41	19.0	0.0	

Part270 n78 PC2 Main PA Ant3 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1	20.60	20.60	20.60			
100	PI/2 BPSK	1	137	20.48	20.48	20.48	22.0	0.0	
100	PI/2 BPSK	1	271	20.37	20.37	20.37	22.0	0.0	
100	PI/2 BPSK	135	0	20.52	20.52	20.52	22.0	0.0	
100	PI/2 BPSK	135	69	20.62	20.62	20.62	22.0	0.0	
100	PI/2 BPSK	135	138	20.51	20.51	20.51	22.0	0.0	
100	PI/2 BPSK	270	0	20.60	20.60	20.60	22.0	0.0	
100	QPSK	1	1	20.64	20.64	20.64	22.0	0.0	
100	QPSK	1	137	20.57	20.57	20.57	22.0	0.0	
100	QPSK	1	271	20.55	20.55	20.55	22.0	0.0	
100	QPSK	135	0	20.60	20.60	20.60	22.0	0.0	
100	QPSK	135	69	20.62	20.62	20.62	22.0	0.0	
100	QPSK	135	138	20.61	20.61	20.61	22.0	0.0	
100	QPSK	270	0	20.65	20.65	20.65	22.0	0.0	
100	16QAM	1	1	20.44	20.44	20.44	22.0	0.0	
100	16QAM	1	1	20.52	20.52	20.52	22.0	0.0	
100	256QAM	1	1	20.58	20.58	20.58	22.0	0.0	
Channel				649688	650000	650314	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	22.0	0.0	
90	QPSK	1	1	20.58	20.49	20.44	22.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	22.0	0.0	
80	QPSK	1	1	20.51	20.55	20.54	22.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	22.0	0.0	
70	QPSK	1	1	20.55	20.51	20.60	22.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03	22.0	0.0	
60	QPSK	1	1	20.52	20.44	20.54	22.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	22.0	0.0	
50	QPSK	1	1	20.45	20.55	20.59	22.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	22.0	0.0	
40	QPSK	1	1	20.54	20.59	20.50	22.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01	22.0	0.0	
30	QPSK	1	1	20.55	20.63	20.54	22.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	22.0	0.0	
20	QPSK	1	1	20.60	20.52	20.47	22.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.53	22.0	0.0	
15	QPSK	1	1	20.56	20.61	20.63	22.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	22.0	0.0	
10	QPSK	1	1	20.43	20.60	20.45	22.0	0.0	



Part270 n77 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3760	3840	3930			
100	PI2 BPSK	1	1	22.26	22.56	22.61			
100	PI2 BPSK	1	137	22.29	22.62	22.43	23.7	0.0	
100	PI2 BPSK	1	271	22.27	22.47	22.54			
100	PI2 BPSK	135	0	22.25	22.49	22.47	23.7	0.0	
100	PI2 BPSK	135	69	22.35	22.60	22.44	23.7	0.0	
100	PI2 BPSK	135	138	22.23	22.50	22.52	23.7	0.0	
100	PI2 BPSK	270	0	22.43	22.61	22.52			
100	QPSK	1	1	22.42	22.56	22.64			
100	QPSK	1	137	22.38	22.63	22.52	23.7	0.0	
100	QPSK	1	271	22.28	22.63	22.44			
100	QPSK	135	0	22.21	22.54	22.53	23.7	0.0	
100	QPSK	135	69	22.43	22.64	22.54	23.7	0.0	
100	QPSK	135	138	22.40	22.60	22.62	23.7	0.0	
100	QPSK	270	0	22.40	22.60	22.58			
100	16QAM	1	1	22.23	22.61	22.63	23.7	0.0	
100	16QAM	1	1	22.21	22.46	22.55	23.7	0.0	
100	256QAM	1	1	22.28	22.60	22.64	23.7	0.0	
Channel				643663	650000	643334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3835.01			
90	QPSK	1	1	22.30	22.62	22.55	23.7	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3840.02			
80	QPSK	1	1	22.27	22.49	22.50	23.7	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3845			
70	QPSK	1	1	22.37	22.44	22.55	23.7	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3850.01			
60	QPSK	1	1	22.41	22.62	22.45	23.7	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3855.02			
50	QPSK	1	1	22.26	22.64	22.63	23.7	0.0	
Channel				643000	650000	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3890			
40	QPSK	1	1	22.44	22.63	22.55	23.7	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3835.01			
30	QPSK	1	1	22.26	22.63	22.55	23.7	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3870.02			
20	QPSK	1	1	22.24	22.50	22.46	23.7	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3872.61			
15	QPSK	1	1	22.42	22.58	22.47	23.7	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3875			
10	QPSK	1	1	22.38	22.50	22.61	23.7	0.0	

Part270 n77 PC2 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3760	3840	3930			
100	PI2 BPSK	1	1	25.20	25.42	25.29			
100	PI2 BPSK	1	137	25.24	25.40	25.21	26.7	0.0	
100	PI2 BPSK	1	271	25.25	25.55	25.36			
100	PI2 BPSK	135	0	25.38	25.56	25.29	26.7	0.0	
100	PI2 BPSK	135	69	25.41	25.51	25.22	26.7	0.0	
100	PI2 BPSK	135	138	25.30	25.40	25.16	26.7	0.0	
100	PI2 BPSK	270	0	25.33	25.59	25.34			
100	QPSK	1	1	25.41	25.62	25.36			
100	QPSK	1	137	25.43	25.50	25.28	26.7	0.0	
100	QPSK	1	271	25.28	25.42	25.15			
100	QPSK	135	0	25.42	25.54	25.29	26.7	0.0	
100	QPSK	135	69	25.27	25.60	25.30	26.7	0.0	
100	QPSK	135	138	25.32	25.55	25.34	26.7	0.0	
100	QPSK	270	0	25.28	25.56	25.34			
100	16QAM	1	1	25.41	25.43	25.23	26.7	0.0	
100	16QAM	1	1	24.77	24.87	24.88	26.2	0.5	
100	256QAM	1	1	21.00	21.33	21.20	22.7	4.0	
Channel				645668	650000	643334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3835.01			
90	QPSK	1	1	25.40	25.49	25.33	26.7	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3840.02			
80	QPSK	1	1	25.35	25.58	25.15	26.7	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3845			
70	QPSK	1	1	25.27	25.61	25.22	26.7	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3850.01			
60	QPSK	1	1	25.20	25.50	25.30	26.7	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3855.02			
50	QPSK	1	1	25.38	25.53	25.14	26.7	0.0	
Channel				643000	650000	643000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3890			
40	QPSK	1	1	25.27	25.59	25.27	26.7	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3835.01			
30	QPSK	1	1	25.29	25.61	25.13	26.7	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3870.02			
20	QPSK	1	1	25.39	25.59	25.24	26.7	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3872.61			
15	QPSK	1	1	25.33	25.54	25.30	26.7	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3875			
10	QPSK	1	1	25.24	25.46	25.24	26.7	0.0	



Part270 n78 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.43	22.43	22.43			
100	PI/2 BPSK	1	137	22.47	22.47	22.47	23.7	0.0	
100	PI/2 BPSK	1	271	22.44	22.44	22.44			
100	PI/2 BPSK	135	0	22.58	22.58	22.58	23.7	0.0	
100	PI/2 BPSK	135	69	22.59	22.59	22.59	23.7	0.0	
100	PI/2 BPSK	135	138	22.58	22.58	22.58	23.7	0.0	
100	PI/2 BPSK	270	0	22.58	22.58	22.58			
100	QPSK	1	1	22.61	22.61	22.61			
100	QPSK	1	137	22.45	22.45	22.45	23.7	0.0	
100	QPSK	1	271	22.58	22.58	22.58			
100	QPSK	135	0	22.41	22.41	22.41	23.7	0.0	
100	QPSK	135	69	22.60	22.60	22.60	23.7	0.0	
100	QPSK	135	138	22.55	22.55	22.55	23.7	0.0	
100	QPSK	270	0	22.49	22.49	22.49			
100	16QAM	1	1	22.55	22.55	22.55	23.7	0.0	
100	16QAM	1	1	22.20	22.20	22.20	23.7	0.0	
100	256QAM	1	1	20.79	20.79	20.79	22.2	1.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.55	22.46	22.48	23.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.52	22.55	22.57	23.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.53	22.41	22.41	23.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	22.48	22.51	22.58	23.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.42	22.52	22.44	23.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.47	22.59	22.53	23.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	22.42	22.53	22.52	23.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.41	22.43	22.45	23.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3793.51			
15	QPSK	1	1	22.48	22.55	22.51	23.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.57	22.58	22.44	23.7	0.0	

Part270 n78 PC2 Main PA Ant5 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI/2 BPSK	1	1	25.48	25.48	25.48			
100	PI/2 BPSK	1	137	25.52	25.52	25.52	26.7	0.0	
100	PI/2 BPSK	1	271	25.43	25.43	25.43			
100	PI/2 BPSK	135	0	25.43	25.43	25.43	26.7	0.0	
100	PI/2 BPSK	135	69	25.40	25.40	25.40	26.7	0.0	
100	PI/2 BPSK	135	138	25.54	25.54	25.54	26.7	0.0	
100	PI/2 BPSK	270	0	25.55	25.55	25.55			
100	QPSK	1	1	25.41	25.41	25.41			
100	QPSK	1	137	25.54	25.54	25.54	26.7	0.0	
100	QPSK	1	271	25.42	25.42	25.42			
100	QPSK	135	0	25.40	25.40	25.40	26.7	0.0	
100	QPSK	135	69	25.58	25.58	25.58	26.7	0.0	
100	QPSK	135	138	25.40	25.40	25.40	26.7	0.0	
100	QPSK	270	0	25.54	25.54	25.54			
100	16QAM	1	1	25.46	25.46	25.46	26.7	0.0	
100	16QAM	1	1	24.34	24.34	24.34	25.7	1.0	
100	256QAM	1	1	22.57	22.57	22.57	24.2	2.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	25.48	25.41	25.54	26.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	25.47	25.44	25.45	26.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	25.42	25.50	25.51	26.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	25.45	25.40	25.57	26.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	25.45	25.45	25.48	26.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	25.40	25.54	25.80	26.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	25.55	25.59	25.55	26.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	25.46	25.58	25.43	26.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3793.51			
15	QPSK	1	1	25.60	25.43	25.43	26.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	25.45	25.59	25.54	26.7	0.0	



Reduced Power Mode for Main PA N77&78 DSIS Simultaneous

Part270 n77 Main PA Ant1 DSIS Simultaneous								
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	20.14	20.18	20.28	22.0	0.0
100	PI/2 BPSK	1	137	20.04	20.24	20.19		
100	PI/2 BPSK	1	271	20.13	20.30	20.25		
100	PI/2 BPSK	135	0	20.04	20.15	20.21	22.0	0.0
100	PI/2 BPSK	135	69	20.11	20.23	20.26	22.0	0.0
100	PI/2 BPSK	135	138	20.13	20.29	20.22	22.0	0.0
100	PI/2 BPSK	270	0	20.09	20.13	20.21		
100	QPSK	1	1	20.22	20.32	20.06		
100	QPSK	1	137	20.02	20.13	20.11	22.0	0.0
100	QPSK	1	271	20.09	20.19	20.08		
100	QPSK	135	0	20.09	20.17	20.19	22.0	0.0
100	QPSK	135	69	20.09	20.30	20.11	22.0	0.0
100	QPSK	135	138	20.06	20.20	20.22	22.0	0.0
100	QPSK	270	0	20.02	20.09	20.02		
100	16QAM	1	1	20.13	20.23	20.08	22.0	0.0
100	64QAM	1	1	20.11	20.31	20.16	22.0	0.0
100	256QAM	1	1	20.08	20.23	20.09	22.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.09	20.16	20.23	22.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.10	20.15	20.18	22.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.05	20.21	20.25	22.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.07	20.14	20.22	22.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.15	20.18	20.22	22.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.10	20.20	20.17	22.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.14	20.20	20.11	22.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.09	20.27	20.18	22.0	0.0
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	20.07	20.22	20.24	22.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	20.13	20.23	20.31	22.0	0.0

Part270 n77 PC2 Main PA Ant1 Simultaneous								
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	23.43	23.45	23.69	25.0	0.0
100	PI/2 BPSK	1	137	23.52	23.51	23.45		
100	PI/2 BPSK	1	271	23.53	23.56	23.44		
100	PI/2 BPSK	135	0	23.56	23.46	23.51	25.0	0.0
100	PI/2 BPSK	135	69	23.39	23.37	23.47	25.0	0.0
100	PI/2 BPSK	135	138	23.51	23.61	23.53	25.0	0.0
100	PI/2 BPSK	270	0	23.54	23.47	23.66		
100	QPSK	1	1	23.43	23.68	23.42		
100	QPSK	1	137	23.54	23.33	23.55	25.0	0.0
100	QPSK	1	271	23.41	23.44	23.11		
100	QPSK	135	0	23.35	23.40	23.12	25.0	0.0
100	QPSK	135	69	23.51	23.09	23.25	25.0	0.0
100	QPSK	135	138	23.36	23.43	23.14	25.0	0.0
100	QPSK	270	0	23.42	23.43	23.07		
100	16QAM	1	1	23.44	23.46	23.15	25.0	0.0
100	64QAM	1	1	21.86	21.88	21.89	23.5	1.5
100	256QAM	1	1	20.00	20.09	19.88	21.5	3.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.55	23.39	23.55	25.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.38	23.51	23.43	25.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	23.35	23.43	23.53	25.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	23.47	23.33	23.47	25.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	23.49	23.43	23.65	25.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.56	23.44	23.45	25.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.50	23.34	23.66	25.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.57	23.40	23.61	25.0	0.0
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	23.48	23.40	23.50	25.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	23.46	23.39	23.64	25.0	0.0





### Part270 n78 Main PA Ant1 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.			
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		20.74				
100	PI2 BPSK	1	137		20.83				
100	PI2 BPSK	1	271		20.71				
100	PI2 BPSK	135	0		20.69		22.0	0.0	
100	PI2 BPSK	135	69		20.73		22.0	0.0	
100	PI2 BPSK	135	138		20.76		22.0	0.0	
100	PI2 BPSK	270	0		20.61				
100	QPSK	1	1		20.76				
100	QPSK	1	137		20.74		22.0	0.0	
100	QPSK	1	271		20.58				
100	QPSK	135	0		20.65		22.0	0.0	
100	QPSK	135	69		20.75		22.0	0.0	
100	QPSK	135	138		20.66		22.0	0.0	
100	QPSK	270	0		20.74				
100	16QAM	1	1		20.75		22.0	0.0	
100	64QAM	1	1		19.23		20.5	1.5	
100	256QAM	1	1		17.32		18.5	3.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.68	20.61	20.59	22.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.61	20.61	20.68	22.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.68	20.75	20.74	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		20.70	20.71	20.62	22.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3795.02			
50	QPSK	1	1		20.80	20.82	20.59	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.81	20.65	20.70	22.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		20.60	20.54	20.56	22.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.62	20.62	20.69	22.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		20.75	20.69	20.61	22.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.82	20.73	20.64	22.0	0.0

### Part270 n78 PC2 Main PA Ant1 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.			
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		23.10				
100	PI2 BPSK	1	137		23.14				
100	PI2 BPSK	1	271		23.17				
100	PI2 BPSK	135	0		23.19		25.0	0.0	
100	PI2 BPSK	135	69		23.16		25.0	0.0	
100	PI2 BPSK	135	138		23.15		25.0	0.0	
100	PI2 BPSK	270	0		23.04				
100	QPSK	1	1		23.23				
100	QPSK	1	137		23.08		25.0	0.0	
100	QPSK	1	271		23.14				
100	QPSK	135	0		23.11		25.0	0.0	
100	QPSK	135	69		23.18		25.0	0.0	
100	QPSK	135	138		23.01		25.0	0.0	
100	QPSK	270	0		23.13				
100	16QAM	1	1		23.10		25.0	0.0	
100	64QAM	1	1		21.67		23.5	1.5	
100	256QAM	1	1		19.59		21.5	3.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.15	23.10	23.11	25.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		23.04	23.06	23.18	25.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		23.02	23.05	23.13	25.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		23.11	23.17	23.05	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3795.02			
50	QPSK	1	1		23.13	23.20	23.07	25.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.18	23.11	23.10	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		23.18	23.20	23.14	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.22	23.04	23.21	25.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		23.02	23.07	23.21	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		23.06	23.10	23.10	25.0	0.0



Part270 n77 Main PA Ant2 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				65000	65000	65000	
Frequency (MHz)				3760	3840	3930	
100	PI2 BPSK	1	1	20.46	20.45	20.39	
100	PI2 BPSK	1	137	20.50	20.53	20.29	21.7
100	PI2 BPSK	1	271	20.39	20.45	20.40	
100	PI2 BPSK	135	0	20.40	20.42	20.30	21.7
100	PI2 BPSK	135	69	20.44	20.56	20.46	21.7
100	PI2 BPSK	135	138	20.31	20.59	20.47	21.7
100	PI2 BPSK	270	0	20.49	20.49	20.47	
100	QPSK	1	1	20.42	20.57	20.40	
100	QPSK	1	137	20.16	20.44	20.37	21.7
100	QPSK	1	271	20.42	20.40	20.39	
100	QPSK	135	0	20.28	20.36	20.29	21.7
100	QPSK	135	69	20.41	20.62	20.39	21.7
100	QPSK	135	138	20.38	20.47	20.36	21.7
100	QPSK	270	0	20.50	20.56	20.30	
100	16QAM	1	1	20.42	20.41	20.53	21.7
100	16QAM	1	1	20.14	20.48	20.26	21.7
100	256QAM	1	1	20.28	20.64	20.59	21.7
Channel				643683	650000	662668	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	
90	QPSK	1	1	20.35	20.47	20.59	21.7
Channel				649334	650000	662668	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	20.40	20.54	20.55	21.7
Channel				645000	650000	663000	MPR (dB)
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	20.28	20.59	20.47	21.7
Channel				648668	650000	663334	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	20.33	20.85	20.60	21.7
Channel				648334	650000	663668	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	20.31	20.50	20.44	21.7
Channel				645000	650000	664000	MPR (dB)
Frequency (MHz)				3720	3840	3990	
40	QPSK	1	1	20.40	20.54	20.45	21.7
Channel				647668	650000	664334	MPR (dB)
Frequency (MHz)				3715.02	3840	3925.01	
30	QPSK	1	1	20.43	20.51	20.62	21.7
Channel				647334	650000	664668	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	20.31	20.43	20.48	21.7
Channel				647188	650000	664834	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	20.39	20.58	20.51	21.7
Channel				647000	650000	665000	MPR (dB)
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	20.42	20.52	20.44	21.7

Part270 n77 PC2 Main PA Ant2 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				65000	65000	65000	
Frequency (MHz)				3760	3840	3930	
100	PI2 BPSK	1	1	23.24	23.44	23.08	
100	PI2 BPSK	1	137	23.24	23.37	23.17	24.7
100	PI2 BPSK	1	271	23.16	23.42	23.26	
100	PI2 BPSK	135	0	23.32	23.24	23.13	24.7
100	PI2 BPSK	135	69	23.19	23.39	23.25	24.7
100	PI2 BPSK	135	138	23.16	23.28	23.09	24.7
100	PI2 BPSK	270	0	23.21	23.43	23.08	
100	QPSK	1	1	23.29	23.47	23.14	
100	QPSK	1	137	23.29	23.23	23.14	24.7
100	QPSK	1	271	23.17	23.31	23.10	
100	QPSK	135	0	23.24	23.38	23.19	24.7
100	QPSK	135	69	23.21	23.40	23.06	24.7
100	QPSK	135	138	23.22	23.29	23.10	24.7
100	QPSK	270	0	23.25	23.36	23.16	
100	16QAM	1	1	23.34	23.33	23.06	24.7
100	16QAM	1	1	22.81	22.86	22.79	23.2
100	256QAM	1	1	20.76	20.86	20.88	21.2
Channel				648668	650000	663334	MPR (dB)
Frequency (MHz)				3745.02	3840	3955.01	
90	QPSK	1	1	23.21	23.27	23.23	24.7
Channel				649334	650000	662668	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	23.29	23.29	23.14	24.7
Channel				645000	650000	663000	MPR (dB)
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	23.30	23.26	23.20	24.7
Channel				648668	650000	663334	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	23.25	23.44	23.28	24.7
Channel				648334	650000	663668	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	23.28	23.25	23.28	24.7
Channel				645000	650000	664000	MPR (dB)
Frequency (MHz)				3720	3840	3990	
40	QPSK	1	1	23.36	23.34	23.27	24.7
Channel				647668	650000	664334	MPR (dB)
Frequency (MHz)				3715.02	3840	3925.01	
30	QPSK	1	1	23.35	23.33	23.23	24.7
Channel				647334	650000	664668	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	23.22	23.35	23.20	24.7
Channel				647188	650000	664834	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	23.23	23.31	23.07	24.7
Channel				647000	650000	665000	MPR (dB)
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	23.31	23.39	23.08	24.7



Part270 n78 Main PA Ant2 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	21.55	21.55	21.55			
100	PI/2 BPSK	1	137	21.50	21.50	21.50	22.0	0.0	
100	PI/2 BPSK	1	271	21.58	21.58	21.58			
100	PI/2 BPSK	135	0	21.81	21.81	21.81	22.0	0.0	
100	PI/2 BPSK	135	69	21.49	21.49	21.49	22.0	0.0	
100	PI/2 BPSK	135	138	21.58	21.58	21.58	22.0	0.0	
100	PI/2 BPSK	270	0	21.47	21.47	21.47			
100	QPSK	1	1	21.85	21.85	21.85			
100	QPSK	1	137	21.83	21.83	21.83	22.0	0.0	
100	QPSK	1	271	21.61	21.61	21.61			
100	QPSK	135	0	21.51	21.51	21.51	22.0	0.0	
100	QPSK	135	69	21.60	21.60	21.60	22.0	0.0	
100	QPSK	135	138	21.58	21.58	21.58	22.0	0.0	
100	QPSK	270	0	21.55	21.55	21.55			
100	16QAM	1	1	21.54	21.54	21.54	22.0	0.0	
100	16QAM	1	1	20.10	20.10	20.10	20.5	1.5	
100	256QAM	1	1	18.05	18.05	18.05	18.5	3.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.57	21.53	21.47	22.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.59	21.59	21.52	22.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.52	21.51	21.49	22.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3750.01			
60	QPSK	1	1	21.60	21.58	21.61	22.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	21.55	21.52	21.54	22.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	21.57	21.61	21.51	22.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	21.63	21.67	21.62	22.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	21.54	21.48	21.50	22.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	21.49	21.57	21.47	22.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	21.56	21.60	21.58	22.0	0.0	

Part270 n78 PC2 Main PA Ant2 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	23.38	23.38	23.38			
100	PI/2 BPSK	1	137	23.42	23.42	23.42	24.7	0.0	
100	PI/2 BPSK	1	271	23.33	23.33	23.33			
100	PI/2 BPSK	135	0	23.39	23.39	23.39	24.7	0.0	
100	PI/2 BPSK	135	69	23.38	23.38	23.38	24.7	0.0	
100	PI/2 BPSK	135	138	23.35	23.35	23.35	24.7	0.0	
100	PI/2 BPSK	270	0	23.33	23.33	23.33			
100	QPSK	1	1	23.47	23.47	23.47			
100	QPSK	1	137	23.48	23.48	23.48	24.7	0.0	
100	QPSK	1	271	23.31	23.31	23.31			
100	QPSK	135	0	23.50	23.50	23.50	24.7	0.0	
100	QPSK	135	69	23.55	23.55	23.55	24.7	0.0	
100	QPSK	135	138	23.42	23.42	23.42	24.7	0.0	
100	QPSK	270	0	23.53	23.53	23.53			
100	16QAM	1	1	23.34	23.34	23.34	24.7	0.0	
100	16QAM	1	1	22.84	22.84	22.84	23.2	1.5	
100	256QAM	1	1	20.78	20.78	20.78	21.2	3.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	23.38	23.31	23.34	24.7	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	23.33	23.43	23.44	24.7	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	23.44	23.37	23.39	24.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3750.01			
60	QPSK	1	1	23.31	23.52	23.37	24.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	23.41	23.44	23.37	24.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	23.39	23.33	23.51	24.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1	23.51	23.52	23.39	24.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	23.34	23.54	23.43	24.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	23.31	23.50	23.50	24.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	23.54	23.34	23.31	24.7	0.0	



Part270 n77 Main PA Ant3 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	18.38	18.55	18.55			
100	PI2 BPSK	1	137	18.04	18.61	18.43	19.9	0.0	
100	PI2 BPSK	1	271	18.18	18.59	18.42			
100	PI2 BPSK	135	0	18.32	18.56	18.38	19.9	0.0	
100	PI2 BPSK	135	69	18.21	18.38	18.34	19.9	0.0	
100	PI2 BPSK	135	138	18.22	18.63	18.29	19.9	0.0	
100	PI2 BPSK	270	0	18.29	18.47	18.21			
100	QPSK	1	1	18.54	18.67	18.61			
100	QPSK	1	137	18.10	18.46	18.54	19.9	0.0	
100	QPSK	1	271	18.34	18.61	18.54			
100	QPSK	135	0	18.10	18.39	18.38	19.9	0.0	
100	QPSK	135	69	18.13	18.65	18.46	19.9	0.0	
100	QPSK	135	138	18.22	18.60	18.45	19.9	0.0	
100	QPSK	270	0	18.42	18.58	18.43			
100	16QAM	1	1	18.22	18.42	18.32	19.9	0.0	
100	16QAM	1	1	18.42	18.54	18.61	19.9	0.0	
100	256QAM	1	1	18.17	18.37	18.35	19.9	0.0	
Channel				649568	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.28	18.54	18.40	19.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.22	18.40	18.55	19.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.07	18.40	18.48	19.9	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.25	18.49	18.58	19.9	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	18.48	18.46	19.9	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.28	18.32	18.49	19.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.27	18.40	18.45	19.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.08	18.39	18.57	19.9	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	19.19	19.54	19.53	19.9	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.21	18.38	18.53	19.9	0.0	

Part270 n77 PC2 Main PA Ant3 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	21.11	21.52	21.30			
100	PI2 BPSK	1	137	21.19	21.49	21.32	22.9	0.0	
100	PI2 BPSK	1	271	21.11	21.45	21.02			
100	PI2 BPSK	135	0	21.26	21.42	21.18	22.9	0.0	
100	PI2 BPSK	135	69	21.22	21.51	21.17	22.9	0.0	
100	PI2 BPSK	135	138	20.93	21.52	21.29	22.9	0.0	
100	PI2 BPSK	270	0	21.09	21.25	21.05			
100	QPSK	1	1	21.38	21.54	21.43			
100	QPSK	1	137	21.07	21.39	21.37	22.9	0.0	
100	QPSK	1	271	20.96	21.52	21.16			
100	QPSK	135	0	21.11	21.41	21.07	22.9	0.0	
100	QPSK	135	69	20.93	21.51	21.29	22.9	0.0	
100	QPSK	135	138	21.07	21.49	21.33	22.9	0.0	
100	QPSK	270	0	21.02	21.48	21.08			
100	16QAM	1	1	21.22	21.41	21.06	22.9	0.0	
100	16QAM	1	1	20.95	21.30	21.03	22.9	0.0	
100	256QAM	1	1	21.09	21.23	21.18	22.9	0.0	
Channel				649568	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.16	21.43	21.24	22.9	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.21	21.29	21.20	22.9	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.29	21.50	21.22	22.9	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.20	21.52	21.15	22.9	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.11	21.25	21.17	22.9	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.13	21.44	21.21	22.9	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.15	21.16	21.27	22.9	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.25	21.30	21.09	22.9	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	21.30	21.15	21.24	22.9	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.24	21.13	21.16	22.9	0.0	



Part270 n78 Main PA Ant3 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		17.98				
100	PI2 BPSK	1	137		18.04				0.0
100	PI2 BPSK	1	271		17.97			19.9	0.0
100	PI2 BPSK	135	0		17.96			19.9	0.0
100	PI2 BPSK	135	69		17.94			19.9	0.0
100	PI2 BPSK	135	138		18.03			19.9	0.0
100	PI2 BPSK	270	0		17.92			19.9	0.0
100	QPSK	1	1		18.14			19.9	0.0
100	QPSK	1	137		18.05			19.9	0.0
100	QPSK	1	271		17.98			19.9	0.0
100	QPSK	135	0		17.96			19.9	0.0
100	QPSK	135	69		18.08			19.9	0.0
100	QPSK	135	138		18.05			19.9	0.0
100	QPSK	270	0		18.03			19.9	0.0
100	16QAM	1	1		17.98			19.9	0.0
100	64QAM	1	1		18.05			19.9	0.0
100	256QAM	1	1		17.95			19.9	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		18.02	18.04	18.01	19.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		17.94	18.00	17.87	19.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		17.93	17.94	18.13	19.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3730.01			
60	QPSK	1	1		17.94	17.97	18.02	19.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1		17.97	17.95	17.83	19.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.02	18.12	17.98	19.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1		18.01	17.94	17.84	19.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.11	18.09	18.10	19.9	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1		18.13	17.95	18.06	19.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		18.07	18.03	18.14	19.9	0.0

Part270 n78 PC2 Main PA Ant3 DSI5 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		21.13				
100	PI2 BPSK	1	137		21.12			22.9	0.0
100	PI2 BPSK	1	271		21.08			22.9	0.0
100	PI2 BPSK	135	0		21.12			22.9	0.0
100	PI2 BPSK	135	69		21.04			22.9	0.0
100	PI2 BPSK	135	138		21.15			22.9	0.0
100	PI2 BPSK	270	0		21.16			22.9	0.0
100	QPSK	1	1		21.21			22.9	0.0
100	QPSK	1	137		20.96			22.9	0.0
100	QPSK	1	271		21.08			22.9	0.0
100	QPSK	135	0		20.92			22.9	0.0
100	QPSK	135	69		21.18			22.9	0.0
100	QPSK	135	138		21.04			22.9	0.0
100	QPSK	270	0		21.14			22.9	0.0
100	16QAM	1	1		20.98			22.9	0.0
100	64QAM	1	1		20.99			22.9	0.0
100	256QAM	1	1		21.04			22.9	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		21.07	21.11	21.05	22.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		21.05	21.00	21.07	22.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.02	21.08	21.12	22.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3730.01			
60	QPSK	1	1		20.95	21.05	21.11	22.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1		21.11	21.01	21.04	22.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.02	21.04	20.95	22.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1		21.07	21.06	21.01	22.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.94	20.97	20.97	22.9	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1		21.05	21.15	20.98	22.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		21.07	21.12	20.94	22.9	0.0



### Part270 n77 Main PA Ant5 DSI5 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)				650000	656000	662000		
100	PI2 BPSK	1	1	21.16	21.44	21.59		
100	PI2 BPSK	1	137	21.32	21.49	21.40	22.7	0.0
100	PI2 BPSK	1	271	21.31	21.35	21.56		
100	PI2 BPSK	135	0	21.09	21.50	21.42	22.7	0.0
100	PI2 BPSK	135	69	21.23	21.68	21.36	22.7	0.0
100	PI2 BPSK	135	138	21.11	21.38	21.40	22.7	0.0
100	PI2 BPSK	270	0	21.26	21.66	21.49		
100	QPSK	1	1	21.48	21.76	21.57		
100	QPSK	1	137	21.44	21.89	21.45	22.7	0.0
100	QPSK	1	271	21.18	21.80	21.33		
100	QPSK	135	0	21.26	21.41	21.50	22.7	0.0
100	QPSK	135	69	21.46	21.71	21.52	22.7	0.0
100	QPSK	135	138	21.45	21.62	21.62		
100	QPSK	270	0	21.48	21.67	21.57	22.7	0.0
100	16QAM	1	1	21.29	21.46	21.61	22.7	0.0
100	64QAM	1	1	21.27	21.49	21.39	22.7	0.0
100	256QAM	1	1	21.16	21.54	21.59	22.7	0.0
Channel								
Frequency (MHz)				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.26	21.47	21.32	22.7	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.31	21.64	21.48	22.7	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.22	21.52	21.35	22.7	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.23	21.56	21.49	22.7	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.20	21.49	21.32	22.7	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.28	21.55	21.32	22.7	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.28	21.65	21.29	22.7	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.20	21.60	21.35	22.7	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.32	21.64	21.33	22.7	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.19	21.64	21.48	22.7	0.0

### Part270 n77 PC2 Main PA Ant5 DSI5 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)				650000	656000	662000		
100	PI2 BPSK	1	1	24.26	24.41	24.34		
100	PI2 BPSK	1	137	24.29	24.41	24.26	25.7	0.0
100	PI2 BPSK	1	271	24.28	24.45	24.36		
100	PI2 BPSK	135	0	24.26	24.57	24.35	25.7	0.0
100	PI2 BPSK	135	69	24.29	24.38	24.13	25.7	0.0
100	PI2 BPSK	135	138	24.13	24.35	24.16	25.7	0.0
100	PI2 BPSK	270	0	24.19	24.60	24.36		
100	QPSK	1	1	24.38	24.64	24.39		
100	QPSK	1	137	24.46	24.52	24.16	25.7	0.0
100	QPSK	1	271	24.22	24.31	24.16		
100	QPSK	135	0	24.27	24.37	24.17	25.7	0.0
100	QPSK	135	69	24.27	24.58	24.26	25.7	0.0
100	QPSK	135	138	24.33	24.46	24.24	25.7	0.0
100	QPSK	270	0	24.11	24.55	24.30		
100	16QAM	1	1	24.35	24.28	24.28	25.7	0.0
100	64QAM	1	1	24.45	24.41	24.19	25.7	0.0
100	256QAM	1	1	21.45	21.56	21.48	22.7	3.0
Channel								
Frequency (MHz)				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.31	24.58	24.35	25.7	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.15	24.43	24.25	25.7	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.13	24.43	24.23	25.7	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.31	24.62	24.40	25.7	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.30	24.59	24.33	25.7	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.28	24.54	24.34	25.7	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.15	24.48	24.21	25.7	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.24	24.43	24.31	25.7	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.24	24.58	24.29	25.7	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.16	24.61	24.21	25.7	0.0



Part270 n78 Main PA Ant5 DSI5 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1			21.37				
100	PI2 BPSK	1	137			21.52				
100	PI2 BPSK	1	271			21.51				
100	PI2 BPSK	135	0			21.52	22.7	0.0		
100	PI2 BPSK	135	69			21.48	22.7	0.0		
100	PI2 BPSK	135	138			21.60	22.7	0.0		
100	PI2 BPSK	270	0			21.60	22.7	0.0		
100	QPSK	1	1			21.65				
100	QPSK	1	137			21.47	22.7	0.0		
100	QPSK	1	271			21.51				
100	QPSK	135	0			21.47	22.7	0.0		
100	QPSK	135	69			21.64	22.7	0.0		
100	QPSK	135	138			21.60	22.7	0.0		
100	QPSK	270	0			21.55	22.7	0.0		
100	16QAM	1	1			21.62	22.7	0.0		
100	64QAM	1	1			21.04	22.7	0.0		
100	256QAM	1	1			20.51	22.2	0.5		
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1			21.47	21.45	21.47	22.7	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1			21.56	21.63	21.60	22.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1			21.63	21.45	21.44	22.7	0.0
Channel				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1			21.52	21.60	21.50	22.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3725.02				
50	QPSK	1	1			21.54	21.45	21.45	22.7	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3760				
40	QPSK	1	1			21.57	21.56	21.42	22.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3715.01				
30	QPSK	1	1			21.64	21.48	21.63	22.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3730.02				
20	QPSK	1	1			21.51	21.44	21.50	22.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3702.51				
15	QPSK	1	1			21.47	21.60	21.60	22.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3705				
10	QPSK	1	1			21.47	21.62	21.42	22.7	0.0

Part270 n78 PC2 Main PA Ant5 DSI5 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1			24.36				
100	PI2 BPSK	1	137			24.49				
100	PI2 BPSK	1	271			24.49				
100	PI2 BPSK	135	0			24.46	25.7	0.0		
100	PI2 BPSK	135	69			24.38	25.7	0.0		
100	PI2 BPSK	135	138			24.59	25.7	0.0		
100	PI2 BPSK	270	0			24.59	25.7	0.0		
100	QPSK	1	1			24.60				
100	QPSK	1	137			24.53	25.7	0.0		
100	QPSK	1	271			24.44				
100	QPSK	135	0			24.34	25.7	0.0		
100	QPSK	135	69			24.52	25.7	0.0		
100	QPSK	135	138			24.42	25.7	0.0		
100	QPSK	270	0			24.48	25.7	0.0		
100	16QAM	1	1			24.34	25.7	0.0		
100	64QAM	1	1			24.23	25.7	0.0		
100	256QAM	1	1			23.71	24.2	1.5		
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1			24.47	24.42	24.45	25.7	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1			24.40	24.43	24.48	25.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1			24.47	24.37	24.55	25.7	0.0
Channel				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1			24.48	24.54	24.41	25.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3725.02				
50	QPSK	1	1			24.53	24.53	24.57	25.7	0.0
Channel				649000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3760				
40	QPSK	1	1			24.48	24.54	24.39	25.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3715.01				
30	QPSK	1	1			24.51	24.40	24.56	25.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3730.02				
20	QPSK	1	1			24.59	24.45	24.51	25.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3702.51				
15	QPSK	1	1			24.50	24.45	24.54	25.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3705				
10	QPSK	1	1			24.59	24.38	24.41	25.7	0.0



Reduced Power Mode for Main PA n77&78 DSI 5

Part270 n77 Main PA Ant1 DSI5								
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				65900	65900	65900		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	21.09	21.35	21.24		
100	PI2 BPSK	1	137	21.09	21.29	21.24	23.0	0.0
100	PI2 BPSK	1	271	21.06	21.11	21.05		
100	PI2 BPSK	135	0	21.21	21.28	21.05	23.0	0.0
100	PI2 BPSK	135	69	21.05	21.17	21.14	23.0	0.0
100	PI2 BPSK	135	138	21.04	21.13	21.05		
100	PI2 BPSK	270	0	21.01	21.14	21.05	23.0	0.0
100	QPSK	1	1	21.28	21.35	21.18		
100	QPSK	1	137	21.10	21.14	21.03	23.0	0.0
100	QPSK	1	271	21.01	21.01	21.01		
100	QPSK	135	0	21.05	21.08	21.03	23.0	0.0
100	QPSK	135	69	21.12	21.25	21.02	23.0	0.0
100	QPSK	135	138	21.03	21.10	21.01	23.0	0.0
100	QPSK	270	0	21.13	21.24	21.15		
100	16QAM	1	1	21.14	21.19	21.05	23.0	0.0
100	64QAM	1	1	21.23	21.35	21.30	23.0	0.0
100	256QAM	1	1	20.35	20.42	20.28	22.0	1.0
Channel				64898	65600	66234	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.11	21.25	21.09	23.0	0.0
Channel				64934	65600	66268	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.24	21.23	21.10	23.0	0.0
Channel				64900	65600	66300	Tune-up limit (dB)	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.23	21.28	21.05	23.0	0.0
Channel				64868	65600	66334	Tune-up limit (dB)	MPR
Frequency (MHz)				3731.02	3840	3951.01		
60	QPSK	1	1	21.08	21.18	21.10	23.0	0.0
Channel				64834	65600	66368	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.17	21.28	21.03	23.0	0.0
Channel				64800	65600	66400	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.24	21.25	21.02	23.0	0.0
Channel				64768	65600	66434	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.04	21.09	21.01	23.0	0.0
Channel				64734	65600	66468	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.14	21.23	21.14	23.0	0.0
Channel				64718	65600	66484	Tune-up limit (dB)	MPR
Frequency (MHz)				3707.02	3840	3972.01		
15	QPSK	1	1	21.20	21.11	21.15	23.0	0.0
Channel				64700	65600	66500	Tune-up limit (dB)	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	21.02	21.20	21.07	23.0	0.0

Part270 n77 PC2 Main PA Ant1								
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				65900	65900	65900		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.57	23.77	23.39		
100	PI2 BPSK	1	137	23.49	23.66	23.31	25.0	0.0
100	PI2 BPSK	1	271	23.57	23.69	23.30		
100	PI2 BPSK	135	0	23.50	23.71	23.18	24.5	0.5
100	PI2 BPSK	135	69	23.64	23.62	23.24	25.0	0.0
100	PI2 BPSK	135	138	23.47	23.56	23.09		
100	PI2 BPSK	270	0	23.40	23.57	23.11	24.5	0.5
100	QPSK	1	1	24.08	24.16	23.75		
100	QPSK	1	137	23.53	23.64	23.18	25.0	0.0
100	QPSK	1	271	23.49	23.68	23.39		
100	QPSK	135	0	23.48	23.59	23.09	24.0	1.0
100	QPSK	135	69	24.08	24.15	23.77	25.0	0.0
100	QPSK	135	138	23.41	23.48	22.97	24.0	1.0
100	QPSK	270	0	23.46	23.66	23.29		
100	16QAM	1	1	23.39	23.48	23.01	24.0	1.0
100	64QAM	1	1	21.61	21.75	21.40	22.5	2.5
100	256QAM	1	1	20.10	20.10	19.84	20.5	4.5
Channel				64898	65600	66334	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	23.88	24.08	23.82	25.0	0.0
Channel				64934	65600	66268	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	23.94	24.14	23.79	25.0	0.0
Channel				64900	65600	66300	Tune-up limit (dB)	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	23.94	24.09	23.87	25.0	0.0
Channel				64868	65600	66334	Tune-up limit (dB)	MPR
Frequency (MHz)				3731.02	3840	3951.01		
60	QPSK	1	1	23.88	24.11	23.78	25.0	0.0
Channel				64834	65600	66368	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	24.03	24.12	23.88	25.0	0.0
Channel				64800	65600	66400	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.02	24.13	23.84	25.0	0.0
Channel				64768	65600	66434	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.97	23.98	23.82	25.0	0.0
Channel				64734	65600	66468	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	24.08	24.01	23.82	25.0	0.0
Channel				64718	65600	66484	Tune-up limit (dB)	MPR
Frequency (MHz)				3707.02	3840	3972.01		
15	QPSK	1	1	23.97	24.00	23.77	25.0	0.0
Channel				64700	65600	66500	Tune-up limit (dB)	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	23.90	24.14	23.75	25.0	0.0





Part270 n78 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	21.85	21.87		23.0	0.0	
100	PI2 BPSK	1	137	21.87					
100	PI2 BPSK	1	271	21.85					
100	PI2 BPSK	135	0	21.84			22.5	0.5	
100	PI2 BPSK	135	69	21.86			23.0	0.0	
100	PI2 BPSK	135	138	21.83			22.5	0.5	
100	PI2 BPSK	270	0	21.87					
100	QPSK	1	1	21.70			23.0	0.0	
100	QPSK	1	137	21.58					
100	QPSK	1	271	21.58					
100	QPSK	135	0	21.48			22.0	1.0	
100	QPSK	135	69	21.86			23.0	0.0	
100	QPSK	135	138	21.95			22.0	1.0	
100	QPSK	270	0	21.37					
100	16QAM	1	1	20.21			22.0	1.0	
100	64QAM	1	1	19.28			20.5	2.5	
100	256QAM	1	1	17.41			18.5	4.5	
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	21.53	21.60	21.54	23.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.58	21.67	21.53	23.0	0.0	
Channel									
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	21.85	21.52	21.57	23.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.89	21.56	21.51	23.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	21.83	21.48	21.49	23.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.55	21.59	21.53	23.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.68	21.68	21.58	23.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.49	21.47	21.62	23.0	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.63	21.55	21.61	23.0	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.50	21.46	21.69	23.0	0.0	

Part270 n78 PC2 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	24.14	24.12		25.0	0.0	
100	PI2 BPSK	1	137	24.12					
100	PI2 BPSK	1	271	24.02					
100	PI2 BPSK	135	0	23.87			24.5	0.5	
100	PI2 BPSK	135	69	24.09			25.0	0.0	
100	PI2 BPSK	135	138	24.01			24.5	0.5	
100	PI2 BPSK	270	0	23.86					
100	QPSK	1	1	24.15			25.0	0.0	
100	QPSK	1	137	23.93					
100	QPSK	1	271	23.97					
100	QPSK	135	0	23.62			24.0	1.0	
100	QPSK	135	69	23.98			25.0	0.0	
100	QPSK	135	138	23.28			24.0	1.0	
100	QPSK	270	0	23.51					
100	16QAM	1	1	22.94			24.0	1.0	
100	64QAM	1	1	20.68			22.5	2.5	
100	256QAM	1	1	19.87			20.5	4.5	
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	23.95	24.04	24.07	25.0	0.0	
Channel									
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.04	23.96	23.89	25.0	0.0	
Channel									
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	24.05	24.00	23.89	25.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	23.99	24.06	23.99	25.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.96	23.88	24.08	25.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.08	24.05	23.89	25.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.99	23.99	23.91	25.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.95	23.94	23.89	25.0	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.85	23.87	24.04	25.0	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.03	24.03	23.85	25.0	0.0	



Part270 n77 Main PA Ant2 DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	Pl2 BPSK	1	1	21.42	21.53	21.43			
100	Pl2 BPSK	1	137	21.56	21.59	21.39	21.7	0.0	
100	Pl2 BPSK	1	271	21.46	21.54	21.41			
100	Pl2 BPSK	135	0	21.40	21.55	21.34	21.7	0.0	
100	Pl2 BPSK	135	69	21.42	21.59	21.56	21.7	0.0	
100	Pl2 BPSK	135	138	21.45	21.61	21.43	21.7	0.0	
100	Pl2 BPSK	270	0	21.43	21.57	21.58			
100	QPSK	1	1	21.52	21.64	21.41			
100	QPSK	1	137	21.30	21.51	21.37	21.7	0.0	
100	QPSK	1	271	21.47	21.57	21.48			
100	QPSK	135	0	21.38	21.53	21.39	21.7	0.0	
100	QPSK	135	69	21.49	21.56	21.37	21.7	0.0	
100	QPSK	135	138	21.36	21.45	21.37	21.7	0.0	
100	QPSK	270	0	21.45	21.53	21.35	21.7	0.0	
100	16QAM	1	1	21.53	21.52	21.49	21.7	0.0	
100	16QAM	1	1	21.30	21.52	21.35	21.7	0.0	
100	256QAM	1	1	20.67	20.61	20.54	20.7	1.0	
Channel				649598	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.50	21.40	21.41	21.7	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.37	21.39	21.41	21.7	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.48	21.46	21.41	21.7	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.49	21.48	21.40	21.7	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.45	21.32	21.33	21.7	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.47	21.35	21.38	21.7	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	21.43	21.41	21.45	21.7	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.50	21.34	21.51	21.7	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3971.51			
15	QPSK	1	1	21.45	21.43	21.47	21.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.42	21.37	21.45	21.7	0.0	

Part270 n77 PC2 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	Pl2 BPSK	1	1	24.18	24.21	24.01			
100	Pl2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0	
100	Pl2 BPSK	1	271	24.27	24.30	24.23			
100	Pl2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0	
100	Pl2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0	
100	Pl2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0	
100	Pl2 BPSK	270	0	24.13	24.17	24.12			
100	QPSK	1	1	24.31	24.40	24.23			
100	QPSK	1	137	24.13	24.24	24.21	25.0	0.0	
100	QPSK	1	271	24.24	24.23	24.04			
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0	
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0	
100	QPSK	135	138	24.08	24.22	24.13	25.0	0.0	
100	QPSK	270	0	24.11	24.14	24.10	25.0	0.0	
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0	
100	16QAM	1	1	22.15	22.17	22.17	22.5	2.5	
100	256QAM	1	1	20.12	20.18	20.16	20.5	4.5	
Channel				649598	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.24	24.11	23.92	25.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	24.14	24.04	23.84	25.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3971.51			
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0	



Part270 n78 Main PA Ant2 DS15									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		22.61				
100	PI2 BPSK	1	137		22.53			0.0	
100	PI2 BPSK	1	271		22.58				
100	PI2 BPSK	135	0		22.13			22.2	0.5
100	PI2 BPSK	135	69		22.51			22.7	0.0
100	PI2 BPSK	135	138		22.05			22.2	0.5
100	PI2 BPSK	270	0		22.07				
100	QPSK	1	1		22.63				
100	QPSK	1	137		22.49			22.7	0.0
100	QPSK	1	271		22.42				
100	QPSK	135	0		21.59			21.7	1.0
100	QPSK	135	69		22.38			22.7	0.0
100	QPSK	135	138		21.47			21.7	1.0
100	QPSK	270	0		21.51				
100	16QAM	1	1		21.14			21.7	1.0
100	64QAM	1	1		19.88			20.2	2.5
100	256QAM	1	1		18.14			18.2	4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.45	22.52	22.48	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3745.01	3750	3750.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.55	22.47	22.39	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3720.02	3725	3730.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.42	22.49	22.57	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.57	22.53	22.42	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3745.02	3750	3762.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.51	22.43	22.57	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.43	22.56	22.38	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3707.53	3750	3722.51	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.54	22.55	22.45	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.53	22.57	22.55	Tune-up limit (dBm)	MPR (dB)	

Part270 n78 PC2 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		24.44				
100	PI2 BPSK	1	137		24.44			25.0	0.0
100	PI2 BPSK	1	271		24.21				
100	PI2 BPSK	135	0		24.16			24.5	0.5
100	PI2 BPSK	135	69		24.47			25.0	0.0
100	PI2 BPSK	135	138		24.02			24.5	0.5
100	PI2 BPSK	270	0		24.01				
100	QPSK	1	1		24.48				
100	QPSK	1	137		24.40			25.0	0.0
100	QPSK	1	271		24.18				
100	QPSK	135	0		23.61			24.0	1.0
100	QPSK	135	69		24.43			25.0	0.0
100	QPSK	135	138		23.48			24.0	1.0
100	QPSK	270	0		23.61				
100	16QAM	1	1		23.28			24.0	1.0
100	64QAM	1	1		21.24			22.5	2.5
100	256QAM	1	1		20.18			20.5	4.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.41	24.38	24.40	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.35	24.42	24.34	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.34	24.23	24.32	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.44	24.48	24.42	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.33	24.27	24.42	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.43	24.34	24.34	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.40	24.24	24.48	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3707.53	3750	3722.51	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.40	24.40	24.44	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.42	24.29	24.30	Tune-up limit (dBm)	MPR (dB)	



Part270 n77 Main PA Ant3 DSI5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000	650000	650000	
Frequency (MHz)				3760	3840	3930	
100	PI2 BPSK	1	1	19.30	19.54	19.53	
100	PI2 BPSK	1	137	19.20	19.85	19.46	
100	PI2 BPSK	1	271	19.32	19.58	19.52	20.9
100	PI2 BPSK	135	0	19.42	19.29	19.49	20.9
100	PI2 BPSK	135	69	19.23	19.53	19.44	20.9
100	PI2 BPSK	135	138	19.22	19.56	19.42	20.9
100	PI2 BPSK	270	0	19.40	19.82	19.37	
100	QPSK	1	1	19.40	19.58	19.57	
100	QPSK	1	137	19.25	19.54	19.48	20.9
100	QPSK	1	271	19.39	19.65	19.50	
100	QPSK	135	0	19.22	19.48	19.53	20.9
100	QPSK	135	69	19.22	19.86	19.46	20.9
100	QPSK	135	138	19.32	19.54	19.49	
100	QPSK	270	0	19.40	19.85	19.49	20.9
100	16QAM	1	1	19.34	19.57	19.48	20.9
100	16QAM	1	1	19.39	19.61	19.58	20.9
100	256QAM	1	1	19.28	19.51	19.39	20.9
Channel				650000	650000	650000	
Frequency (MHz)				3745.02	3840	3935.01	
90	QPSK	1	1	19.38	19.58	19.53	20.9
Channel				649334	650000	662668	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	19.29	19.61	19.54	20.9
Channel				649000	650000	663000	
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	19.29	19.50	19.43	20.9
Channel				648668	650000	663334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	19.22	19.83	19.40	20.9
Channel				648334	650000	663668	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	19.41	19.61	19.36	20.9
Channel				645000	650000	664000	
Frequency (MHz)				3720	3840	3960	
40	QPSK	1	1	19.40	19.58	19.50	20.9
Channel				647668	650000	664334	
Frequency (MHz)				3715.02	3840	3975.01	
30	QPSK	1	1	19.40	19.50	19.51	20.9
Channel				647334	650000	664668	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	19.25	19.65	19.37	20.9
Channel				647188	650000	664834	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	19.19	19.54	19.53	20.9
Channel				647000	650000	665000	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	19.30	19.51	19.40	20.9

Part270 n77 PC2 Main PA Ant3 DSI5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000	650000	650000	
Frequency (MHz)				3760	3840	3930	
100	PI2 BPSK	1	1	22.19	22.57	22.30	
100	PI2 BPSK	1	137	22.21	22.43	22.27	
100	PI2 BPSK	1	271	22.08	22.52	22.18	23.9
100	PI2 BPSK	135	0	22.23	22.39	22.27	23.9
100	PI2 BPSK	135	69	22.24	22.45	22.14	23.9
100	PI2 BPSK	135	138	22.10	22.51	22.31	23.9
100	PI2 BPSK	270	0	22.16	22.40	22.14	
100	QPSK	1	1	22.25	22.56	22.31	
100	QPSK	1	137	22.12	22.45	22.31	23.9
100	QPSK	1	271	22.11	22.55	22.25	
100	QPSK	135	0	22.23	22.56	22.21	23.9
100	QPSK	135	69	22.03	22.40	22.32	23.9
100	QPSK	135	138	22.16	22.47	22.31	
100	QPSK	270	0	22.05	22.38	22.14	23.9
100	16QAM	1	1	22.17	22.56	22.21	23.9
100	16QAM	1	1	22.01	22.38	22.11	23.9
100	256QAM	1	1	22.05	22.38	22.31	23.9
Channel				649668	650000	663334	
Frequency (MHz)				3745.02	3840	3935.01	
90	QPSK	1	1	22.16	22.54	22.29	23.9
Channel				649334	650000	662668	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	22.20	22.43	22.27	23.9
Channel				649000	650000	663000	
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	22.18	22.45	22.32	23.9
Channel				648668	650000	663334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	22.13	22.40	22.23	23.9
Channel				648334	650000	663668	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	22.22	22.41	22.17	23.9
Channel				645000	650000	664000	
Frequency (MHz)				3720	3840	3960	
40	QPSK	1	1	22.05	22.41	22.14	23.9
Channel				647668	650000	664334	
Frequency (MHz)				3715.02	3840	3975.01	
30	QPSK	1	1	22.17	22.54	22.12	23.9
Channel				647334	650000	664668	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	22.07	22.56	22.10	23.9
Channel				647188	650000	664834	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	22.20	22.38	22.24	23.9
Channel				647000	650000	665000	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	22.17	22.45	22.13	23.9



Part270 n78 Main PA Ant3 DSI5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	MPR (dB)
Channel				3750	3750	3750	
Frequency (MHz)							
100	PI/2 BPSK	1	1	18.91	18.91	18.91	
100	PI/2 BPSK	1	137	18.98	18.98	18.98	20.9
100	PI/2 BPSK	1	271	18.97	18.97	18.97	20.9
100	PI/2 BPSK	135	0	18.95	18.95	18.95	20.9
100	PI/2 BPSK	135	69	18.91	18.91	18.91	20.9
100	PI/2 BPSK	135	138	18.98	18.98	18.98	20.9
100	PI/2 BPSK	270	0	19.03	19.03	19.03	20.9
100	QPSK	1	1	19.09	19.09	19.09	20.9
100	QPSK	1	137	19.08	19.08	19.08	20.9
100	QPSK	1	271	18.95	18.95	18.95	20.9
100	QPSK	135	0	19.02	19.02	19.02	20.9
100	QPSK	135	69	19.05	19.05	19.05	20.9
100	QPSK	135	138	19.00	19.00	19.00	20.9
100	QPSK	270	0	19.02	19.02	19.02	20.9
100	16QAM	1	1	19.02	19.02	19.02	20.9
100	64QAM	1	1	19.02	19.02	19.02	20.9
100	256QAM	1	1	19.08	19.08	19.08	20.9
Channel				64968	65000	65034	MPR
Frequency (MHz)				3745.02	3750	3755.01	
90	QPSK	1	1	18.94	19.01	19.06	20.9
Channel				64934	65000	65068	MPR
Frequency (MHz)				3740.01	3750	3760.02	
80	QPSK	1	1	19.02	19.02	19.03	20.9
Channel				64900	65000	65100	MPR
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	19.02	19.01	19.02	20.9
Channel				64868	65000	65134	MPR
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	1	18.92	19.02	19.07	20.9
Channel				64834	65000	65168	MPR
Frequency (MHz)				3725.01	3750	3775.02	
50	QPSK	1	1	18.97	18.93	19.02	20.9
Channel				64800	65000	65200	MPR
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	19.03	18.99	18.93	20.9
Channel				64768	65000	65234	MPR
Frequency (MHz)				3715.02	3750	3785.01	
30	QPSK	1	1	19.02	18.94	19.01	20.9
Channel				64734	65000	65268	MPR
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	1	19.02	19.03	18.96	20.9
Channel				64700	65000	65300	MPR
Frequency (MHz)				3707.52	3750	3792.54	
15	QPSK	1	1	19.02	18.98	18.94	20.9
Channel				64700	65000	65300	MPR
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	1	18.99	18.98	19.02	20.9

Part270 n78 PC2 Main PA Ant3 DSI5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	MPR (dB)
Channel				3750	3750	3750	
Frequency (MHz)							
100	PI/2 BPSK	1	1	22.09	22.09	22.09	
100	PI/2 BPSK	1	137	22.05	22.05	22.05	23.9
100	PI/2 BPSK	1	271	22.08	22.08	22.08	23.9
100	PI/2 BPSK	135	0	22.11	22.11	22.11	23.9
100	PI/2 BPSK	135	69	22.08	22.08	22.08	23.9
100	PI/2 BPSK	135	138	22.12	22.12	22.12	23.9
100	PI/2 BPSK	270	0	22.14	22.14	22.14	23.9
100	QPSK	1	1	22.19	22.19	22.19	23.9
100	QPSK	1	137	22.01	22.01	22.01	23.9
100	QPSK	1	271	22.10	22.10	22.10	23.9
100	QPSK	135	0	22.05	22.05	22.05	23.9
100	QPSK	135	69	22.15	22.15	22.15	23.9
100	QPSK	135	138	22.08	22.08	22.08	23.9
100	QPSK	270	0	22.11	22.11	22.11	23.9
100	16QAM	1	1	21.99	21.99	21.99	23.9
100	64QAM	1	1	22.11	22.11	22.11	23.9
100	256QAM	1	1	22.05	22.05	22.05	23.9
Channel				64968	65000	65034	MPR
Frequency (MHz)				3745.02	3750	3755.01	
90	QPSK	1	1	22.11	22.15	22.04	23.9
Channel				64934	65000	65068	MPR
Frequency (MHz)				3740.01	3750	3760.02	
80	QPSK	1	1	22.15	22.16	22.15	23.9
Channel				64900	65000	65100	MPR
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	22.11	22.01	21.98	23.9
Channel				64868	65000	65134	MPR
Frequency (MHz)				3730.02	3750	3770.01	
60	QPSK	1	1	22.12	22.08	21.97	23.9
Channel				64834	65000	65168	MPR
Frequency (MHz)				3725.01	3750	3775.02	
50	QPSK	1	1	22.12	22.15	22.13	23.9
Channel				64800	65000	65200	MPR
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	22.11	22.15	22.10	23.9
Channel				64768	65000	65234	MPR
Frequency (MHz)				3715.02	3750	3785.01	
30	QPSK	1	1	22.03	22.11	22.14	23.9
Channel				64734	65000	65268	MPR
Frequency (MHz)				3710.01	3750	3790.02	
20	QPSK	1	1	22.11	22.15	21.99	23.9
Channel				64700	65000	65300	MPR
Frequency (MHz)				3707.52	3750	3792.54	
15	QPSK	1	1	21.98	22.10	22.13	23.9
Channel				64700	65000	65300	MPR
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	1	22.11	22.00	22.14	23.9



Part270 n77 Main PA Ant5 DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	22.26	22.56	22.61			
100	PI2 BPSK	1	137	22.29	22.62	22.43	23.7	0.0	
100	PI2 BPSK	1	271	22.27	22.47	22.54			
100	PI2 BPSK	135	0	22.25	22.49	22.47	23.7	0.0	
100	PI2 BPSK	135	69	22.35	22.60	22.44	23.7	0.0	
100	PI2 BPSK	135	138	22.23	22.50	22.52	23.7	0.0	
100	PI2 BPSK	270	0	22.43	22.61	22.52			
100	QPSK	1	1	22.42	22.66	22.64			
100	QPSK	1	137	22.38	22.63	22.52	23.7	0.0	
100	QPSK	1	271	22.28	22.63	22.44			
100	QPSK	135	0	22.21	22.54	22.53	23.7	0.0	
100	QPSK	135	69	22.43	22.64	22.54	23.7	0.0	
100	QPSK	135	138	22.40	22.60	22.62	23.7	0.0	
100	QPSK	270	0	22.40	22.60	22.58			
100	16QAM	1	1	22.23	22.61	22.63	23.7	0.0	
100	16QAM	1	1	22.21	22.46	22.55	23.7	0.0	
100	256QAM	1	1	22.28	22.60	22.64	23.7	0.0	
Channel				64956	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.30	22.62	22.55	23.7	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.37	22.49	22.50	23.7	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.37	22.44	22.55	23.7	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.41	22.62	22.46	23.7	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.25	22.64	22.63	23.7	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.44	22.63	22.55	23.7	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.25	22.63	22.56	23.7	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.24	22.50	22.46	23.7	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	22.42	22.58	22.47	23.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.38	22.50	22.61	23.7	0.0	

Part270 n77 PC2 Main PA Ant5 DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	25.20	25.42	25.29			
100	PI2 BPSK	1	137	25.24	25.40	25.21	26.7	0.0	
100	PI2 BPSK	1	271	25.25	25.35	25.36			
100	PI2 BPSK	135	0	25.38	25.56	25.29	26.7	0.0	
100	PI2 BPSK	135	69	25.41	25.51	25.22	26.7	0.0	
100	PI2 BPSK	135	138	25.30	25.40	25.16	26.7	0.0	
100	PI2 BPSK	270	0	25.33	25.59	25.34			
100	QPSK	1	1	25.41	25.62	25.35			
100	QPSK	1	137	25.43	25.50	25.28	26.7	0.0	
100	QPSK	1	271	25.28	25.42	25.15			
100	QPSK	135	0	25.42	25.54	25.29	26.7	0.0	
100	QPSK	135	69	25.27	25.60	25.30	26.7	0.0	
100	QPSK	135	138	25.32	25.45	25.34	26.7	0.0	
100	QPSK	270	0	25.26	25.59	25.34			
100	16QAM	1	1	25.41	25.43	25.23	26.7	0.0	
100	16QAM	1	1	24.77	24.87	24.88	26.2	0.5	
100	256QAM	1	1	21.00	21.33	21.20	22.7	4.0	
Channel				64956	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.40	25.49	25.33	26.7	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.35	25.59	25.15	26.7	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	25.27	25.61	25.22	26.7	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.20	25.50	25.30	26.7	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.38	25.53	25.14	26.7	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.27	25.59	25.27	26.7	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.25	25.61	25.19	26.7	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.39	25.59	25.24	26.7	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	25.33	25.54	25.30	26.7	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	25.24	25.46	25.24	26.7	0.0	



Part270 n78 Main PA Ant5 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		22.43				
100	PI2 BPSK	1	137		22.47				
100	PI2 BPSK	1	271		22.44		23.7	0.0	
100	PI2 BPSK	135	0		22.58		23.7	0.0	
100	PI2 BPSK	135	69		22.59		23.7	0.0	
100	PI2 BPSK	135	138		22.58		23.7	0.0	
100	PI2 BPSK	270	0		22.56		23.7	0.0	
100	QPSK	1	1		22.41		23.7	0.0	
100	QPSK	1	137		22.45				
100	QPSK	1	271		22.58				
100	QPSK	135	0		22.41		23.7	0.0	
100	QPSK	135	69		22.60		23.7	0.0	
100	QPSK	135	138		22.56		23.7	0.0	
100	QPSK	270	0		22.43		23.7	0.0	
100	16QAM	1	1		22.55		23.7	0.0	
100	64QAM	1	1		22.20		23.7	0.0	
100	256QAM	1	1		20.79		22.2	1.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.55	22.48	22.48	23.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.52	22.45	22.47	23.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.53	22.41	22.41	23.7	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.48	22.51	22.58	23.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.42	22.52	22.44	23.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.47	22.59	22.53	23.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1		22.42	22.53	22.52	23.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.41	22.43	22.45	23.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.53	3750	3828.51			
15	QPSK	1	1		22.48	22.55	22.51	23.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.57	22.56	22.44	23.7	0.0

Part270 n78 PC2 Main PA Ant5 DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1		25.48				
100	PI2 BPSK	1	137		25.52				
100	PI2 BPSK	1	271		25.43		26.7	0.0	
100	PI2 BPSK	135	0		25.43		26.7	0.0	
100	PI2 BPSK	135	69		25.40		26.7	0.0	
100	PI2 BPSK	135	138		25.54		26.7	0.0	
100	PI2 BPSK	270	0		25.55		26.7	0.0	
100	QPSK	1	1		25.61				
100	QPSK	1	137		25.54		26.7	0.0	
100	QPSK	1	271		25.42				
100	QPSK	135	0		25.40		26.7	0.0	
100	QPSK	135	69		25.58		26.7	0.0	
100	QPSK	135	138		25.50		26.7	0.0	
100	QPSK	270	0		25.54		26.7	0.0	
100	16QAM	1	1		25.46		26.7	0.0	
100	64QAM	1	1		24.34		25.7	1.0	
100	256QAM	1	1		22.97		24.2	2.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.48	25.41	25.54	26.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.47	25.44	25.45	26.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.42	25.50	25.51	26.7	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		25.48	25.40	25.57	26.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.45	25.45	25.48	26.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.40	25.54	25.60	26.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1		25.58	25.56	25.55	26.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.46	25.58	25.43	26.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.53	3750	3828.51			
15	QPSK	1	1		25.60	25.43	25.43	26.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.45	25.59	25.54	26.7	0.0



Reduced Power Mode for Main PA n77&78 DS16

Part270 n77 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	21.09	21.35	21.24			
100	PI/2 BPSK	1	137	21.08	21.29	21.24	23.0	0.0	
100	PI/2 BPSK	1	271	21.06	21.11	21.05			
100	PI/2 BPSK	135	0	21.21	21.28	21.05	23.0	0.0	
100	PI/2 BPSK	135	69	21.05	21.17	21.14	23.0	0.0	
100	PI/2 BPSK	135	138	21.04	21.13	21.05	23.0	0.0	
100	PI/2 BPSK	270	0	21.01	21.14	21.05			
100	QPSK	1	1	21.28	21.35	21.18			
100	QPSK	1	137	21.10	21.14	21.03	23.0	0.0	
100	QPSK	1	271	21.01	21.01	21.01			
100	QPSK	135	0	21.05	21.08	21.03	23.0	0.0	
100	QPSK	135	69	21.12	21.25	21.02	23.0	0.0	
100	QPSK	135	138	21.03	21.10	21.01			
100	QPSK	270	0	21.13	21.24	21.15	23.0	0.0	
100	16QAM	1	1	21.14	21.19	21.05	23.0	0.0	
100	64QAM	1	1	21.23	21.35	21.30	23.0	0.0	
100	256QAM	1	1	20.35	20.42	20.28	22.0	1.0	
Channel				648688	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.11	21.25	21.09	23.0	0.0	
Channel				648334	650000	662688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3840	3940.02			
80	QPSK	1	1	21.26	21.23	21.10	23.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.23	21.26	21.05	23.0	0.0	
Channel				648688	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.08	21.18	21.10	23.0	0.0	
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.17	21.28	21.03	23.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.24	21.25	21.02	23.0	0.0	
Channel				647868	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.04	21.20	21.01	23.0	0.0	
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.14	21.23	21.14	23.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.20	21.11	21.15	23.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.02	21.20	21.07	23.0	0.0	

Part270 n77 PC2 Main PA Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	23.57	23.77	23.39			
100	PI/2 BPSK	1	137	23.49	23.68	23.31	25.0	0.0	
100	PI/2 BPSK	1	271	23.57	23.69	23.30			
100	PI/2 BPSK	135	0	23.50	23.71	23.19	24.5	0.5	
100	PI/2 BPSK	135	69	23.64	23.62	23.24	25.0	0.0	
100	PI/2 BPSK	135	138	23.47	23.56	23.09	24.5	0.5	
100	PI/2 BPSK	270	0	23.40	23.57	23.11			
100	QPSK	1	1	24.08	24.16	23.75			
100	QPSK	1	137	23.53	23.64	23.18	25.0	0.0	
100	QPSK	1	271	23.49	23.68	23.39			
100	QPSK	135	0	23.48	23.59	23.09	24.0	1.0	
100	QPSK	135	69	24.08	24.15	23.77	25.0	0.0	
100	QPSK	135	138	23.41	23.48	22.97	24.0	1.0	
100	QPSK	270	0	23.46	23.66	23.29			
100	16QAM	1	1	23.39	23.48	23.01	24.0	1.0	
100	64QAM	1	1	21.61	21.75	21.40	22.5	2.5	
100	256QAM	1	1	20.10	20.10	19.84	20.5	4.5	
Channel				648688	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.98	24.06	23.82	25.0	0.0	
Channel				648334	650000	662688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3840	3940.02			
80	QPSK	1	1	23.98	24.14	23.79	25.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.94	24.09	23.87	25.0	0.0	
Channel				648688	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.88	24.11	23.78	25.0	0.0	
Channel				648334	656000	663688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.03	24.12	23.88	25.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.02	24.13	23.84	25.0	0.0	
Channel				647868	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.97	23.96	23.82	25.0	0.0	
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.08	24.01	23.82	25.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.97	24.00	23.77	25.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.90	24.14	23.75	25.0	0.0	





**Part270 n78 Main PA Ant1**

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	21.85	21.85	21.85	23.0	0.0
100	PI/2 BPSK	1	137	21.85	21.85	21.85	23.0	0.0
100	PI/2 BPSK	1	271	21.85	21.85	21.85	23.0	0.0
100	PI/2 BPSK	135	0	21.84	21.84	21.84	22.5	0.5
100	PI/2 BPSK	135	69	21.86	21.86	21.86	23.0	0.0
100	PI/2 BPSK	135	138	21.83	21.83	21.83	22.5	0.5
100	PI/2 BPSK	270	0	21.87	21.87	21.87	22.5	0.5
100	QPSK	1	1	21.70	21.70	21.70	23.0	0.0
100	QPSK	1	137	21.59	21.59	21.59	23.0	0.0
100	QPSK	1	271	21.58	21.58	21.58	23.0	0.0
100	QPSK	135	0	21.48	21.48	21.48	22.0	1.0
100	QPSK	135	69	21.96	21.96	21.96	23.0	0.0
100	QPSK	135	138	21.59	21.59	21.59	22.0	1.0
100	QPSK	270	0	21.37	21.37	21.37	22.0	1.0
100	16QAM	1	1	20.21	20.21	20.21	22.0	1.0
100	64QAM	1	1	19.28	19.28	19.28	20.5	2.5
100	256QAM	1	1	17.41	17.41	17.41	18.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.53	21.60	21.54	23.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.58	21.67	21.53	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.85	21.52	21.57	23.0	0.0
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.59	21.58	21.51	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3725.02		
50	QPSK	1	1	21.63	21.48	21.48	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.55	21.59	21.53	23.0	0.0
Channel				647000	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	21.68	21.68	21.58	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	21.49	21.47	21.62	23.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3762.51		
15	QPSK	1	1	21.63	21.55	21.61	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3765		
10	QPSK	1	1	21.50	21.48	21.68	23.0	0.0

**Part270 n78 PC2 Main PA Ant1**

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	24.14	24.14	24.14	25.0	0.0
100	PI/2 BPSK	1	137	24.12	24.12	24.12	25.0	0.0
100	PI/2 BPSK	1	271	24.02	24.02	24.02	25.0	0.0
100	PI/2 BPSK	135	0	23.87	23.87	23.87	24.5	0.5
100	PI/2 BPSK	135	69	24.09	24.09	24.09	25.0	0.0
100	PI/2 BPSK	135	138	24.01	24.01	24.01	24.5	0.5
100	PI/2 BPSK	270	0	23.96	23.96	23.96	24.5	0.5
100	QPSK	1	1	24.15	24.15	24.15	25.0	0.0
100	QPSK	1	137	23.93	23.93	23.93	25.0	0.0
100	QPSK	1	271	23.97	23.97	23.97	25.0	0.0
100	QPSK	135	0	23.62	23.62	23.62	24.0	1.0
100	QPSK	135	69	23.98	23.98	23.98	25.0	0.0
100	QPSK	135	138	23.28	23.28	23.28	24.0	1.0
100	QPSK	270	0	23.51	23.51	23.51	24.0	1.0
100	16QAM	1	1	22.94	22.94	22.94	24.0	1.0
100	64QAM	1	1	20.68	20.68	20.68	22.5	2.5
100	256QAM	1	1	18.67	18.67	18.67	20.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.95	24.04	24.07	25.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.04	23.98	23.90	25.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	24.05	24.00	23.99	25.0	0.0
Channel				649668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.99	24.06	23.99	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3725.02		
50	QPSK	1	1	23.96	23.96	24.06	25.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	24.08	24.05	23.89	25.0	0.0
Channel				647000	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	23.99	23.99	23.91	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3760.02		
20	QPSK	1	1	23.95	23.94	23.99	25.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3762.51		
15	QPSK	1	1	23.85	23.87	24.04	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3765		
10	QPSK	1	1	24.03	24.03	23.85	25.0	0.0



Part270 n77 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	21.42	21.53	21.43			
100	PI2 BPSK	1	137	21.56	21.59	21.39	23.0	0.0	
100	PI2 BPSK	1	271	21.46	21.54	21.41			
100	PI2 BPSK	135	0	21.40	21.55	21.34	23.0	0.0	
100	PI2 BPSK	135	69	21.42	21.59	21.58	23.0	0.0	
100	PI2 BPSK	135	138	21.45	21.61	21.43	23.0	0.0	
100	PI2 BPSK	270	0	21.43	21.57	21.58			
100	QPSK	1	1	21.52	21.64	21.41			
100	QPSK	1	137	21.30	21.51	21.37	23.0	0.0	
100	QPSK	1	271	21.47	21.57	21.48			
100	QPSK	135	0	21.38	21.53	21.39	23.0	0.0	
100	QPSK	135	69	21.49	21.56	21.37	23.0	0.0	
100	QPSK	135	138	21.36	21.55	21.37	23.0	0.0	
100	QPSK	270	0	21.45	21.53	21.35	23.0	0.0	
100	16QAM	1	1	21.53	21.52	21.49	23.0	0.0	
100	64QAM	1	1	21.30	21.52	21.35	23.0	0.0	
100	256QAM	1	1	20.67	20.71	20.54	22.0	1.0	
Channel				649598	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	1	21.50	21.40	21.41	23.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	1	21.37	21.39	21.41	23.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	1	21.48	21.46	21.41	23.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	1	21.49	21.48	21.40	23.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	1	21.45	21.52	21.33	23.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	21.47	21.35	21.38	23.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	21.43	21.41	21.45	23.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	21.50	21.34	21.51	23.0	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	21.45	21.43	21.47	23.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	21.42	21.37	21.45	23.0	0.0	

Part270 n77 PC2 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	24.18	24.21	24.01			
100	PI2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0	
100	PI2 BPSK	1	271	24.27	24.30	24.23			
100	PI2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0	
100	PI2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0	
100	PI2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0	
100	PI2 BPSK	270	0	24.13	24.17	24.12			
100	QPSK	1	1	24.31	24.40	24.23			
100	QPSK	1	137	24.13	24.24	24.21	25.0	0.0	
100	QPSK	1	271	24.24	24.23	24.04			
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0	
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0	
100	QPSK	135	138	24.08	24.22	24.13	25.0	0.0	
100	QPSK	270	0	24.11	24.14	24.10			
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0	
100	64QAM	1	1	22.25	22.27	22.27	22.5	2.5	
100	256QAM	1	1	20.20	20.23	20.20	20.5	4.5	
Channel				649598	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
80	QPSK	1	1	24.24	24.11	23.92	25.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	24.14	24.04	23.84	25.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0	



Part270 n78 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		22.61				
100	PI2 BPSK	1	137		22.53			0.0	
100	PI2 BPSK	1	271		22.56				
100	PI2 BPSK	135	0		22.13			22.5	0.5
100	PI2 BPSK	135	69		22.51			23.0	0.0
100	PI2 BPSK	135	138		22.05			22.5	0.5
100	PI2 BPSK	270	0		22.07			23.0	0.0
100	QPSK	1	1		22.23				
100	QPSK	1	137		22.49			23.0	0.0
100	QPSK	1	271		22.42				
100	QPSK	135	0		21.59			22.0	1.0
100	QPSK	135	69		22.38			23.0	0.0
100	QPSK	135	138		21.47			22.0	1.0
100	QPSK	270	0		21.51				
100	16QAM	1	1		21.14			22.0	1.0
100	64QAM	1	1		19.88			20.5	2.5
100	256QAM	1	1		18.44			18.5	4.5
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.45	22.52	22.48	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.39	22.44	22.82	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.55	22.47	22.39	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.42	22.49	22.57	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.57	22.53	22.42	23.0	0.0
Channel				647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
40	QPSK	1	1		22.51	22.43	22.57	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.43	22.56	22.38	23.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	1		22.54	22.55	22.45	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.53	22.57	22.55	23.0	0.0

Part270 n78 PC2 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		24.44				
100	PI2 BPSK	1	137		24.44			25.0	0.0
100	PI2 BPSK	1	271		24.21				
100	PI2 BPSK	135	0		24.16			24.5	0.5
100	PI2 BPSK	135	69		24.47			25.0	0.0
100	PI2 BPSK	135	138		24.02			24.5	0.5
100	PI2 BPSK	270	0		24.01			25.0	0.0
100	QPSK	1	1		24.48				
100	QPSK	1	137		24.40			25.0	0.0
100	QPSK	1	271		24.18				
100	QPSK	135	0		23.71			24.0	1.0
100	QPSK	135	69		24.43			25.0	0.0
100	QPSK	135	138		23.48			24.0	1.0
100	QPSK	270	0		23.61				
100	16QAM	1	1		23.28			24.0	1.0
100	64QAM	1	1		21.24			22.5	2.5
100	256QAM	1	1		20.28			20.5	4.5
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		24.41	24.38	24.40	25.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		24.35	24.42	24.31	25.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		24.34	24.23	24.32	25.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		24.44	24.48	24.42	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		24.33	24.27	24.42	25.0	0.0
Channel				647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		24.43	24.34	24.34	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		24.27	24.28	24.23	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		24.40	24.24	24.48	25.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3792.51			
15	QPSK	1	1		24.40	24.40	24.44	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		24.42	24.29	24.30	25.0	0.0



Part270 n77 Main PA Ant3 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	20.08	20.12	20.15			
100	PI2 BPSK	1	137	20.08	20.05	20.08	21.1	0.0	
100	PI2 BPSK	1	271	19.91	20.19	20.20			
100	PI2 BPSK	135	0	20.07	20.12	20.20	21.1	0.0	
100	PI2 BPSK	135	69	20.01	20.19	20.16	21.1	0.0	
100	PI2 BPSK	135	138	20.03	20.07	20.03	21.1	0.0	
100	PI2 BPSK	270	0	20.08	20.08	20.19			
100	QPSK	1	1	19.92	20.20	19.97			
100	QPSK	1	137	20.01	20.08	20.12	21.1	0.0	
100	QPSK	1	271	20.07	20.12	20.08			
100	QPSK	135	0	20.00	20.12	20.05	21.1	0.0	
100	QPSK	135	69	19.88	20.20	20.18	21.1	0.0	
100	QPSK	135	138	20.05	20.08	20.12	21.1	0.0	
100	QPSK	270	0	20.03	20.17	20.07			
100	16QAM	1	1	20.01	20.13	20.12	21.1	0.0	
100	64QAM	1	1	20.07	20.14	20.04	21.1	0.0	
100	256QAM	1	1	19.88	20.17	20.06	21.1	0.0	
Channel				64959	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.02	20.12	20.17	21.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.02	20.13	20.04	21.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.93	20.08	19.98	21.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.91	20.15	20.01	21.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.03	20.08	20.19	21.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.88	20.18	20.15	21.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.20	20.05	20.05	21.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.93	20.09	20.04	21.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	20.08	20.05	20.08	21.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.07	20.05	20.07	21.1	0.0	

Part270 n77 PC2 Main PA Ant3 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	22.66	22.80	22.84			
100	PI2 BPSK	1	137	22.77	22.82	22.72	24.1	0.0	
100	PI2 BPSK	1	271	22.76	22.89	22.85			
100	PI2 BPSK	135	0	22.71	22.83	22.84	24.1	0.0	
100	PI2 BPSK	135	69	22.75	22.88	22.80	24.1	0.0	
100	PI2 BPSK	135	138	22.68	22.83	22.83	24.1	0.0	
100	PI2 BPSK	270	0	22.79	22.83	22.84			
100	QPSK	1	1	22.65	22.85	22.84			
100	QPSK	1	137	22.71	22.88	22.80	24.1	0.0	
100	QPSK	1	271	22.76	22.85	22.70			
100	QPSK	135	0	22.74	22.91	22.77	24.1	0.0	
100	QPSK	135	69	22.70	22.93	22.86	24.1	0.0	
100	QPSK	135	138	22.71	22.88	22.82	24.1	0.0	
100	QPSK	270	0	22.76	22.92	22.72			
100	16QAM	1	1	22.73	22.91	22.85	24.1	0.0	
100	64QAM	1	1	22.75	22.85	22.81	24.1	0.0	
100	256QAM	1	1	22.09	22.23	22.15	23.6	0.5	
Channel				64959	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.73	22.93	22.72	24.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.71	22.87	22.07	24.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.68	22.82	22.83	24.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.65	22.87	22.78	24.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.83	22.82	22.84	24.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.85	22.84	22.88	24.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.65	22.91	22.86	24.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.76	22.92	22.79	24.1	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	22.78	22.81	22.82	24.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.72	22.82	22.76	24.1	0.0	



Part270 n78 Main PA Ant3 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3750	3750	3750			
100	PI2 BPSK	1	1		19.33				
100	PI2 BPSK	1	137		19.48				
100	PI2 BPSK	1	271		19.43		21.1	0.0	
100	PI2 BPSK	135	0		19.47		21.1	0.0	
100	PI2 BPSK	135	69		19.33		21.1	0.0	
100	PI2 BPSK	135	138		19.35		21.1	0.0	
100	PI2 BPSK	270	0		19.37				
100	QPSK	1	1		19.55		21.1	0.0	
100	QPSK	1	137		19.51				
100	QPSK	1	271		19.32		21.1	0.0	
100	QPSK	135	0		19.32		21.1	0.0	
100	QPSK	135	69		19.52		21.1	0.0	
100	QPSK	135	138		19.45		21.1	0.0	
100	QPSK	270	0		19.44				
100	16QAM	1	1		19.50		21.1	0.0	
100	64QAM	1	1		19.54		21.1	0.0	
100	256QAM	1	1		19.54		21.1	0.0	
Channel									
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3745.02	3750	3755.01			
90	QPSK	1	1		19.32	19.35	19.34	21.1	0.0
Channel									
				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3740.01	3750	3760.02			
80	QPSK	1	1		19.49	19.47	19.42	21.1	0.0
Channel									
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3735	3750	3765			
70	QPSK	1	1		19.40	19.35	19.44	21.1	0.0
Channel									
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3730.02	3750	3750.01			
60	QPSK	1	1		19.32	19.50	19.31	21.1	0.0
Channel									
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3725.01	3750	3755.02			
50	QPSK	1	1		19.32	19.45	19.43	21.1	0.0
Channel									
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3720	3750	3780			
40	QPSK	1	1		19.41	19.52	19.32	21.1	0.0
Channel									
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3715.02	3750	3765.01			
30	QPSK	1	1		19.32	19.49	19.49	21.1	0.0
Channel									
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3710.01	3750	3790.02			
20	QPSK	1	1		19.50	19.42	19.45	21.1	0.0
Channel									
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705.53	3750	3792.51			
15	QPSK	1	1		19.51	19.33	19.44	21.1	0.0
Channel									
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705	3750	3795			
10	QPSK	1	1		19.42	19.38	19.34	21.1	0.0

Part270 n78 PC2 Main PA Ant3 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				3750	3750	3750			
100	PI2 BPSK	1	1		22.43				
100	PI2 BPSK	1	137		22.57				
100	PI2 BPSK	1	271		22.58		24.1	0.0	
100	PI2 BPSK	135	0		22.48		24.1	0.0	
100	PI2 BPSK	135	69		22.55		24.1	0.0	
100	PI2 BPSK	135	138		22.56		24.1	0.0	
100	PI2 BPSK	270	0		22.48				
100	QPSK	1	1		22.61		24.1	0.0	
100	QPSK	1	137		22.50				
100	QPSK	1	271		22.60		24.1	0.0	
100	QPSK	135	0		22.48		24.1	0.0	
100	QPSK	135	69		22.58		24.1	0.0	
100	QPSK	135	138		22.57		24.1	0.0	
100	QPSK	270	0		22.56				
100	16QAM	1	1		22.48		24.1	0.0	
100	64QAM	1	1		22.56		24.1	0.0	
100	256QAM	1	1		22.48		24.1	0.0	
Channel									
				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3745.02	3750	3755.01			
90	QPSK	1	1		22.44	22.56	22.43	24.1	0.0
Channel									
				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3740.01	3750	3760.02			
80	QPSK	1	1		22.56	22.57	22.57	24.1	0.0
Channel									
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3735	3750	3765			
70	QPSK	1	1		22.52	22.41	22.47	24.1	0.0
Channel									
				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3730.02	3750	3750.01			
60	QPSK	1	1		22.49	22.60	22.53	24.1	0.0
Channel									
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3725.01	3750	3755.02			
50	QPSK	1	1		22.51	22.46	22.57	24.1	0.0
Channel									
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3720	3750	3780			
40	QPSK	1	1		22.49	22.55	22.47	24.1	0.0
Channel									
				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3715.02	3750	3765.01			
30	QPSK	1	1		22.42	22.60	22.55	24.1	0.0
Channel									
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3710.01	3750	3790.02			
20	QPSK	1	1		22.60	22.55	22.53	24.1	0.0
Channel									
				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705.53	3750	3792.51			
15	QPSK	1	1		22.57	22.43	22.59	24.1	0.0
Channel									
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
				3705	3750	3795			
10	QPSK	1	1		22.45	22.59	22.47	24.1	0.0



Part270 n77 Ant5 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	21.81	21.87	22.03			
100	PI2 BPSK	1	137	21.85	22.03	21.91	23.0	0.0	
100	PI2 BPSK	1	271	21.77	22.06	21.96			
100	PI2 BPSK	135	0	21.71	22.04	22.06	23.0	0.0	
100	PI2 BPSK	135	69	21.78	22.07	22.02	23.0	0.0	
100	PI2 BPSK	135	138	21.77	21.88	21.84	23.0	0.0	
100	PI2 BPSK	270	0	21.89	22.08	22.00			
100	QPSK	1	1	21.89	22.09	21.96			
100	QPSK	1	137	21.73	22.05	21.90	23.0	0.0	
100	QPSK	1	271	21.72	21.90	21.93			
100	QPSK	135	0	21.72	21.95	21.90	23.0	0.0	
100	QPSK	135	69	21.67	22.09	22.03	23.0	0.0	
100	QPSK	135	138	21.73	22.07	22.04	23.0	0.0	
100	QPSK	270	0	21.90	21.98	21.84			
100	16QAM	1	1	21.81	21.88	22.06	23.0	0.0	
100	16QAM	1	1	21.79	21.91	21.93	23.0	0.0	
100	256QAM	1	1	21.77	21.95	22.07	23.0	0.0	
Channel				649598	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.84	21.95	21.96	23.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.75	21.99	22.03	23.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.78	22.04	22.07	23.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.85	21.92	21.96	23.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.71	22.07	21.95	23.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.83	22.03	21.99	23.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.85	21.95	21.93	23.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.78	22.03	21.91	23.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	21.87	21.90	21.89	23.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.90	21.97	21.96	23.0	0.0	

Part270 n77 PC2 Ant5 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	24.83	24.90	24.82			
100	PI2 BPSK	1	137	24.85	25.02	24.74	26.0	0.0	
100	PI2 BPSK	1	271	24.87	25.02	24.69			
100	PI2 BPSK	135	0	24.84	24.91	24.83	26.0	0.0	
100	PI2 BPSK	135	69	24.76	24.96	24.82	26.0	0.0	
100	PI2 BPSK	135	138	24.80	24.87	24.78	26.0	0.0	
100	PI2 BPSK	270	0	24.71	24.90	24.80			
100	QPSK	1	1	24.90	25.08	24.69			
100	QPSK	1	137	24.85	25.08	24.82	26.0	0.0	
100	QPSK	1	271	24.78	24.89	24.73			
100	QPSK	135	0	24.70	25.01	24.81	26.0	0.0	
100	QPSK	135	69	24.84	25.02	24.76	26.0	0.0	
100	QPSK	135	138	24.77	24.88	24.80	26.0	0.0	
100	QPSK	270	0	24.88	24.97	24.80			
100	16QAM	1	1	24.74	25.03	24.80	26.0	0.0	
100	16QAM	1	1	24.72	24.99	24.80	26.0	0.0	
100	256QAM	1	1	24.18	24.42	24.26	22.5	3.5	
Channel				649598	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.86	24.91	24.86	26.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.83	25.05	24.14	26.0	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.86	24.92	24.83	26.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.87	24.90	24.81	26.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.87	25.06	24.84	26.0	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	24.87	24.92	24.76	26.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	24.82	24.90	24.66	26.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.87	25.03	24.84	26.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3975.51			
15	QPSK	1	1	24.77	24.88	24.65	26.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.71	25.06	24.81	26.0	0.0	



Part270 n78 Ant5 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	22.04					
100	PI2 BPSK	1	137	22.03					0.0
100	PI2 BPSK	1	271	22.08					
100	PI2 BPSK	135	0	21.90			23.0	0.0	
100	PI2 BPSK	135	69	22.01			23.0	0.0	
100	PI2 BPSK	135	138	21.97			23.0	0.0	
100	PI2 BPSK	270	0	22.07					
100	QPSK	1	1	22.08					
100	QPSK	1	137	21.95			23.0	0.0	
100	QPSK	1	271	21.97					
100	QPSK	135	0	21.96			23.0	0.0	
100	QPSK	135	69	22.04			23.0	0.0	
100	QPSK	135	138	22.01			23.0	0.0	
100	QPSK	270	0	21.95					
100	16QAM	1	1	22.08			23.0	0.0	
100	64QAM	1	1	21.87			23.0	0.0	
100	256QAM	1	1	21.93			23.0	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	21.98	21.99	21.98	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.07	21.94	21.89	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.02	22.01	22.02	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3730.01			
60	QPSK	1	1	22.05	21.94	21.89	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1	22.07	22.03	21.89	23.0	0.0	
Channel				647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
40	QPSK	1	1	21.93	22.04	21.96	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3720.01			
30	QPSK	1	1	21.92	22.08	22.07	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3720.02			
20	QPSK	1	1	21.87	22.01	21.85	23.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1	21.94	22.04	21.94	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3705			
10	QPSK	1	1	21.98	21.92	22.01	23.0	0.0	

Part270 n78 PC2 Ant5 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	24.85					
100	PI2 BPSK	1	137	24.90					0.0
100	PI2 BPSK	1	271	24.90					
100	PI2 BPSK	135	0	24.98			26.0	0.0	
100	PI2 BPSK	135	69	25.02			26.0	0.0	
100	PI2 BPSK	135	138	24.86			26.0	0.0	
100	PI2 BPSK	270	0	24.87					
100	QPSK	1	1	25.08					
100	QPSK	1	137	24.86			26.0	0.0	
100	QPSK	1	271	25.02					
100	QPSK	135	0	24.91			26.0	0.0	
100	QPSK	135	69	25.06			26.0	0.0	
100	QPSK	135	138	24.98			26.0	0.0	
100	QPSK	270	0	24.98					
100	16QAM	1	1	24.89			26.0	0.0	
100	64QAM	1	1	25.01			26.0	0.0	
100	256QAM	1	1	23.09			24.0	2.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	24.94	24.86	24.93	26.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	24.90	24.89	24.93	26.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	24.90	24.93	25.07	26.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3730.01			
60	QPSK	1	1	24.96	25.01	25.03	26.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3735.02			
50	QPSK	1	1	25.05	25.04	24.85	26.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
40	QPSK	1	1	24.85	24.97	25.06	26.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3720.01			
30	QPSK	1	1	24.95	25.02	24.89	26.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3720.02			
20	QPSK	1	1	24.86	24.95	25.04	26.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1	25.03	25.00	24.89	26.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3705			
10	QPSK	1	1	24.88	25.05	24.92	26.0	0.0	



Reduced Power Mode for Main PA n77&78 DS19

Part270 n77 Main PA Ant1 DS19									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.72	18.83	18.55	19.6	0.0	
100	PI2 BPSK	1	137	18.80	18.72	18.59			
100	PI2 BPSK	1	271	18.73	18.78	18.57			
100	PI2 BPSK	135	0	18.65	18.86	18.82	19.6	0.0	
100	PI2 BPSK	135	69	18.82	18.81	18.73	19.6	0.0	
100	PI2 BPSK	135	138	18.83	18.83	18.58	19.6	0.0	
100	PI2 BPSK	270	0	18.71	18.72	18.54			
100	QPSK	1	1	18.83	18.92	18.72			
100	QPSK	1	137	18.63	18.73	18.58	19.6	0.0	
100	QPSK	1	271	18.83	18.90	18.85			
100	QPSK	135	0	18.74	18.75	18.73	19.6	0.0	
100	QPSK	135	69	18.75	18.98	18.55	19.6	0.0	
100	QPSK	135	138	18.80	18.84	18.52	19.6	0.0	
100	QPSK	270	0	18.62	18.72	18.52			
100	16QAM	1	1	18.69	18.72	18.52	19.6	0.0	
100	16QAM	1	1	18.69	18.81	18.66	19.6	0.0	
100	256QAM	1	1	18.78	18.80	18.84	19.6	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.69	18.75	18.58	19.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.75	18.76	18.69	19.6	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.75	18.85	18.55	19.6	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.72	18.79	18.57	19.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.81	18.74	18.55	19.6	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.78	18.81	18.52	19.6	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.66	18.71	18.53	19.6	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.84	18.80	18.54	19.6	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.63	18.84	18.71	19.6	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.62	18.81	18.54	19.6	0.0	

Part270 n77 PC2 Main PA Ant1 DS19									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.53	21.55	21.00			
100	PI2 BPSK	1	137	21.48	21.65	21.03	22.6	0.0	
100	PI2 BPSK	1	271	21.48	21.47	20.97			
100	PI2 BPSK	135	0	21.52	21.88	20.93	22.6	0.0	
100	PI2 BPSK	135	69	21.50	21.49	21.15	22.6	0.0	
100	PI2 BPSK	135	138	21.61	21.57	21.15	22.6	0.0	
100	PI2 BPSK	270	0	21.66	21.65	21.09			
100	QPSK	1	1	21.65	21.67	21.14			
100	QPSK	1	137	21.55	21.59	20.99	22.6	0.0	
100	QPSK	1	271	21.56	21.54	21.16			
100	QPSK	135	0	21.56	21.47	20.96	22.6	0.0	
100	QPSK	135	69	21.48	21.65	20.98	22.6	0.0	
100	QPSK	135	138	21.56	21.53	21.08	22.6	0.0	
100	QPSK	270	0	21.57	21.62	20.99			
100	16QAM	1	1	21.57	21.52	20.93	22.6	0.0	
100	16QAM	1	1	21.53	21.58	21.06	22.6	0.0	
100	256QAM	1	1	20.95	19.90	19.64	21.1	1.5	
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.48	21.54	21.02	22.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.50	21.62	21.03	22.6	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.59	21.63	21.04	22.6	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.45	21.64	20.94	22.6	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.61	21.55	20.94	22.6	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.52	21.55	20.95	22.6	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.55	21.59	20.99	22.6	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.53	21.57	21.16	22.6	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.60	21.57	21.03	22.6	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.54	21.56	21.01	22.6	0.0	





Part270 n78 Main PA Ant1 DS19										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1		19.10					
100	PI2 BPSK	1	137		19.20		19.6	0.0		
100	PI2 BPSK	1	271		19.18					
100	PI2 BPSK	135	0		19.08		19.6	0.0		
100	PI2 BPSK	135	69		19.15		19.6	0.0		
100	PI2 BPSK	135	138		19.15		19.6	0.0		
100	PI2 BPSK	270	0		19.20		19.6	0.0		
100	QPSK	1	1		19.23					
100	QPSK	1	137		19.18		19.6	0.0		
100	QPSK	1	271		19.12					
100	QPSK	135	0		19.12		19.6	0.0		
100	QPSK	135	69		19.15		19.6	0.0		
100	QPSK	135	138		19.14		19.6	0.0		
100	QPSK	270	0		19.14					
100	16QAM	1	1		19.08		19.6	0.0		
100	84QAM	1	1		19.14		19.6	0.0		
100	256QAM	1	1		17.45		17.6	2.0		
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		19.02	19.20	19.12	19.6	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		19.13	19.15	19.20	19.6	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		19.02	19.22	19.22	19.6	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		19.15	19.12	19.11	19.6	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3772.02				
50	QPSK	1	1		19.17	19.15	19.20	19.6	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		19.22	19.20	19.07	19.6	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		19.05	19.17	19.07	19.6	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		19.19	19.06	19.05	19.6	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		19.02	19.21	19.08	19.6	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		19.10	19.15	19.16	19.6	0.0	

Part270 n78 PC2 Main PA Ant1 DS19										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1		21.64					
100	PI2 BPSK	1	137		21.55		22.6	0.0		
100	PI2 BPSK	1	271		21.71					
100	PI2 BPSK	135	0		21.55		22.6	0.0		
100	PI2 BPSK	135	69		21.71		22.6	0.0		
100	PI2 BPSK	135	138		21.53		22.6	0.0		
100	PI2 BPSK	270	0		21.72					
100	QPSK	1	1		21.75					
100	QPSK	1	137		21.73		22.6	0.0		
100	QPSK	1	271		21.72					
100	QPSK	135	0		21.55		22.6	0.0		
100	QPSK	135	69		21.68		22.6	0.0		
100	QPSK	135	138		21.68		22.6	0.0		
100	QPSK	270	0		21.67					
100	16QAM	1	1		21.63		22.6	0.0		
100	84QAM	1	1		20.66		21.8	1.0		
100	256QAM	1	1		19.74		20.8	2.0		
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		21.55	21.63	21.60	22.6	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		21.60	21.73	21.62	22.6	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		21.54	21.66	21.55	22.6	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		21.62	21.65	21.58	22.6	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3772.02				
50	QPSK	1	1		21.55	21.59	21.53	22.6	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		21.64	21.61	21.67	22.6	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		21.56	21.64	21.54	22.6	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		21.70	21.68	21.69	22.6	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		21.63	21.57	21.74	22.6	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		21.62	21.55	21.72	22.6	0.0	



Part270 n77 Main PA Ant2									
BW (MHz)	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	PI2 BPSK	1	1	21.42	21.53	21.43			
100	PI2 BPSK	1	137	21.56	21.59	21.39	23.0	0.0	
100	PI2 BPSK	1	271	21.46	21.54	21.41			
100	PI2 BPSK	135	0	21.40	21.35	21.34	23.0	0.0	
100	PI2 BPSK	135	69	21.42	21.59	21.56	23.0	0.0	
100	PI2 BPSK	135	138	21.45	21.61	21.43	23.0	0.0	
100	PI2 BPSK	270	0	21.43	21.57	21.58			
100	QPSK	1	1	21.52	21.54	21.41			
100	QPSK	1	137	21.30	21.51	21.37	23.0	0.0	
100	QPSK	1	271	21.47	21.57	21.48			
100	QPSK	135	0	21.38	21.53	21.39	23.0	0.0	
100	QPSK	135	69	21.49	21.56	21.37	23.0	0.0	
100	QPSK	135	138	21.36	21.55	21.37	23.0	0.0	
100	QPSK	270	0	21.45	21.53	21.35			
100	16QAM	1	1	21.53	21.52	21.49	23.0	0.0	
100	16QAM	1	1	21.30	21.52	21.35	23.0	0.0	
100	256QAM	1	1	20.67	20.71	20.54	22.0	1.0	
Channel				643963	650000	643934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3835.01			
90	QPSK	1	1	21.50	21.40	21.41	23.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.27	21.39	21.41	23.0	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.48	21.46	21.41	23.0	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.49	21.48	21.40	23.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.45	21.32	21.33	23.0	0.0	
Channel				645000	650000	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	21.47	21.35	21.38	23.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.02	3840	3923.01			
30	QPSK	1	1	21.43	21.41	21.45	23.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.50	21.34	21.51	23.0	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.45	21.43	21.47	23.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.42	21.37	21.45	23.0	0.0	

Part270 n77 PC2 Main PA Ant2									
BW (MHz)	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	PI2 BPSK	1	1	24.18	24.21	24.01			
100	PI2 BPSK	1	137	24.17	24.24	24.25	25.0	0.0	
100	PI2 BPSK	1	271	24.27	24.30	24.23			
100	PI2 BPSK	135	0	24.02	24.21	24.11	25.0	0.0	
100	PI2 BPSK	135	69	23.99	24.05	24.01	25.0	0.0	
100	PI2 BPSK	135	138	24.10	24.28	24.07	25.0	0.0	
100	PI2 BPSK	270	0	24.13	24.17	24.12			
100	QPSK	1	1	24.31	24.40	24.23			
100	QPSK	1	137	24.33	24.24	24.21	25.0	0.0	
100	QPSK	1	271	24.24	24.23	24.04			
100	QPSK	135	0	23.80	23.92	23.81	25.0	0.0	
100	QPSK	135	69	24.20	24.31	24.16	25.0	0.0	
100	QPSK	135	138	24.06	24.22	24.13	25.0	0.0	
100	QPSK	270	0	24.11	24.14	24.10			
100	16QAM	1	1	23.25	23.35	23.34	24.0	1.0	
100	16QAM	1	1	22.25	22.27	22.27	22.5	2.5	
100	256QAM	1	1	20.20	20.23	20.20	20.5	4.5	
Channel				645968	650000	645934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	24.23	24.22	23.84	25.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.24	24.11	23.92	25.0	0.0	
Channel				645000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	24.19	24.10	23.89	25.0	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	24.16	24.12	23.99	25.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	24.17	24.10	23.84	25.0	0.0	
Channel				645000	650000	644000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3990			
40	QPSK	1	1	24.23	24.22	23.86	25.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.02	3840	3923.01			
30	QPSK	1	1	24.44	24.04	23.84	25.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	24.25	24.03	23.97	25.0	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	24.11	24.23	23.91	25.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	24.25	24.19	23.87	25.0	0.0	



Part270 n78 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	22.81	22.81	22.81			
100	PI/2 BPSK	1	137	22.53	22.53	22.53	23.0	0.0	
100	PI/2 BPSK	1	271	22.86	22.86	22.86			
100	PI/2 BPSK	135	0	22.13	22.13	22.13	22.5	0.5	
100	PI/2 BPSK	135	69	22.51	22.51	22.51	23.0	0.0	
100	PI/2 BPSK	135	138	22.05	22.05	22.05	22.5	0.5	
100	PI/2 BPSK	270	0	22.67	22.67	22.67			
100	QPSK	1	1	22.82	22.82	22.82			
100	QPSK	1	137	22.49	22.49	22.49	23.0	0.0	
100	QPSK	1	271	22.42	22.42	22.42			
100	QPSK	135	0	21.59	21.59	21.59	22.0	1.0	
100	QPSK	135	69	22.38	22.38	22.38	23.0	0.0	
100	QPSK	135	138	21.47	21.47	21.47	22.0	1.0	
100	QPSK	270	0	21.51	21.51	21.51			
100	16QAM	1	1	21.14	21.14	21.14	22.0	1.0	
100	64QAM	1	1	19.88	19.88	19.88	20.5	2.5	
100	256QAM	1	1	18.44	18.44	18.44	18.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.45	22.52	22.48	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.33	22.44	22.52	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.55	22.47	22.39	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	22.42	22.49	22.57	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.57	22.53	22.42	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.50	22.56	22.57	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.51	22.42	22.57	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.43	22.58	22.38	23.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.54	22.55	22.45	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.53	22.57	22.55	23.0	0.0	

Part270 n78 PC2 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	24.44	24.44	24.44			
100	PI/2 BPSK	1	137	24.44	24.44	24.44	25.0	0.0	
100	PI/2 BPSK	1	271	24.21	24.21	24.21			
100	PI/2 BPSK	135	0	24.16	24.16	24.16	24.5	0.5	
100	PI/2 BPSK	135	69	24.47	24.47	24.47	25.0	0.0	
100	PI/2 BPSK	135	138	24.02	24.02	24.02	24.5	0.5	
100	PI/2 BPSK	270	0	24.01	24.01	24.01			
100	QPSK	1	1	24.48	24.48	24.48			
100	QPSK	1	137	24.40	24.40	24.40	25.0	0.0	
100	QPSK	1	271	24.16	24.16	24.16			
100	QPSK	135	0	23.71	23.71	23.71	24.0	1.0	
100	QPSK	135	69	24.43	24.43	24.43	25.0	0.0	
100	QPSK	135	138	23.49	23.49	23.49	24.0	1.0	
100	QPSK	270	0	23.01	23.01	23.01			
100	16QAM	1	1	23.26	23.26	23.26	24.0	1.0	
100	64QAM	1	1	21.24	21.24	21.24	22.5	2.5	
100	256QAM	1	1	20.28	20.28	20.28	20.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	24.41	24.36	24.40	25.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	24.35	24.42	24.24	25.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	24.34	24.23	24.32	25.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	24.44	24.46	24.42	25.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	24.33	24.27	24.42	25.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	24.43	24.34	24.34	25.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	24.27	24.29	24.33	25.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	24.40	24.24	24.46	25.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	24.40	24.40	24.44	25.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	24.42	24.29	24.30	25.0	0.0	



Part270 n77 Main PA Ant3 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	12.35	12.58	12.54			
100	PI2 BPSK	1	137	12.30	12.71	12.72	13.7	0.0	
100	PI2 BPSK	1	271	12.48	12.85	12.54			
100	PI2 BPSK	135	0	12.48	12.56	12.82	13.7	0.0	
100	PI2 BPSK	135	69	12.50	12.66	12.80	13.7	0.0	
100	PI2 BPSK	135	138	12.39	12.57	12.65	13.7	0.0	
100	PI2 BPSK	270	0	12.45	12.56	12.75			
100	QPSK	1	1	12.49	12.77	12.74			
100	QPSK	1	137	12.47	12.74	12.86	13.7	0.0	
100	QPSK	1	271	12.43	12.60	12.53			
100	QPSK	135	0	12.46	12.84	12.72	13.7	0.0	
100	QPSK	135	69	12.32	12.75	12.63	13.7	0.0	
100	QPSK	135	138	12.42	12.73	12.66			
100	QPSK	270	0	12.32	12.72	12.55	13.7	0.0	
100	16QAM	1	1	12.31	12.71	12.67	13.7	0.0	
100	16QAM	1	1	12.47	12.73	12.61	13.7	0.0	
100	256QAM	1	1	12.32	12.86	12.70	13.7	0.0	
Channel				645000	650000	642334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	12.33	12.68	12.63	13.7	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	12.38	12.59	12.72	13.7	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	12.39	12.74	12.55	13.7	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	12.30	12.58	12.61	13.7	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	12.29	12.80	12.63	13.7	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	12.32	12.57	12.63	13.7	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	12.38	12.62	12.62	13.7	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	12.34	12.67	12.61	13.7	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	12.51	12.86	12.80	13.7	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	12.40	12.72	12.69	13.7	0.0	

Part270 n77 PC2 Main PA Ant3 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.10	15.48	15.12			
100	PI2 BPSK	1	137	15.28	15.38	15.11	16.7	0.0	
100	PI2 BPSK	1	271	15.11	15.41	15.23			
100	PI2 BPSK	135	0	15.13	15.45	15.21	16.7	0.0	
100	PI2 BPSK	135	69	15.27	15.37	15.28	16.7	0.0	
100	PI2 BPSK	135	138	15.19	15.45	15.30	16.7	0.0	
100	PI2 BPSK	270	0	15.13	15.32	15.17			
100	QPSK	1	1	15.31	15.51	15.30			
100	QPSK	1	137	15.24	15.47	15.17	16.7	0.0	
100	QPSK	1	271	15.30	15.45	15.28			
100	QPSK	135	0	15.31	15.48	15.23	16.7	0.0	
100	QPSK	135	69	15.11	15.49	15.15	16.7	0.0	
100	QPSK	135	138	15.30	15.48	15.23			
100	QPSK	270	0	15.20	15.33	15.29	16.7	0.0	
100	16QAM	1	1	15.19	15.48	15.21	16.7	0.0	
100	16QAM	1	1	15.17	15.46	15.21	16.7	0.0	
100	256QAM	1	1	15.17	15.47	15.16	16.7	0.0	
Channel				645000	650000	642334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.31	15.37	15.18	16.7	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.23	15.50	15.18	16.7	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.28	15.34	15.28	16.7	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.24	15.43	15.31	16.7	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.28	15.41	15.21	16.7	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.25	15.45	15.13	16.7	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.31	15.49	15.29	16.7	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.28	15.49	15.23	16.7	0.0	
Channel				647188	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.29	15.30	15.22	16.7	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.10	15.49	15.11	16.7	0.0	



Part270 n78 Main PA Ant3 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				11.95	11.95	11.95			
100	PI/2 BPSK	1	1		11.84		13.7	0.0	
100	PI/2 BPSK	1	137		11.98				
100	PI/2 BPSK	1	271		11.98				
100	PI/2 BPSK	135	0		11.98		13.7	0.0	
100	PI/2 BPSK	135	69		11.79		13.7	0.0	
100	PI/2 BPSK	135	138		11.84		13.7	0.0	
100	PI/2 BPSK	270	0		11.81				
100	QPSK	1	1		12.00				
100	QPSK	1	137		11.98		13.7	0.0	
100	QPSK	1	271		11.94				
100	QPSK	135	0		11.90		13.7	0.0	
100	QPSK	135	69		11.88		13.7	0.0	
100	QPSK	135	138		11.86		13.7	0.0	
100	QPSK	270	0		11.81				
100	16QAM	1	1		11.87		13.7	0.0	
100	64QAM	1	1		11.84		13.7	0.0	
100	256QAM	1	1		11.81		13.7	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		11.94	11.95	11.99	13.7	0.0
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		11.85	11.85	11.78	13.7	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		11.98	11.90	11.94	13.7	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		11.99	11.98	11.87	13.7	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		11.85	11.59	11.84	13.7	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		11.82	11.82	11.80	13.7	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1		11.87	11.88	11.85	13.7	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		11.97	11.97	11.82	13.7	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01			
15	QPSK	1	1		11.80	11.95	11.83	13.7	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		11.87	11.88	11.84	13.7	0.0

Part270 n78 PC2 Main PA Ant3 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				14.90	14.90	14.90			
100	PI/2 BPSK	1	1		14.85		16.7	0.0	
100	PI/2 BPSK	1	137		14.97				
100	PI/2 BPSK	1	271		14.97				
100	PI/2 BPSK	135	0		14.88		16.7	0.0	
100	PI/2 BPSK	135	69		14.80		16.7	0.0	
100	PI/2 BPSK	135	138		14.81		16.7	0.0	
100	PI/2 BPSK	270	0		14.98				
100	QPSK	1	1		14.88				
100	QPSK	1	137		14.80		16.7	0.0	
100	QPSK	1	271		14.82				
100	QPSK	135	0		14.82		16.7	0.0	
100	QPSK	135	69		14.88		16.7	0.0	
100	QPSK	135	138		14.82		16.7	0.0	
100	QPSK	270	0		14.82				
100	16QAM	1	1		14.79		16.7	0.0	
100	64QAM	1	1		14.89		16.7	0.0	
100	256QAM	1	1		14.80		16.7	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		14.90	14.97	14.85	16.7	0.0
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		14.77	14.84	14.95	16.7	0.0
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		14.81	14.91	14.85	16.7	0.0
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		14.95	14.90	14.97	16.7	0.0
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		14.79	14.85	14.79	16.7	0.0
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		14.88	14.81	14.81	16.7	0.0
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3725.01			
30	QPSK	1	1		14.82	14.79	14.91	16.7	0.0
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		14.84	14.81	14.84	16.7	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01			
15	QPSK	1	1		14.78	14.80	14.92	16.7	0.0
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		14.80	14.84	14.88	16.7	0.0



Part270 n77 Ant5 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 655000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	18.27	16.52	16.34			
100	PI2 BPSK	1	137	18.28	16.55	16.30	17.3	0.0	
100	PI2 BPSK	1	271	18.35	16.52	16.42			
100	PI2 BPSK	135	0	18.17	16.83	16.37	17.3	0.0	
100	PI2 BPSK	135	69	18.19	16.46	16.39	17.3	0.0	
100	PI2 BPSK	135	138	18.33	16.57	16.35	17.3	0.0	
100	PI2 BPSK	270	0	18.32	16.52	16.50			
100	QPSK	1	1	18.38	16.64	16.50			
100	QPSK	1	137	18.33	16.50	16.40	17.3	0.0	
100	QPSK	1	271	18.25	16.62	16.28			
100	QPSK	135	0	18.38	16.45	16.49	17.3	0.0	
100	QPSK	135	69	18.17	16.62	16.40	17.3	0.0	
100	QPSK	135	138	18.17	16.58	16.44	17.3	0.0	
100	QPSK	270	0	18.28	16.50	16.51			
100	16QAM	1	1	18.24	16.55	16.42	17.3	0.0	
100	16QAM	1	1	18.18	16.49	16.31	17.3	0.0	
100	256QAM	1	1	18.22	16.55	16.49	17.3	0.0	
Channel				649598	655000	662834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.25	16.60	16.37	17.3	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.21	16.51	16.50	17.3	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.21	16.58	16.33	17.3	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.15	16.48	16.48	17.3	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.23	16.58	16.51	17.3	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.28	16.54	16.30	17.3	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.10	16.55	16.41	17.3	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.28	16.62	16.36	17.3	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3977.51			
15	QPSK	1	1	18.31	16.62	16.41	17.3	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.32	16.49	16.29	17.3	0.0	

Part270 n77 PC2 Ant5 DS19									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 655000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	19.34	18.35	19.17			
100	PI2 BPSK	1	137	19.27	19.49	19.20	20.3	0.0	
100	PI2 BPSK	1	271	19.27	19.31	19.34			
100	PI2 BPSK	135	0	19.28	19.38	19.14	20.3	0.0	
100	PI2 BPSK	135	69	19.32	19.48	19.27	20.3	0.0	
100	PI2 BPSK	135	138	19.31	19.48	19.16	20.3	0.0	
100	PI2 BPSK	270	0	19.29	19.50	19.17			
100	QPSK	1	1	19.38	19.51	19.36			
100	QPSK	1	137	19.37	19.34	19.35	20.3	0.0	
100	QPSK	1	271	19.39	19.38	19.14			
100	QPSK	135	0	19.18	19.49	19.37	20.3	0.0	
100	QPSK	135	69	19.37	19.50	19.29	20.3	0.0	
100	QPSK	135	138	19.26	19.39	19.24	20.3	0.0	
100	QPSK	270	0	19.30	19.44	19.38			
100	16QAM	1	1	19.24	19.50	19.21	20.3	0.0	
100	16QAM	1	1	19.30	19.48	19.20	20.3	0.0	
100	256QAM	1	1	19.26	19.45	19.38	20.3	0.0	
Channel				649598	655000	662834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.28	19.33	19.31	20.3	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.37	19.41	19.29	20.3	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.20	19.50	19.21	20.3	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.39	19.43	19.21	20.3	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.27	19.50	19.31	20.3	0.0	
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.39	19.39	19.27	20.3	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.17	19.29	19.31	20.3	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.19	19.30	19.33	20.3	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3977.51			
15	QPSK	1	1	19.29	19.33	19.15	20.3	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.31	19.51	19.34	20.3	0.0	



Part270 n78 Ant5 DS19									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.28				
100	PI2 BPSK	1	137		18.40			0.0	
100	PI2 BPSK	1	271		18.24				
100	PI2 BPSK	135	0		18.25		17.3	0.0	
100	PI2 BPSK	135	69		18.42		17.3	0.0	
100	PI2 BPSK	135	138		18.42		17.3	0.0	
100	PI2 BPSK	270	0		18.32				
100	QPSK	1	1		18.48				
100	QPSK	1	137		18.33		17.3	0.0	
100	QPSK	1	271		18.32				
100	QPSK	135	0		18.37		17.3	0.0	
100	QPSK	135	69		18.40		17.3	0.0	
100	QPSK	135	138		18.38		17.3	0.0	
100	QPSK	270	0		18.23				
100	16QAM	1	1		18.38		17.3	0.0	
100	16QAM	1	1		18.28		17.3	0.0	
100	256QAM	1	1		18.34		17.3	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		18.28	18.42	18.38	17.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.35	18.40	18.29	17.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		18.33	18.28	18.34	17.3	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		18.45	18.44	18.37	17.3	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3725.02			
50	QPSK	1	1		18.38	18.25	18.39	17.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.32	18.35	18.36	17.3	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3715.01			
30	QPSK	1	1		18.25	18.41	18.34	17.3	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.44	18.40	18.35	17.3	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1		18.45	18.40	18.31	17.3	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		18.32	18.27	18.28	17.3	0.0

Part270 n78 PC2 Ant5 DS19									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.37				
100	PI2 BPSK	1	137		18.41			0.0	
100	PI2 BPSK	1	271		18.33				
100	PI2 BPSK	135	0		18.32		20.3	0.0	
100	PI2 BPSK	135	69		18.44		20.3	0.0	
100	PI2 BPSK	135	138		18.41		20.3	0.0	
100	PI2 BPSK	270	0		18.43				
100	QPSK	1	1		18.33				
100	QPSK	1	137		18.48		20.3	0.0	
100	QPSK	1	271		18.38				
100	QPSK	135	0		18.48		20.3	0.0	
100	QPSK	135	69		18.50		20.3	0.0	
100	QPSK	135	138		18.44		20.3	0.0	
100	QPSK	270	0		18.46				
100	16QAM	1	1		18.44		20.3	0.0	
100	16QAM	1	1		18.40		20.3	0.0	
100	256QAM	1	1		18.40		20.3	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		18.51	18.31	18.40	20.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.38	18.51	18.45	20.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		18.43	18.38	18.34	20.3	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		18.46	18.38	18.50	20.3	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3725.02			
50	QPSK	1	1		18.45	18.51	18.49	20.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.35	18.38	18.35	20.3	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3715.01			
30	QPSK	1	1		18.51	18.31	18.43	20.3	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		18.39	18.48	18.43	20.3	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1		18.40	18.34	18.47	20.3	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		18.34	18.44	18.46	20.3	0.0



Reduced Power Mode for Main PA n77&78 DSI10

Part270 n77 Main PA Ant1 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	Pi/2 BPSK	1	1	15.20	15.14	14.95	16.5	0.0	
100	Pi/2 BPSK	1	137	15.11	15.15	15.07			
100	Pi/2 BPSK	1	271	15.16	15.16	15.06			
100	Pi/2 BPSK	135	0	15.07	15.13	15.05	16.5	0.0	
100	Pi/2 BPSK	135	69	15.17	15.28	15.13	16.5	0.0	
100	Pi/2 BPSK	135	138	15.19	15.28	14.98	16.5	0.0	
100	Pi/2 BPSK	270	0	15.05	15.28	14.93			
100	QPSK	1	1	15.24	15.31	15.14			
100	QPSK	1	137	15.14	15.22	15.10	16.5	0.0	
100	QPSK	1	271	15.07	15.13	14.97			
100	QPSK	135	0	15.05	15.11	15.01	16.5	0.0	
100	QPSK	135	69	15.03	15.30	14.96	16.5	0.0	
100	QPSK	135	138	15.07	15.27	15.09			
100	QPSK	270	0	15.23	15.26	14.97	16.5	0.0	
100	16QAM	1	1	15.28	15.20	15.08	16.5	0.0	
100	64QAM	1	1	15.17	15.21	15.11	16.5	0.0	
100	256QAM	1	1	15.15	15.29	15.00	16.5	0.0	
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.21	15.29	15.15	16.5	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.03	15.20	15.01	16.5	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.25	15.20	14.94	16.5	0.0	
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.20	15.17	15.08	16.5	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.02	15.14	15.06	16.5	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3955			
40	QPSK	1	1	15.15	15.21	15.12	16.5	0.0	
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.18	15.19	15.07	16.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.11	15.27	15.03	16.5	0.0	
Channel				647188	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.02	15.26	14.97	16.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.19	15.11	14.92	16.5	0.0	

Part270 n77 PC2 Main PA Ant1 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	Pi/2 BPSK	1	1	17.91	17.94	17.75	19.5	0.0	
100	Pi/2 BPSK	1	137	17.86	17.96	17.81			
100	Pi/2 BPSK	1	271	17.91	17.82	17.78			
100	Pi/2 BPSK	135	0	17.83	18.00	17.71	19.5	0.0	
100	Pi/2 BPSK	135	69	17.81	17.92	17.61	19.5	0.0	
100	Pi/2 BPSK	135	138	17.87	17.87	17.83	19.5	0.0	
100	Pi/2 BPSK	270	0	17.86	17.98	17.75			
100	QPSK	1	1	17.84	18.01	17.81			
100	QPSK	1	137	17.85	17.80	17.82	19.5	0.0	
100	QPSK	1	271	17.79	17.99	17.69			
100	QPSK	135	0	17.80	17.90	17.64	19.5	0.0	
100	QPSK	135	69	17.84	17.95	17.81	19.5	0.0	
100	QPSK	135	138	17.82	17.82	17.78			
100	QPSK	270	0	17.88	17.90	17.78	19.5	0.0	
100	16QAM	1	1	17.75	17.80	17.71	19.5	0.0	
100	64QAM	1	1	17.91	17.92	17.64	19.5	0.0	
100	256QAM	1	1	17.88	17.90	17.59	19.5	0.0	
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.77	17.84	17.78	19.5	0.0	
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.84	17.85	17.64	19.5	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.87	17.96	17.64	19.5	0.0	
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.82	17.84	17.78	19.5	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.87	17.82	17.61	19.5	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3955			
40	QPSK	1	1	17.90	17.90	17.75	19.5	0.0	
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.86	18.00	17.78	19.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.87	17.82	17.79	19.5	0.0	
Channel				647188	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.74	17.93	17.81	19.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.82	17.90	17.61	19.5	0.0	





Part270 n78 Main PA Ant1 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3760	3760	3760			
100	PI/2 BPSK	1	1	15.45			18.5	0.0	
100	PI/2 BPSK	1	137	15.41					
100	PI/2 BPSK	1	271	15.45					
100	PI/2 BPSK	135	0	15.28			18.5	0.0	
100	PI/2 BPSK	135	69	15.27			18.5	0.0	
100	PI/2 BPSK	135	138	15.42			18.5	0.0	
100	PI/2 BPSK	270	0	15.27			18.5	0.0	
100	QPSK	1	1	15.48					
100	QPSK	1	137	15.45			18.5	0.0	
100	QPSK	1	271	15.34					
100	QPSK	135	0	15.40			18.5	0.0	
100	QPSK	135	69	15.47			18.5	0.0	
100	QPSK	135	138	15.33			18.5	0.0	
100	QPSK	270	0	15.31			18.5	0.0	
100	16QAM	1	1	15.39			18.5	0.0	
100	64QAM	1	1	15.33			18.5	0.0	
100	256QAM	1	1	15.28			15.5	1.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3760	3765.01	(dB)		
90	QPSK	1	1	15.35	15.42	15.31	18.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3760	3760.02	(dB)		
80	QPSK	1	1	15.34	15.37	15.28	18.5	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3760	3765	(dB)		
70	QPSK	1	1	15.48	15.48	15.42	18.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3760	3770.01	(dB)		
60	QPSK	1	1	15.41	15.28	15.43	18.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3760	3775.02	(dB)		
50	QPSK	1	1	15.31	15.48	15.43	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3760	3760	(dB)		
40	QPSK	1	1	15.45	15.38	15.31	18.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3760	3785.01	(dB)		
30	QPSK	1	1	15.46	15.30	15.48	18.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3760	3790.02	(dB)		
20	QPSK	1	1	15.38	15.38	15.32	18.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.62	3760	3792.51	(dB)		
15	QPSK	1	1	15.41	15.34	15.45	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3760	3795	(dB)		
10	QPSK	1	1	15.33	15.31	15.35	18.5	0.0	

Part270 n78 PC2 Main PA Ant1 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				620000	620000	620000			
Frequency (MHz)				3760	3760	3760			
100	PI/2 BPSK	1	1	17.79			19.5	0.0	
100	PI/2 BPSK	1	137	17.84					
100	PI/2 BPSK	1	271	17.89					
100	PI/2 BPSK	135	0	17.85			19.5	0.0	
100	PI/2 BPSK	135	69	17.78			19.5	0.0	
100	PI/2 BPSK	135	138	17.85			19.5	0.0	
100	PI/2 BPSK	270	0	17.81			19.5	0.0	
100	QPSK	1	1	17.87					
100	QPSK	1	137	17.78			19.5	0.0	
100	QPSK	1	271	17.79					
100	QPSK	135	0	17.82			19.5	0.0	
100	QPSK	135	69	17.84			19.5	0.0	
100	QPSK	135	138	17.86			19.5	0.0	
100	QPSK	270	0	17.88			19.5	0.0	
100	16QAM	1	1	17.90			19.5	0.0	
100	64QAM	1	1	17.84			19.5	0.0	
100	256QAM	1	1	17.72			18.5	1.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3760	3765.01	(dB)		
90	QPSK	1	1	17.80	17.89	17.89	19.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3760	3760.02	(dB)		
80	QPSK	1	1	17.78	17.78	17.83	19.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3760	3765	(dB)		
70	QPSK	1	1	17.87	17.79	17.83	19.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3760	3770.01	(dB)		
60	QPSK	1	1	17.81	17.89	17.90	19.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3760	3775.02	(dB)		
50	QPSK	1	1	17.91	17.89	17.81	19.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3760	3760	(dB)		
40	QPSK	1	1	17.85	17.76	17.76	19.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3760	3785.01	(dB)		
30	QPSK	1	1	17.90	17.75	17.77	19.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3760	3790.02	(dB)		
20	QPSK	1	1	17.93	17.81	17.83	19.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.62	3760	3792.51	(dB)		
15	QPSK	1	1	17.80	17.83	17.90	19.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3760	3795	(dB)		
10	QPSK	1	1	17.94	17.92	17.83	19.5	0.0	



### Part270 n77 M

BW (MHz)	Modulation	RB Size	RB Offset
Channel			
Frequency (MHz)			
100	PI2 BPSK	1	1
100	PI2 BPSK	1	137
100	PI2 BPSK	1	271
100	PI2 BPSK	135	0
100	PI2 BPSK	135	69
100	PI2 BPSK	135	138
100	PI2 BPSK	270	0
100	QPSK	1	1
100	QPSK	1	137
100	QPSK	1	271
100	QPSK	135	0
100	QPSK	135	69
100	QPSK	135	138
100	QPSK	270	0
100	16QAM	1	1
100	64QAM	1	1
100	256QAM	1	1
Channel			
Frequency (MHz)			
90	QPSK	1	1
Channel			
Frequency (MHz)			
80	QPSK	1	1
Channel			
Frequency (MHz)			
70	QPSK	1	1
Channel			
Frequency (MHz)			
60	QPSK	1	1
Channel			
Frequency (MHz)			
50	QPSK	1	1
Channel			
Frequency (MHz)			
40	QPSK	1	1
Channel			
Frequency (MHz)			
30	QPSK	1	1
Channel			
Frequency (MHz)			
20	QPSK	1	1
Channel			
Frequency (MHz)			
15	QPSK	1	1
Channel			
Frequency (MHz)			
10	QPSK	1	1



### Main PA Ant2 DS10

Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
65000	65000	65000		
3750	3840	3930		
18.50	18.56	18.31		
18.48	18.61	18.34	19.3	0.0
18.41	18.46	18.32		
18.40	18.43	18.22	19.3	0.0
18.31	18.56	18.35	19.3	0.0
18.54	18.61	18.24	19.3	0.0
18.47	18.59	18.28		
18.53	18.66	18.38		
18.44	18.51	18.33	19.3	0.0
18.42	18.62	18.21		
18.35	18.62	18.31	19.3	0.0
18.30	18.63	18.33	19.3	0.0
18.43	18.53	18.34	19.3	0.0
18.38	18.49	18.41	19.3	0.0
18.38	18.48	18.28	19.3	0.0
18.37	18.57	18.42	19.3	0.0
18.38	18.47	18.33	19.3	0.0
64868	65000	65334	Tune-up limit (dBm)	MPR (dB)
3745.02	3840	3935.01		
18.51	18.49	18.21	19.3	0.0
649334	65000	662988	Tune-up limit (dBm)	MPR (dB)
3740.01	3840	3940.02		
18.43	18.47	18.40	19.3	0.0
649000	65000	663000	Tune-up limit (dBm)	MPR (dB)
3735	3840	3945		
18.33	18.59	18.42	19.3	0.0
648688	65000	663334	Tune-up limit (dBm)	MPR (dB)
3730.02	3840	3950.01		
18.40	18.43	18.42	19.3	0.0
648334	65000	663688	Tune-up limit (dBm)	MPR (dB)
3725.01	3840	3955.02		
18.39	18.59	18.22	19.3	0.0
648000	65000	664000	Tune-up limit (dBm)	MPR (dB)
3720	3840	3960		
18.38	18.63	18.31	19.3	0.0
647688	65000	664334	Tune-up limit (dBm)	MPR (dB)
3713.02	3840	3965.01		
18.48	18.51	18.25	19.3	0.0
647334	65000	664688	Tune-up limit (dBm)	MPR (dB)
3710.01	3840	3970.02		
18.40	18.57	18.41	19.3	0.0
647168	65000	664834	Tune-up limit (dBm)	MPR (dB)
3707.52	3840	3975.51		
18.52	18.51	18.25	19.3	0.0
647000	65000	665000	Tune-up limit (dBm)	MPR (dB)
3705	3840	3975		
18.36	18.58	18.30	19.3	0.0

### Part270 n77 PC2 Main PA Ant2 DS10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	21.26	21.24	21.62		
100	PI2 BPSK	1	137	21.30	21.28	21.14	22.3	0.0
100	PI2 BPSK	1	271	21.19	21.27	21.08		
100	PI2 BPSK	135	0	21.30	21.42	21.18	22.3	0.0
100	PI2 BPSK	135	69	21.30	21.27	21.09	22.3	0.0
100	PI2 BPSK	135	138	21.33	21.38	21.21	22.3	0.0
100	PI2 BPSK	270	0	21.10	21.39	21.04		
100	QPSK	1	1	21.32	21.44	21.28		
100	QPSK	1	137	21.10	21.33	21.20	22.3	0.0
100	QPSK	1	271	21.24	21.37	21.24		
100	QPSK	135	0	21.28	21.31	21.15	22.3	0.0
100	QPSK	135	69	21.16	21.41	21.22	22.3	0.0
100	QPSK	135	138	21.26	21.28	21.18	22.3	0.0
100	QPSK	270	0	21.27	21.35	21.18		
100	16QAM	1	1	21.15	21.26	21.15	22.3	0.0
100	64QAM	1	1	21.21	21.20	21.12	22.3	0.0
100	256QAM	1	1	20.20	20.23	20.20	21.3	1.0
Channel								
Frequency (MHz)				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.10	21.31	21.22	22.3	0.0
Channel								
Frequency (MHz)				649334	65000	662988	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.25	21.20	21.05	22.3	0.0
Channel								
Frequency (MHz)				649000	65000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.11	21.38	21.06	22.3	0.0
Channel								
Frequency (MHz)				648688	65000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.11	21.32	21.19	22.3	0.0
Channel								
Frequency (MHz)				648334	65000	663688	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.29	21.23	21.15	22.3	0.0
Channel								
Frequency (MHz)				648000	65000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.15	21.37	21.07	22.3	0.0
Channel								
Frequency (MHz)				647688	65000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.09	21.28	21.20	22.3	0.0
Channel								
Frequency (MHz)				647334	65000	664688	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.31	21.31	21.05	22.3	0.0
Channel								
Frequency (MHz)				647168	65000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.12	21.41	21.19	22.3	0.0
Channel								
Frequency (MHz)				647000	65000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.18	21.36	21.14	22.3	0.0



Part270 n78 Main PA Ant2 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dBm)	Power Middle Ch. / Freq. (dBm)	Power High Ch. / Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				19.22	19.22	19.22			
100	PI/2 BPSK	1	1		19.22				
100	PI/2 BPSK	1	137		19.20		19.3	0.0	
100	PI/2 BPSK	1	271		19.20				
100	PI/2 BPSK	135	0		19.21		19.3	0.0	
100	PI/2 BPSK	135	69		19.26		19.3	0.0	
100	PI/2 BPSK	135	138		19.22		19.3	0.0	
100	PI/2 BPSK	270	0		19.12				
100	QPSK	1	1		19.26				
100	QPSK	1	137		19.14		19.3	0.0	
100	QPSK	1	271		19.21				
100	QPSK	135	0		19.11		19.3	0.0	
100	QPSK	135	69		19.23		19.3	0.0	
100	QPSK	135	138		19.13		19.3	0.0	
100	QPSK	270	0		19.21				
100	16QAM	1	1		19.27		19.3	0.0	
100	64QAM	1	1		19.16		19.3	0.0	
100	256QAM	1	1		18.14		18.3	1.0	
Channel				649688	650000	650314	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.12	19.21	19.27	19.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.22	19.23	19.15	19.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.21	19.20	19.21	19.3	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		19.15	19.13	19.26	19.3	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.20	19.15	19.24	19.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.19	19.12	19.16	19.3	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		19.20	19.09	19.08	19.3	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.21	19.12	19.06	19.3	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		19.20	19.02	19.14	19.3	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		19.09	19.13	19.11	19.3	0.0

Part270 n78 PC2 Main PA Ant2 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dBm)	Power Middle Ch. / Freq. (dBm)	Power High Ch. / Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				21.42	21.42	21.42			
100	PI/2 BPSK	1	1		21.46				
100	PI/2 BPSK	1	137		21.43		22.3	0.0	
100	PI/2 BPSK	1	271		21.28				
100	PI/2 BPSK	135	0		21.34		22.3	0.0	
100	PI/2 BPSK	135	69		21.46		22.3	0.0	
100	PI/2 BPSK	135	138		21.29		22.3	0.0	
100	PI/2 BPSK	270	0		21.41				
100	QPSK	1	1		21.42				
100	QPSK	1	137		21.43		22.3	0.0	
100	QPSK	1	271		21.47				
100	QPSK	135	0		21.29		22.3	0.0	
100	QPSK	135	69		21.42		22.3	0.0	
100	QPSK	135	138		21.33		22.3	0.0	
100	QPSK	270	0		21.41				
100	16QAM	1	1		21.32		22.3	0.0	
100	64QAM	1	1		21.44		22.3	0.0	
100	256QAM	1	1		20.28		21.3	1.0	
Channel				649688	650000	650314	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		21.33	21.36	21.43	22.3	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		21.32	21.31	21.47	22.3	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.36	21.31	21.43	22.3	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		21.35	21.33	21.35	22.3	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		21.47	21.43	21.45	22.3	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.45	21.31	21.32	22.3	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		21.33	21.45	21.39	22.3	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		21.44	21.32	21.39	22.3	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		21.50	21.36	21.43	22.3	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		21.48	21.42	21.36	22.3	0.0



Part270 n77 Main PA Ant3 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	12.90	13.06	13.00			
100	PI2 BPSK	1	137	12.96	13.16	12.96	14.0	0.0	
100	PI2 BPSK	1	271	12.86	13.22	13.08			
100	PI2 BPSK	135	0	12.87	13.19	13.02	14.0	0.0	
100	PI2 BPSK	135	69	12.88	13.20	13.09	14.0	0.0	
100	PI2 BPSK	135	138	12.84	13.21	12.96	14.0	0.0	
100	PI2 BPSK	270	0	12.88	13.11	12.98			
100	QPSK	1	1	12.98	13.23	13.08			
100	QPSK	1	137	13.04	13.15	13.07	14.0	0.0	
100	QPSK	1	271	12.82	13.01	13.15			
100	QPSK	135	0	12.81	13.17	13.03	14.0	0.0	
100	QPSK	135	69	12.89	13.22	12.95	14.0	0.0	
100	QPSK	135	138	12.91	13.12	13.15	14.0	0.0	
100	QPSK	270	0	12.82	13.16	13.13			
100	16QAM	1	1	13.03	13.16	13.14	14.0	0.0	
100	16QAM	1	1	12.85	13.16	13.00	14.0	0.0	
100	256QAM	1	1	12.98	13.13	13.08	14.0	0.0	
Channel				649983	650000	649934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	12.81	13.09	13.00	14.0	0.0	
Channel				649334	650000	649268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	12.83	13.14	13.01	14.0	0.0	
Channel				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	12.81	13.06	13.01	14.0	0.0	
Channel				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	13.00	13.05	13.10	14.0	0.0	
Channel				648334	650000	648368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	13.00	13.13	13.08	14.0	0.0	
Channel				648000	650000	648000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	13.00	13.05	12.93	14.0	0.0	
Channel				647668	650000	644334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3925.01			
30	QPSK	1	1	12.96	13.12	12.94	14.0	0.0	
Channel				647334	650000	646968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	13.03	13.15	13.02	14.0	0.0	
Channel				647188	650000	644334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	12.80	13.03	12.92	14.0	0.0	
Channel				647000	650000	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	12.94	13.18	13.16	14.0	0.0	

Part270 n77 PC2 Main PA Ant3 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	15.80	15.91	15.67			
100	PI2 BPSK	1	137	15.78	15.79	15.69	17.0	0.0	
100	PI2 BPSK	1	271	15.88	15.96	15.58			
100	PI2 BPSK	135	0	15.87	15.84	15.71	17.0	0.0	
100	PI2 BPSK	135	69	15.79	15.96	15.76	17.0	0.0	
100	PI2 BPSK	135	138	15.67	15.82	15.72	17.0	0.0	
100	PI2 BPSK	270	0	15.68	15.95	15.59			
100	QPSK	1	1	15.87	15.97	15.83			
100	QPSK	1	137	15.88	15.90	15.78	17.0	0.0	
100	QPSK	1	271	15.77	15.84	15.76			
100	QPSK	135	0	15.71	15.82	15.74	17.0	0.0	
100	QPSK	135	69	15.78	15.89	15.87	17.0	0.0	
100	QPSK	135	138	15.74	15.83	15.61	17.0	0.0	
100	QPSK	270	0	15.84	15.86	15.79			
100	16QAM	1	1	15.60	15.82	15.70	17.0	0.0	
100	16QAM	1	1	15.67	15.75	15.63	17.0	0.0	
100	256QAM	1	1	15.79	15.90	15.83	17.0	0.0	
Channel				649983	650000	649334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.74	15.86	15.60	17.0	0.0	
Channel				649334	650000	649268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.87	15.89	15.79	17.0	0.0	
Channel				649000	650000	649000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.80	15.91	15.64	17.0	0.0	
Channel				648668	650000	648334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.83	15.89	15.72	17.0	0.0	
Channel				648334	650000	648368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.71	15.89	15.71	17.0	0.0	
Channel				648000	650000	648000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.80	15.92	15.63	17.0	0.0	
Channel				647668	650000	644334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3925.01			
30	QPSK	1	1	15.85	15.75	15.63	17.0	0.0	
Channel				647334	650000	646968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.77	15.86	15.77	17.0	0.0	
Channel				647188	650000	644334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.68	15.84	15.67	17.0	0.0	
Channel				647000	650000	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.61	15.84	15.75	17.0	0.0	



Part270 n78 Main PA Ant3 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dBm)	Power Middle Ch. / Freq. (dBm)	Power High Ch. / Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pi/2 BPSK	1	1	12.42	12.42	12.42			
100	Pi/2 BPSK	1	137	12.45	12.45	12.45	14.0	0.0	
100	Pi/2 BPSK	1	271	12.48	12.48	12.48	14.0	0.0	
100	Pi/2 BPSK	135	0	12.49	12.49	12.49	14.0	0.0	
100	Pi/2 BPSK	135	69	12.40	12.40	12.40	14.0	0.0	
100	Pi/2 BPSK	135	138	12.30	12.30	12.30	14.0	0.0	
100	Pi/2 BPSK	270	0	12.39	12.39	12.39	14.0	0.0	
100	QPSK	1	1	12.50	12.50	12.50	14.0	0.0	
100	QPSK	1	137	12.29	12.29	12.29	14.0	0.0	
100	QPSK	1	271	12.50	12.50	12.50	14.0	0.0	
100	QPSK	135	0	12.40	12.40	12.40	14.0	0.0	
100	QPSK	135	69	12.42	12.42	12.42	14.0	0.0	
100	QPSK	135	138	12.32	12.32	12.32	14.0	0.0	
100	QPSK	270	0	12.38	12.38	12.38	14.0	0.0	
100	16QAM	1	1	12.46	12.46	12.46	14.0	0.0	
100	64QAM	1	1	12.40	12.40	12.40	14.0	0.0	
100	256QAM	1	1	12.43	12.43	12.43	14.0	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	12.33	12.32	12.31	14.0	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	12.42	12.40	12.33	14.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	12.38	12.34	12.32	14.0	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	12.27	12.39	12.44	14.0	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	12.35	12.31	12.36	14.0	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	12.39	12.31	12.39	14.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	12.32	12.40	12.33	14.0	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	12.43	12.32	12.40	14.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	12.29	12.28	12.40	14.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	12.32	12.31	12.40	14.0	0.0	

Part270 n78 PC2 Main PA Ant3 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dBm)	Power Middle Ch. / Freq. (dBm)	Power High Ch. / Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pi/2 BPSK	1	1	15.42	15.49	15.49			
100	Pi/2 BPSK	1	137	15.55	15.55	15.55	17.0	0.0	
100	Pi/2 BPSK	1	271	15.37	15.37	15.37	17.0	0.0	
100	Pi/2 BPSK	135	0	15.47	15.47	15.47	17.0	0.0	
100	Pi/2 BPSK	135	69	15.54	15.54	15.54	17.0	0.0	
100	Pi/2 BPSK	135	138	15.42	15.42	15.42	17.0	0.0	
100	Pi/2 BPSK	270	0	15.58	15.58	15.58	17.0	0.0	
100	QPSK	1	1	15.40	15.40	15.40	17.0	0.0	
100	QPSK	1	137	15.51	15.51	15.51	17.0	0.0	
100	QPSK	1	271	15.50	15.50	15.50	17.0	0.0	
100	QPSK	135	0	15.42	15.42	15.42	17.0	0.0	
100	QPSK	135	69	15.58	15.58	15.58	17.0	0.0	
100	QPSK	135	138	15.41	15.41	15.41	17.0	0.0	
100	QPSK	270	0	15.59	15.59	15.59	17.0	0.0	
100	16QAM	1	1	15.53	15.53	15.53	17.0	0.0	
100	64QAM	1	1	15.40	15.40	15.40	17.0	0.0	
100	256QAM	1	1	15.39	15.39	15.39	17.0	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.39	15.48	15.56	17.0	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.54	15.40	15.55	17.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.38	15.43	15.44	17.0	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.56	15.47	15.49	17.0	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.50	15.46	15.57	17.0	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.49	15.57	15.55	17.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	15.57	15.43	15.44	17.0	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	15.40	15.37	15.43	17.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1	15.56	15.46	15.49	17.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	15.40	15.58	15.41	17.0	0.0	



Part270 n77 Ant5 DS10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65500	Power High Ch. / Freq. 66000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	17.86	17.90	17.99			
100	PI2 BPSK	1	137	17.77	17.88	18.07	18.8	0.0	
100	PI2 BPSK	1	271	17.71	18.05	18.00			
100	PI2 BPSK	135	0	17.89	17.93	17.86	18.8	0.0	
100	PI2 BPSK	135	69	17.84	17.99	17.92	18.8	0.0	
100	PI2 BPSK	135	138	17.68	18.03	17.96	18.8	0.0	
100	PI2 BPSK	270	0	17.74	17.90	17.94			
100	QPSK	1	1	17.75	18.08	17.86			
100	QPSK	1	137	17.83	18.07	17.95	18.8	0.0	
100	QPSK	1	271	17.74	17.92	17.92			
100	QPSK	135	0	17.86	17.99	17.94	18.8	0.0	
100	QPSK	135	69	17.81	18.08	18.02	18.8	0.0	
100	QPSK	135	138	17.80	18.04	17.86	18.8	0.0	
100	QPSK	270	0	17.78	18.05	17.97			
100	16QAM	1	1	17.80	18.04	17.93	18.8	0.0	
100	16QAM	1	1	17.68	17.98	17.89	18.8	0.0	
100	256QAM	1	1	17.84	18.08	17.90	18.8	0.0	
Channel				64898	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.79	17.87	17.85	18.8	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.87	18.05	17.85	18.8	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.68	18.00	17.88	18.8	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.69	17.98	18.00	18.8	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.75	17.99	17.99	18.8	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.79	17.94	17.88	18.8	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	17.80	18.00	17.98	18.8	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.87	17.95	17.88	18.8	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3971.51			
15	QPSK	1	1	17.89	17.93	17.94	18.8	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.75	18.04	17.89	18.8	0.0	

Part270 n77 PC2 Ant5 DS10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65500	Power High Ch. / Freq. 66000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	20.76	20.92	20.79			
100	PI2 BPSK	1	137	20.68	20.96	20.73	21.8	0.0	
100	PI2 BPSK	1	271	20.86	20.92	20.76			
100	PI2 BPSK	135	0	20.89	20.99	20.70	21.8	0.0	
100	PI2 BPSK	135	69	20.83	20.93	20.86	21.8	0.0	
100	PI2 BPSK	135	138	20.73	21.03	20.82	21.8	0.0	
100	PI2 BPSK	270	0	20.81	20.85	20.74			
100	QPSK	1	1	20.84	21.10	20.86			
100	QPSK	1	137	20.75	21.08	20.80	21.8	0.0	
100	QPSK	1	271	20.86	20.88	20.78			
100	QPSK	135	0	20.79	21.02	20.80	21.8	0.0	
100	QPSK	135	69	20.90	21.05	20.72	21.8	0.0	
100	QPSK	135	138	20.77	20.85	20.80	21.8	0.0	
100	QPSK	270	0	20.73	21.03	20.81			
100	16QAM	1	1	20.68	20.99	20.76	21.8	0.0	
100	16QAM	1	1	20.81	20.91	20.60	21.8	0.0	
100	256QAM	1	1	20.88	20.88	20.61	21.8	0.0	
Channel				64898	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	20.89	20.96	20.83	21.8	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.84	20.93	20.82	21.8	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.70	20.88	20.85	21.8	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.87	20.94	20.84	21.8	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	20.78	21.02	20.76	21.8	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.86	20.97	20.82	21.8	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	20.77	21.00	20.79	21.8	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	20.73	21.03	20.60	21.8	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3971.51			
15	QPSK	1	1	20.73	21.00	20.63	21.8	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.85	20.93	20.77	21.8	0.0	



Part270 n78 Ant5 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.06				
100	PI2 BPSK	1	137		17.88		18.8	0.0	
100	PI2 BPSK	1	271		17.98				
100	PI2 BPSK	135	0		17.99		18.8	0.0	
100	PI2 BPSK	135	69		17.98		18.8	0.0	
100	PI2 BPSK	135	138		17.88		18.8	0.0	
100	PI2 BPSK	270	0		17.91				
100	QPSK	1	1		18.08		18.8	0.0	
100	QPSK	1	137		18.05				
100	QPSK	1	271		18.03				
100	QPSK	135	0		17.96		18.8	0.0	
100	QPSK	135	69		18.03		18.8	0.0	
100	QPSK	135	138		18.01		18.8	0.0	
100	QPSK	270	0		18.00				
100	16QAM	1	1		18.01		18.8	0.0	
100	16QAM	1	1		18.05		18.8	0.0	
100	16QAM	1	1		17.98		18.8	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		18.04	18.02	18.8	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3749.01	3750	3759.02			
80	QPSK	1	1		17.87	18.07	17.84	18.8	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		17.97	18.02	17.97	18.8	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3720.01			
60	QPSK	1	1		17.97	18.01	17.90	18.8	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3725.02			
50	QPSK	1	1		17.93	18.03	17.80	18.8	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.06	17.95	18.00	18.8	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3715.01			
30	QPSK	1	1		18.05	18.02	18.02	18.8	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		17.86	17.93	17.92	18.8	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1		17.95	17.92	18.04	18.8	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		17.95	18.04	18.04	18.8	0.0

Part270 n78 PC2 Ant5 DSI10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		20.97				
100	PI2 BPSK	1	137		20.96		21.8	0.0	
100	PI2 BPSK	1	271		21.06				
100	PI2 BPSK	135	0		20.90		21.8	0.0	
100	PI2 BPSK	135	69		21.00		21.8	0.0	
100	PI2 BPSK	135	138		20.86		21.8	0.0	
100	PI2 BPSK	270	0		21.01				
100	QPSK	1	1		21.08		21.8	0.0	
100	QPSK	1	137		20.92				
100	QPSK	1	271		20.87				
100	QPSK	135	0		20.89		21.8	0.0	
100	QPSK	135	69		21.06		21.8	0.0	
100	QPSK	135	138		20.96		21.8	0.0	
100	QPSK	270	0		21.05				
100	16QAM	1	1		21.02		21.8	0.0	
100	16QAM	1	1		20.97		21.8	0.0	
100	16QAM	1	1		21.02		21.8	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.95	20.93	20.91	21.8	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.96	20.88	20.89	21.8	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.04	20.99	20.87	21.8	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3720.01			
60	QPSK	1	1		20.91	20.95	21.04	21.8	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3725.02			
50	QPSK	1	1		21.03	21.00	21.03	21.8	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		20.94	20.94	20.97	21.8	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3715.01			
30	QPSK	1	1		21.03	21.07	20.89	21.8	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.85	20.92	21.00	21.8	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.53	3750	3722.51			
15	QPSK	1	1		20.96	20.98	20.99	21.8	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		20.89	21.05	20.96	21.8	0.0





Full&Default Power Mode Other PA

n2 Other PA Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.44	23.56	23.54		
20	PI/2 BPSK	1	53	23.48	23.80	23.52	25.0	0.0
20	PI/2 BPSK	1	104	23.50	23.54	23.36		
20	PI/2 BPSK	50	0	23.76	23.91	23.78	25.0	0.0
20	PI/2 BPSK	50	20	23.89	23.93	23.77	25.0	0.0
20	PI/2 BPSK	50	56	23.69	23.87	23.73	25.0	0.0
20	PI/2 BPSK	100	0	23.79	23.96	23.58		
20	QPSK	1	1	23.98	24.04	23.95		
20	QPSK	1	53	23.98	23.99	23.89	25.0	0.0
20	QPSK	1	104	23.90	23.95	23.74		
20	QPSK	50	0	23.82	23.92	23.80	25.0	0.0
20	QPSK	50	28	23.87	23.95	23.82	25.0	0.0
20	QPSK	50	56	23.86	23.92	23.72	25.0	0.0
20	QPSK	100	0	23.85	23.94	23.87		
20	16QAM	1	1	23.71	23.87	23.83	25.0	0.0
20	64QAM	1	1	22.54	22.57	22.38	24.0	1.0
20	256QAM	1	1	20.75	20.94	20.89	22.0	3.0
Channel				371500	376000	380500		
Frequency (MHz)				1872.5	1893	1924.5		
15	QPSK	1	1	23.90	24.00	23.91	25.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.94	23.94	23.91	25.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1822.5	1880	1927.5		
5	QPSK	1	1	23.76	23.84	23.80	25.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.87	24.01	23.95		
40	PI/2 BPSK	1	108	24.05	24.04	23.99	25.0	0.0
40	PI/2 BPSK	1	214	23.92	23.95	23.78		
40	PI/2 BPSK	108	0	23.85	24.02	24.02	25.0	0.0
40	PI/2 BPSK	108	54	23.92	24.03	23.81	25.0	0.0
40	PI/2 BPSK	108	108	23.86	24.03	23.94	25.0	0.0
40	PI/2 BPSK	216	0	23.99	24.02	23.98		
40	QPSK	1	1	23.86	24.09	24.02		
40	QPSK	1	108	23.82	24.00	23.95	25.0	0.0
40	QPSK	1	214	23.95	23.97	23.86		
40	QPSK	108	0	24.00	24.00	23.98	25.0	0.0
40	QPSK	108	54	23.97	24.05	24.00	25.0	0.0
40	QPSK	108	108	23.88	23.98	23.89	25.0	0.0
40	QPSK	216	0	23.98	24.07	24.02		
40	16QAM	1	1	23.86	24.00	23.83	25.0	0.0
40	64QAM	1	1	22.52	22.53	22.31	24.0	1.0
40	256QAM	1	1	20.57	20.74	20.68	22.0	3.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.98	23.99	23.95	25.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.86	24.08	23.82	25.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.71	23.87	23.86	25.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.84	23.87	23.80	25.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.87	24.07	23.88	25.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.85	24.08	23.81	25.0	0.0

n66 Other PA Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	345000	345000		
Frequency (MHz)				1725	1745	1765		
40	PI/2 BPSK	1	1	23.37	23.51	23.37		
40	PI/2 BPSK	1	108	23.15	23.29	23.31	25.0	0.0
40	PI/2 BPSK	1	214	23.39	23.38	23.22		
40	PI/2 BPSK	108	0	23.29	23.40	23.29	25.0	0.0
40	PI/2 BPSK	108	54	23.29	23.30	23.19	25.0	0.0
40	PI/2 BPSK	108	108	23.22	23.41	23.41	25.0	0.0
40	PI/2 BPSK	216	0	23.27	23.33	23.18		
40	QPSK	1	1	23.54	23.60	23.51		
40	QPSK	1	108	23.20	23.32	23.28	25.0	0.0
40	QPSK	1	214	23.34	23.49	23.33		
40	QPSK	108	0	23.33	23.43	23.23	25.0	0.0
40	QPSK	108	54	23.52	23.58	23.52	25.0	0.0
40	QPSK	108	108	23.43	23.41	23.32	25.0	0.0
40	QPSK	216	0	23.47	23.51	23.50		
40	16QAM	1	1	23.37	23.58	23.39	25.0	0.0
40	64QAM	1	1	22.04	22.18	22.05	24.0	1.0
40	256QAM	1	1	20.14	20.24	20.16	22.0	3.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.55	23.59	23.37	25.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.35	23.42	23.37	25.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
15	QPSK	1	1	23.45	23.42	23.38	25.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.44	23.45	23.48	25.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.44	23.56	23.33	25.0	0.0



n38 Other PA Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	23.63	23.78	23.79	
40	PI/2 BPSK	1	53	23.73	23.73	23.71	25.0
40	PI/2 BPSK	1	104	23.59	23.66	23.57	
40	PI/2 BPSK	50	0	23.23	23.32	23.24	24.5
40	PI/2 BPSK	50	28	23.69	23.73	23.62	25.0
40	PI/2 BPSK	50	56	23.65	23.78	23.62	24.5
40	PI/2 BPSK	100	0	23.34	23.38	23.33	
40	QPSK	1	1	23.76	23.82	23.79	
40	QPSK	1	53	23.68	23.80	23.72	25.0
40	QPSK	1	104	23.64	23.63	23.45	
40	QPSK	50	0	23.10	23.32	23.32	24.0
40	QPSK	50	28	23.65	23.74	23.67	25.0
40	QPSK	80	56	23.57	23.72	23.66	24.0
40	QPSK	100	0	22.71	22.73	22.66	
40	16QAM	1	1	22.80	22.74	22.52	24.0
40	16QAM	1	1	21.08	21.23	21.06	22.5
40	256QAM	1	1	19.19	19.41	19.37	20.5
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	23.71	23.81	23.58	25.0
Channel				516000	519000	522000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	23.77	23.67	23.80	25.0
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	23.64	23.77	23.74	25.0
Channel				515004	519000	522998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	23.61	23.68	23.59	25.0

n41 Other PA Ant0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				509202	518598	528000	
100	PI/2 BPSK	1	1	23.84	23.83	23.68	
100	PI/2 BPSK	1	137	23.49	23.64	23.44	25.0
100	PI/2 BPSK	1	271	23.47	23.51	23.51	
100	PI/2 BPSK	135	0	23.82	23.72	23.74	25.0
100	PI/2 BPSK	135	69	23.53	23.61	23.43	25.0
100	PI/2 BPSK	135	138	23.43	23.47	23.39	25.0
100	PI/2 BPSK	270	0	23.42	23.56	23.51	
100	QPSK	1	1	23.44	23.46	23.53	
100	QPSK	1	137	23.49	23.57	23.48	25.0
100	QPSK	1	271	23.48	23.50	23.38	
100	QPSK	135	0	23.61	23.71	23.64	25.0
100	QPSK	135	69	23.63	23.75	23.61	25.0
100	QPSK	135	138	23.44	23.42	23.41	
100	QPSK	270	0	23.52	23.57	23.55	25.0
100	16QAM	1	1	23.89	23.76	23.57	25.0
100	16QAM	1	1	22.82	23.00	22.83	24.0
100	256QAM	1	1	21.09	21.21	21.10	22.0
Channel				509200	518598	528000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	23.42	23.80	23.37	25.0
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	23.35	23.61	23.32	25.0
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	23.36	23.78	23.52	25.0
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	23.42	23.85	23.37	25.0
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	23.27	23.68	23.39	25.0
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	23.41	23.77	23.37	25.0
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	23.44	23.63	23.51	25.0
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	23.28	23.87	23.54	25.0



### n2 Other PA Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	23.06	23.58	23.41		
20	PI2 BPSK	1	53	23.50	23.53	23.40	25.0	0.0
20	PI2 BPSK	1	164	23.33	23.52	23.51		
20	PI2 BPSK	50	0	23.31	23.43	23.27	25.0	0.0
20	PI2 BPSK	50	28	23.23	23.41	23.25	25.0	0.0
20	PI2 BPSK	50	58	23.23	23.42	23.35	25.0	0.0
20	PI2 BPSK	100	0	23.51	23.53	23.35		
20	QPSK	1	1	23.04	23.66	23.38		
20	QPSK	1	53	23.47	23.61	23.50	25.0	0.0
20	QPSK	1	104	23.58	23.58	23.52		
20	QPSK	50	0	23.36	23.51	23.48	25.0	0.0
20	QPSK	50	28	23.54	23.59	23.57	25.0	0.0
20	QPSK	50	58	23.41	23.46	23.40	25.0	0.0
20	QPSK	100	0	23.47	23.55	23.54		
20	16QAM	1	1	23.60	23.61	23.44	25.0	0.0
20	16QAM	1	1	22.17	22.23	22.07	24.0	1.0
20	256QAM	1	1	20.08	20.25	20.05	22.0	3.0
Channel								
Frequency (MHz)				37500	37600	38000		
15	QPSK	1	1	23.63	23.50	23.42	25.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000		
10	QPSK	1	1	1855	1860	1905	25.0	0.0
Channel								
Frequency (MHz)				375500	376000	381500		
5	QPSK	1	1	1852.5	1860	1907.5	25.0	0.0

### n7 Other PA Ant1

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	23.23	23.30	23.21		
40	PI2 BPSK	1	108	23.21	23.39	23.38	24.0	0.0
40	PI2 BPSK	1	214	23.21	23.25	23.13		
40	PI2 BPSK	108	0	23.15	23.22	23.14	24.0	0.0
40	PI2 BPSK	108	54	23.13	23.28	23.16	24.0	0.0
40	PI2 BPSK	108	108	23.25	23.26	23.14	24.0	0.0
40	PI2 BPSK	216	0	23.21	23.28	23.22		
40	QPSK	1	1	23.37	23.45	23.36		
40	QPSK	1	108	23.21	23.33	23.31	24.0	0.0
40	QPSK	1	214	23.22	23.34	23.18		
40	QPSK	108	0	23.14	23.33	23.21	24.0	0.0
40	QPSK	108	54	23.35	23.37	23.35	24.0	0.0
40	QPSK	108	108	23.21	23.34	23.34	24.0	0.0
40	QPSK	216	0	23.30	23.32	23.28		
40	16QAM	1	1	23.07	23.25	23.08	24.0	0.0
40	16QAM	1	1	22.32	22.35	22.15	23.0	1.0
40	256QAM	1	1	20.08	20.07	20.04	21.0	3.0
Channel								
Frequency (MHz)				50300	50700	51100		
30	QPSK	1	1	23.23	23.37	23.19	24.0	0.0
Channel								
Frequency (MHz)				50200	50700	51150		
25	QPSK	1	1	2572.5	2535	2577.5	24.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000		
20	PI2 BPSK	1	1	23.20	23.28	23.34	24.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500		
15	QPSK	1	1	23.32	23.31	23.21	24.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000		
10	QPSK	1	1	23.30	23.32	23.30	24.0	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.20	23.31	23.21	24.0	0.0

### n66 Other PA Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.86	22.97	22.96		
40	PI2 BPSK	1	108	22.75	22.85	22.72	24.0	0.0
40	PI2 BPSK	1	214	22.75	22.90	22.88		
40	PI2 BPSK	108	0	22.81	22.87	22.89	24.0	0.0
40	PI2 BPSK	108	54	22.79	22.83	22.76	24.0	0.0
40	PI2 BPSK	108	108	22.75	22.87	22.88	24.0	0.0
40	PI2 BPSK	216	0	22.78	22.96	22.84		
40	QPSK	1	1	22.86	23.01	22.93		
40	QPSK	1	108	22.71	22.79	22.78	24.0	0.0
40	QPSK	1	214	22.78	22.95	22.95		
40	QPSK	108	0	22.79	22.84	22.64	24.0	0.0
40	QPSK	108	54	22.81	22.87	22.83	24.0	0.0
40	QPSK	108	108	22.75	22.87	22.78	24.0	0.0
40	QPSK	216	0	22.91	22.96	22.96		
40	16QAM	1	1	22.79	22.87	22.82	24.0	0.0
40	16QAM	1	1	21.85	21.70	21.49	23.0	1.0
40	256QAM	1	1	19.59	19.77	19.56	21.0	3.0
Channel								
Frequency (MHz)				34500	34500	35000		
30	QPSK	1	1	23.00	22.88	22.83	24.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000		
20	QPSK	1	1	1720	1745	1770	24.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500		
15	QPSK	1	1	1717.5	1745	1772.5	24.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000		
10	QPSK	1	1	1715	1745	1775	24.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500		
5	QPSK	1	1	1712.5	1745	1777.5	24.0	0.0



n38 Other PA Ant1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	22.99	22.99	22.93	
40	PI/2 BPSK	1	53	22.97	23.02	23.02	24.0
40	PI/2 BPSK	1	104	23.10	23.15	23.07	
40	PI/2 BPSK	50	0	22.42	22.59	22.55	23.5
40	PI/2 BPSK	50	28	22.85	22.95	22.91	24.0
40	PI/2 BPSK	50	56	22.48	22.65	22.59	23.5
40	PI/2 BPSK	100	0	22.54	22.58	22.49	
40	QPSK	1	1	23.14	23.17	23.02	
40	QPSK	1	53	22.85	22.98	22.96	24.0
40	QPSK	1	104	22.97	23.04	22.98	
40	QPSK	50	0	21.94	22.12	22.13	23.0
40	QPSK	50	28	22.87	22.88	22.91	24.0
40	QPSK	80	56	21.98	22.07	21.90	23.0
40	QPSK	100	0	22.01	22.11	22.08	
40	16QAM	1	1	22.35	22.36	22.17	23.0
40	16QAM	1	1	20.18	20.29	20.15	21.5
40	256QAM	1	1	18.31	18.33	18.28	19.5
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				5170.02	5190.00	5209.98	
30	QPSK	1	1	23.05	23.11	23.00	24.0
Channel				516000	519000	520000	
Frequency (MHz)				516000	519000	520000	
20	QPSK	1	1	22.84	23.08	23.01	24.0
Channel				515502	519000	522498	
Frequency (MHz)				515502	519000	522498	
15	QPSK	1	1	23.01	23.16	22.84	24.0
Channel				515004	519000	523998	
Frequency (MHz)				515004	519000	523998	
10	QPSK	1	1	22.93	23.01	23.02	24.0

n41 Other PA Ant1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.10	23.13	22.92	
100	PI/2 BPSK	1	137	22.86	23.07	22.95	24.0
100	PI/2 BPSK	1	271	22.83	23.04	22.91	
100	PI/2 BPSK	135	0	22.98	23.08	23.00	24.0
100	PI/2 BPSK	135	69	22.85	23.02	22.91	24.0
100	PI/2 BPSK	135	138	22.97	22.97	22.90	24.0
100	PI/2 BPSK	270	0	22.89	23.00	22.84	
100	QPSK	1	1	23.01	23.24	23.06	
100	QPSK	1	137	23.06	23.18	23.01	24.0
100	QPSK	1	271	22.79	23.00	22.89	
100	QPSK	135	0	22.79	22.98	22.80	24.0
100	QPSK	135	69	22.95	23.03	22.91	24.0
100	QPSK	135	138	22.74	22.88	22.73	24.0
100	QPSK	270	0	22.87	23.01	22.88	
100	16QAM	1	1	22.92	23.00	22.98	24.0
100	16QAM	1	1	22.02	22.08	21.92	23.0
100	256QAM	1	1	19.88	20.04	20.01	21.0
Channel				509000	518998	528998	
Frequency (MHz)				509000	518998	528998	
90	QPSK	1	1	23.02	23.08	22.91	24.0
Channel				507204	518998	529998	
Frequency (MHz)				507204	518998	529998	
80	QPSK	1	1	22.85	23.23	23.07	24.0
Channel				506202	518998	531000	
Frequency (MHz)				506202	518998	531000	
70	QPSK	1	1	22.83	23.06	23.08	24.0
Channel				505200	518998	531998	
Frequency (MHz)				505200	518998	531998	
60	QPSK	1	1	22.82	23.20	22.93	24.0
Channel				504204	518998	532998	
Frequency (MHz)				504204	518998	532998	
50	QPSK	1	1	22.84	23.15	22.88	24.0
Channel				503202	518998	533000	
Frequency (MHz)				503202	518998	533000	
40	QPSK	1	1	22.90	23.08	22.92	24.0
Channel				502200	518998	534998	
Frequency (MHz)				502200	518998	534998	
30	QPSK	1	1	22.87	23.03	22.94	24.0
Channel				501204	518998	535998	
Frequency (MHz)				501204	518998	535998	
20	QPSK	1	1	22.89	23.08	22.84	24.0



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	64QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Channel				1925	1930	1935		
10	QPSK	1	1	21.26	21.39	21.14	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dB)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	22.25	22.40	22.25		
40	PI2 BPSK	1	108	22.45	22.45	22.32	24.0	0.0
40	PI2 BPSK	1	214	22.25	22.42	22.24		
40	PI2 BPSK	108	0	22.21	22.38	22.35	24.0	0.0
40	PI2 BPSK	108	54	22.34	22.37	22.23	24.0	0.0
40	PI2 BPSK	108	108	22.26	22.25	22.14	24.0	0.0
40	PI2 BPSK	216	0	22.43	22.46	22.46		
40	QPSK	1	1	22.38	22.05	22.58		
40	QPSK	1	108	22.42	22.81	22.53	24.0	0.0
40	QPSK	1	214	22.38	22.60	22.51		
40	QPSK	108	0	22.28	22.34	22.30	24.0	0.0
40	QPSK	108	54	22.31	22.48	22.32	24.0	0.0
40	QPSK	108	108	22.34	22.45	22.28	24.0	0.0
40	QPSK	216	0	22.33	22.50	22.42		
40	16QAM	1	1	22.06	22.12	22.08	24.0	0.0
40	64QAM	1	1	21.10	21.14	21.14	23.0	1.0
40	256QAM	1	1	19.21	19.33	19.15	21.0	3.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	22.36	22.52	22.47	24.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	22.40	22.56	22.38	24.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	22.26	22.44	22.38	24.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	22.18	22.43	22.45	24.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	22.20	22.50	22.37	24.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	22.19	22.63	22.49	24.0	0.0

### n66 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.12	21.18	21.11		
40	PI2 BPSK	1	108	21.03	21.19	21.04	23.0	0.0
40	PI2 BPSK	1	214	21.08	21.15	21.04		
40	PI2 BPSK	108	0	21.11	21.13	21.07	23.0	0.0
40	PI2 BPSK	108	54	21.01	21.13	21.06	23.0	0.0
40	PI2 BPSK	108	108	21.03	21.15	21.08	23.0	0.0
40	PI2 BPSK	216	0	21.06	21.13	21.08		
40	QPSK	1	1	21.17	21.23	21.13		
40	QPSK	1	108	21.10	21.14	21.12	23.0	0.0
40	QPSK	1	214	21.22	21.22	21.03		
40	QPSK	108	0	21.03	21.15	21.06	23.0	0.0
40	QPSK	108	54	21.15	21.17	21.16	23.0	0.0
40	QPSK	108	108	21.10	21.14	21.08	23.0	0.0
40	QPSK	216	0	21.13	21.15	21.14		
40	16QAM	1	1	21.13	21.16	21.04	23.0	0.0
40	64QAM	1	1	20.25	20.24	20.05	22.0	1.0
40	256QAM	1	1	18.02	18.23	18.12	20.0	3.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	21.11	21.21	21.10	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	21.14	21.18	21.01	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dB)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	21.07	21.21	21.13	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	21.14	21.08	21.02	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	21.02	21.12	21.05	23.0	0.0



n38 Other PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519500	519596	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	22.48	22.50	22.50	
40	PI/2 BPSK	1	53	22.40	22.46	22.39	24.0
40	PI/2 BPSK	1	104	22.51	22.55	22.54	
40	PI/2 BPSK	50	0	22.03	22.15	22.12	23.5
40	PI/2 BPSK	50	28	22.34	22.52	22.41	24.0
40	PI/2 BPSK	50	56	22.18	22.17	22.06	23.5
40	PI/2 BPSK	100	0	21.86	22.08	22.06	
40	QPSK	1	1	22.55	22.63	22.58	
40	QPSK	1	53	22.33	22.45	22.23	24.0
40	QPSK	1	104	22.61	22.62	22.42	
40	QPSK	50	0	21.52	21.51	21.52	23.0
40	QPSK	50	28	22.53	22.59	22.57	24.0
40	QPSK	80	56	21.46	21.61	21.61	23.0
40	QPSK	100	0	21.47	21.52	21.44	
40	16QAM	1	1	21.26	21.32	21.25	23.0
40	16QAM	1	1	20.19	20.25	20.06	21.5
40	256QAM	1	1	18.24	18.23	18.02	19.5
Channel				517002	519000	520000	
Frequency (MHz)				2585.01	2585	2604.99	
30	QPSK	1	1	22.48	22.53	22.54	24.0
Channel				516000	519000	520000	
Frequency (MHz)				2570	2575	2610	
20	QPSK	1	1	22.55	22.51	22.44	24.0
Channel				515502	519000	520498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	22.40	22.57	22.50	24.0
Channel				515004	519000	520998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	22.34	22.47	22.59	24.0

n41 Other PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				5242	52600	526000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.81	22.88	22.84	
100	PI/2 BPSK	1	137	22.96	22.98	22.81	24.0
100	PI/2 BPSK	1	271	22.76	22.78	22.76	
100	PI/2 BPSK	135	0	22.82	22.98	22.84	24.0
100	PI/2 BPSK	135	69	22.89	22.91	22.89	24.0
100	PI/2 BPSK	135	138	22.57	22.71	22.60	24.0
100	PI/2 BPSK	270	0	22.88	22.87	22.86	
100	QPSK	1	1	22.48	22.60	22.85	
100	QPSK	1	137	22.76	22.81	22.74	24.0
100	QPSK	1	271	22.55	22.65	22.45	
100	QPSK	135	0	22.74	22.86	22.74	24.0
100	QPSK	135	69	22.82	22.92	22.87	24.0
100	QPSK	135	138	22.76	22.77	22.58	24.0
100	QPSK	270	0	22.75	22.82	22.78	
100	16QAM	1	1	22.74	22.91	22.78	24.0
100	16QAM	1	1	22.07	22.21	22.01	23.0
100	256QAM	1	1	20.40	20.59	20.60	21.0
Channel				506000	518000	520000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	22.44	22.87	22.74	24.0
Channel				507204	518598	520998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	22.42	22.69	22.85	24.0
Channel				506202	518598	521000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.41	22.93	22.69	24.0
Channel				505200	518598	521998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	22.31	22.91	22.86	24.0
Channel				504204	518598	522998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.46	22.52	22.37	24.0
Channel				503202	518598	523000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.31	22.84	22.72	24.0
Channel				502200	518598	524998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	22.35	22.63	22.19	24.0
Channel				501204	518598	525998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.40	22.91	22.75	24.0



### n2 Other PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	22.13	22.30	22.19		
20	PI2 BPSK	1	53	22.17	22.25	22.11	23.0	0.0
20	PI2 BPSK	1	104	22.22	22.22	22.09	23.0	0.0
20	PI2 BPSK	50	0	22.12	22.24	22.09	23.0	0.0
20	PI2 BPSK	50	28	22.06	22.28	22.29	23.0	0.0
20	PI2 BPSK	50	58	22.24	22.23	22.03	23.0	0.0
20	PI2 BPSK	100	0	22.06	22.26	22.27		
20	QPSK	1	1	22.36	22.41	22.35		
20	QPSK	1	53	22.24	22.31	22.28	23.0	0.0
20	QPSK	1	104	22.20	22.33	22.32		
20	QPSK	50	0	22.25	22.29	22.19	23.0	0.0
20	QPSK	50	28	22.25	22.32	22.18	23.0	0.0
20	QPSK	50	58	22.06	22.26	22.22	23.0	0.0
20	QPSK	100	0	22.21	22.23	22.19		
20	16QAM	1	1	22.21	22.23	22.10	23.0	0.0
20	16QAM	1	1	20.88	20.94	20.78	22.0	1.0
20	256QAM	1	1	19.23	19.29	19.12	20.0	3.0
Channel								
Frequency (MHz)				37500	37600	38000	Tune-up limit (dB)	MPR (dB)
Channel				37500	37600	38000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.17	22.31	22.19	23.0	0.0
Channel								
Frequency (MHz)				376000	376000	381000	Tune-up limit (dB)	MPR (dB)
Channel				37600	376000	381000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	22.23	22.33	22.30	23.0	0.0
Channel								
Frequency (MHz)				375000	376000	381500	Tune-up limit (dB)	MPR (dB)
Channel				1852.5	1860	1907.5	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	22.17	22.37	22.19	23.0	0.0

### n7 Other PA Ant3

BW (MHz)	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)				2620	2635	2650		
40	PI2 BPSK	1	1	22.93	23.15	23.03		
40	PI2 BPSK	1	108	22.99	23.17	23.04	24.0	0.0
40	PI2 BPSK	1	214	23.00	23.17	23.03	24.0	0.0
40	PI2 BPSK	108	0	23.01	23.14	23.07	24.0	0.0
40	PI2 BPSK	108	54	23.07	23.17	22.99	24.0	0.0
40	PI2 BPSK	108	108	23.11	23.14	23.10	24.0	0.0
40	PI2 BPSK	216	0	22.95	23.12	22.91		
40	QPSK	1	1	23.16	23.20	23.18		
40	QPSK	1	108	23.03	23.11	23.05	24.0	0.0
40	QPSK	1	214	22.93	23.09	22.98		
40	QPSK	108	0	23.14	23.16	23.09	24.0	0.0
40	QPSK	108	54	23.12	23.18	23.10	24.0	0.0
40	QPSK	108	108	23.09	23.13	23.10	24.0	0.0
40	QPSK	216	0	23.00	23.12	23.03		
40	16QAM	1	1	22.98	23.12	23.04	24.0	0.0
40	16QAM	1	1	21.74	21.81	21.77	23.0	1.0
40	256QAM	1	1	20.14	20.14	19.93	21.0	3.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Channel				2615	2635	2655	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.12	23.00	23.04	24.0	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
Channel				2612.5	2635	2657.5	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.03	23.04	22.99	24.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				2610	2635	2650	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	23.00	23.01	23.19	24.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				2607.5	2635	2662.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.01	23.04	23.10	24.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				2505	2635	2665	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.12	23.00	22.99	24.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				2502.5	2635	2667.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.17	23.01	22.97	24.0	0.0

### n66 Other PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.01	22.14	22.10		
40	PI2 BPSK	1	108	21.98	22.02	21.97	23.0	0.0
40	PI2 BPSK	1	214	21.82	22.01	21.81	23.0	0.0
40	PI2 BPSK	108	0	22.09	22.12	22.14	23.0	0.0
40	PI2 BPSK	108	54	22.05	22.06	21.88	23.0	0.0
40	PI2 BPSK	108	108	21.87	22.05	22.00	23.0	0.0
40	PI2 BPSK	216	0	21.98	22.08	22.09		
40	QPSK	1	1	22.04	22.16	22.01		
40	QPSK	1	108	21.83	21.90	21.71	23.0	0.0
40	QPSK	1	214	21.86	22.03	21.86		
40	QPSK	108	0	21.90	22.11	21.97	23.0	0.0
40	QPSK	108	54	21.81	21.98	21.93	23.0	0.0
40	QPSK	108	108	21.85	22.07	21.95	23.0	0.0
40	QPSK	216	0	21.97	22.13	21.91		
40	16QAM	1	1	21.80	21.78	21.69	23.0	0.0
40	16QAM	1	1	20.67	20.69	20.63	22.0	1.0
40	256QAM	1	1	19.00	18.99	19.00	20.0	3.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.95	22.04	22.02	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.09	22.15	21.81	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Channel				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.97	22.00	22.02	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.92	22.08	21.97	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.88	22.11	21.99	23.0	0.0



n38 Other PA Ant3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5195.00	5199.96	
40	PI/2 BPSK	1	1	22.91	23.08	22.99	
40	PI/2 BPSK	1	53	22.87	23.04	22.89	24.0
40	PI/2 BPSK	1	104	22.98	23.10	23.05	
40	PI/2 BPSK	50	0	22.52	22.57	22.45	23.5
40	PI/2 BPSK	50	28	22.88	23.02	22.93	24.0
40	PI/2 BPSK	50	56	22.36	22.55	22.53	23.5
40	PI/2 BPSK	100	0	22.59	22.65	22.63	
40	QPSK	1	1	23.14	23.18	23.16	
40	QPSK	1	53	22.91	22.99	22.80	24.0
40	QPSK	1	104	23.03	23.10	23.11	
40	QPSK	50	0	22.04	22.12	22.11	23.0
40	QPSK	50	28	23.00	23.01	22.99	24.0
40	QPSK	80	56	21.88	22.04	21.82	23.0
40	QPSK	100	0	22.02	22.15	22.14	
40	16QAM	1	1	21.91	21.93	21.71	23.0
40	16QAM	1	1	20.41	20.58	20.47	21.5
40	256QAM	1	1	18.47	18.64	18.43	19.5
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	22.97	23.00	23.09	24.0
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	23.00	23.11	23.09	24.0
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	22.94	23.03	22.95	24.0
Channel				515004	519000	522996	
Frequency (MHz)				2675.02	2595	2614.98	
10	QPSK	1	1	23.14	23.15	22.97	24.0

n41 Other PA Ant3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.02	5185.98	5280.00	
100	PI/2 BPSK	1	1	22.98	23.10	23.11	
100	PI/2 BPSK	1	137	22.73	22.92	22.92	24.0
100	PI/2 BPSK	1	271	22.75	22.87	22.88	
100	PI/2 BPSK	135	0	23.02	23.08	22.91	24.0
100	PI/2 BPSK	135	69	22.82	22.94	22.89	24.0
100	PI/2 BPSK	135	138	22.64	22.84	22.75	24.0
100	PI/2 BPSK	270	0	22.95	22.93	22.77	
100	QPSK	1	1	22.91	23.18	23.12	
100	QPSK	1	137	22.79	22.88	22.74	24.0
100	QPSK	1	271	22.80	22.89	22.90	
100	QPSK	135	0	22.81	22.96	22.94	24.0
100	QPSK	135	69	23.08	23.14	23.03	24.0
100	QPSK	185	138	22.77	22.77	22.76	24.0
100	QPSK	270	0	23.07	23.10	23.04	
100	16QAM	1	1	23.08	23.14	23.09	24.0
100	16QAM	1	1	22.38	22.45	22.32	23.0
100	256QAM	1	1	20.53	20.66	20.51	21.0
Channel				5090.00	5185.98	5280.98	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	22.80	23.10	23.06	24.0
Channel				507204	518598	529898	
Frequency (MHz)				2538.02	2592.99	2648.99	
80	QPSK	1	1	22.81	23.15	22.98	24.0
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.78	23.08	22.92	24.0
Channel				505200	518598	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	22.76	23.14	23.06	24.0
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.86	23.12	22.96	24.0
Channel				503202	518598	533900	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.81	23.00	23.03	24.0
Channel				502200	518598	534896	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	22.85	23.02	22.92	24.0
Channel				501204	518598	535898	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.93	23.06	22.96	24.0





### n2 Other PA Ant0 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				376000	376000	380000		
				1860	1860	1900		
20	PI2 BPSK	1	1	23.44	23.56	23.54		
20	PI2 BPSK	1	53	23.48	23.60	23.52	25.0	0.0
20	PI2 BPSK	1	104	23.50	23.54	23.36		
20	PI2 BPSK	50	0	23.76	23.91	23.78	25.0	0.0
20	PI2 BPSK	50	28	23.88	23.93	23.77	25.0	0.0
20	PI2 BPSK	50	56	23.89	23.87	23.73	25.0	0.0
20	PI2 BPSK	100	0	23.79	23.96	23.96	25.0	0.0
20	QPSK	1	1	23.98	24.04	23.95		
20	QPSK	1	53	23.98	23.99	23.89	25.0	0.0
20	QPSK	1	104	23.90	23.95	23.74		
20	QPSK	50	0	23.82	23.92	23.80	25.0	0.0
20	QPSK	50	28	23.87	23.95	23.82	25.0	0.0
20	QPSK	50	56	23.86	23.92	23.72	25.0	0.0
20	QPSK	100	0	23.85	23.94	23.87	25.0	0.0
20	16QAM	1	1	23.71	23.87	23.83	25.0	0.0
20	64QAM	1	1	22.54	22.57	22.38	24.0	1.0
20	256QAM	1	1	20.75	20.94	20.89	22.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
				1825.5	1860	1825.5	25.0	0.0
15	QPSK	1	1	23.90	24.00	23.91	25.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
				1855	1860	1905	25.0	0.0
10	QPSK	1	1	23.94	23.94	23.91	25.0	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
				1882.5	1860	1907.5	25.0	0.0
5	QPSK	1	1	23.76	23.84	23.80	25.0	0.0

### Reduced Power Mode for Other PA DSI2

### n7 Other PA Ant0 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				502000	507000	510000		
				2520	2535	2550		
40	PI2 BPSK	1	1	23.87	24.01	23.95		
40	PI2 BPSK	1	108	24.05	24.04	23.99	25.0	0.0
40	PI2 BPSK	1	214	23.92	23.95	23.78		
40	PI2 BPSK	108	0	23.95	24.02	24.02	25.0	0.0
40	PI2 BPSK	108	54	23.92	24.03	23.91	25.0	0.0
40	PI2 BPSK	108	108	23.86	24.03	23.94	25.0	0.0
40	PI2 BPSK	216	0	23.99	24.02	23.98	25.0	0.0
40	QPSK	1	1	23.88	24.09	24.02		
40	QPSK	1	108	23.92	24.00	23.95	25.0	0.0
40	QPSK	1	214	23.95	23.97	23.98		
40	QPSK	108	0	24.00	24.00	23.98	25.0	0.0
40	QPSK	108	54	23.97	24.05	24.00	25.0	0.0
40	QPSK	108	108	23.88	23.98	23.89	25.0	0.0
40	QPSK	216	0	23.98	24.07	24.02	25.0	0.0
40	16QAM	1	1	23.86	24.00	23.83	25.0	0.0
40	64QAM	1	1	22.52	22.53	22.31	24.0	1.0
40	256QAM	1	1	20.57	20.74	20.66	22.0	3.0
Channel								
Frequency (MHz)				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)
				2515	2535	2555	25.0	0.0
30	QPSK	1	1	23.88	23.99	23.98	25.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
				2512.5	2535	2557.5	25.0	0.0
25	QPSK	1	1	23.88	24.06	23.82	25.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
				2510	2535	2560	25.0	0.0
20	PI2 BPSK	1	1	23.71	23.87	23.86	25.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
				2507.5	2535	2562.5	25.0	0.0
15	QPSK	1	1	23.84	23.87	23.86	25.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
				2505	2535	2565	25.0	0.0
10	QPSK	1	1	23.87	24.07	23.88	25.0	0.0
Channel								
Frequency (MHz)				503500	507000	513500	Tune-up limit (dBm)	MPR (dB)
				2502.5	2535	2567.5	25.0	0.0
5	QPSK	1	1	23.85	24.08	23.91	25.0	0.0

### n66 Other PA Ant0 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				346000	346000	350000		
				1730	1745	1760		
40	PI2 BPSK	1	1	23.37	23.51	23.37		
40	PI2 BPSK	1	108	23.15	23.29	23.31	25.0	0.0
40	PI2 BPSK	1	214	23.39	23.38	23.22		
40	PI2 BPSK	108	0	23.29	23.40	23.29	25.0	0.0
40	PI2 BPSK	108	54	23.29	23.30	23.19	25.0	0.0
40	PI2 BPSK	108	108	23.22	23.41	23.41	25.0	0.0
40	PI2 BPSK	216	0	23.27	23.33	23.18	25.0	0.0
40	QPSK	1	1	23.54	23.60	23.51		
40	QPSK	1	108	23.30	23.32	23.28	25.0	0.0
40	QPSK	1	214	23.34	23.49	23.33		
40	QPSK	108	0	23.33	23.43	23.23	25.0	0.0
40	QPSK	108	54	23.52	23.58	23.52	25.0	0.0
40	QPSK	108	108	23.43	23.41	23.32	25.0	0.0
40	QPSK	216	0	23.47	23.51	23.50	25.0	0.0
40	16QAM	1	1	23.37	23.58	23.39	25.0	0.0
40	64QAM	1	1	22.04	22.18	22.05	24.0	1.0
40	256QAM	1	1	20.14	20.24	20.16	22.0	3.0
Channel								
Frequency (MHz)				345000	346000	353000	Tune-up limit (dBm)	MPR (dB)
				1725	1745	1765	25.0	0.0
30	QPSK	1	1	23.58	23.59	23.57	25.0	0.0
Channel								
Frequency (MHz)				344000	346000	354000	Tune-up limit (dBm)	MPR (dB)
				1720	1745	1770	25.0	0.0
20	QPSK	1	1	23.35	23.42	23.37	25.0	0.0
Channel								
Frequency (MHz)				343500	346000	354500	Tune-up limit (dBm)	MPR (dB)
				1717.5	1745	1772.5	25.0	0.0
15	QPSK	1	1	23.45	23.42	23.38	25.0	0.0
Channel								
Frequency (MHz)				343000	346000	355000	Tune-up limit (dBm)	MPR (dB)
				1715	1745	1772	25.0	0.0
10	QPSK	1	1	23.44	23.45	23.48	25.0	0.0
Channel								
Frequency (MHz)				342500	346000	355500	Tune-up limit (dBm)	MPR (dB)
				1712.5	1745	1777.5	25.0	0.0
5	QPSK	1	1	23.44	23.56	23.33	25.0	0.0



n38 Other PA Ant0 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519500	519696	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	23.63	23.78	23.79	
40	PI/2 BPSK	1	53	23.73	23.73	23.71	25.0
40	PI/2 BPSK	1	104	23.59	23.66	23.57	
40	PI/2 BPSK	50	0	23.23	23.32	23.24	24.5
40	PI/2 BPSK	50	28	23.69	23.73	23.62	25.0
40	PI/2 BPSK	50	56	23.65	23.76	23.62	24.5
40	PI/2 BPSK	100	0	23.34	23.36	23.33	
40	QPSK	1	1	23.76	23.82	23.79	
40	QPSK	1	53	23.68	23.80	23.72	25.0
40	QPSK	1	104	23.64	23.63	23.45	
40	QPSK	50	0	23.10	23.32	23.32	24.0
40	QPSK	50	28	23.65	23.74	23.67	25.0
40	QPSK	80	56	23.57	23.72	23.66	24.0
40	QPSK	100	0	22.71	22.73	22.66	
40	16QAM	1	1	22.80	22.74	22.52	24.0
40	16QAM	1	1	21.08	21.23	21.06	22.5
40	256QAM	1	1	19.19	19.41	19.37	20.5
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	23.71	23.81	23.58	25.0
Channel				516000	519000	520000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	23.77	23.67	23.80	25.0
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	23.64	23.77	23.74	25.0
Channel				515004	519000	522998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	23.61	23.66	23.59	25.0

n41 Other PA Ant0 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				52920	518998	529200	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.84	23.83	23.68	
100	PI/2 BPSK	1	137	23.49	23.64	23.44	25.0
100	PI/2 BPSK	1	271	23.47	23.51	23.51	
100	PI/2 BPSK	135	0	23.82	23.72	23.74	25.0
100	PI/2 BPSK	135	69	23.53	23.61	23.43	25.0
100	PI/2 BPSK	135	138	23.43	23.47	23.39	25.0
100	PI/2 BPSK	270	0	23.42	23.56	23.51	
100	QPSK	1	1	23.44	23.46	23.53	
100	QPSK	1	137	23.49	23.57	23.49	25.0
100	QPSK	1	271	23.48	23.50	23.38	
100	QPSK	135	0	23.61	23.71	23.64	25.0
100	QPSK	135	69	23.63	23.75	23.61	25.0
100	QPSK	185	138	23.44	23.42	23.41	
100	QPSK	270	0	23.52	23.57	23.55	25.0
100	16QAM	1	1	23.89	23.76	23.57	25.0
100	16QAM	1	1	22.82	23.00	22.83	24.0
100	256QAM	1	1	21.09	21.21	21.10	22.0
Channel				506200	518998	528998	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	23.42	23.80	23.37	25.0
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	23.35	23.61	23.32	25.0
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	23.36	23.78	23.52	25.0
Channel				505200	518998	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	23.42	23.85	23.37	25.0
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	23.27	23.68	23.39	25.0
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	23.41	23.77	23.37	25.0
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	23.44	23.63	23.51	25.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	23.28	23.87	23.54	25.0



### n2 Other PA Ant1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.06	14.93	14.94		
20	PI2 BPSK	1	53	15.00	15.00	14.83	16.1	0.0
20	PI2 BPSK	1	104	14.97	15.04	14.78		
20	PI2 BPSK	50	0	14.88	14.90	14.84	16.1	0.0
20	PI2 BPSK	50	28	14.97	14.96	14.78	16.1	0.0
20	PI2 BPSK	50	58	14.90	15.04	14.99		
20	PI2 BPSK	100	0	15.08	15.00	14.82		
20	QPSK	1	1	15.07	15.12	14.88		
20	QPSK	1	53	15.06	14.97	14.83	16.1	0.0
20	QPSK	1	104	14.89	14.93	14.86		
20	QPSK	50	0	14.87	15.03	14.89	16.1	0.0
20	QPSK	50	28	14.86	15.09	14.91	16.1	0.0
20	QPSK	50	58	14.94	15.07	14.83		
20	QPSK	100	0	14.87	15.05	14.78	16.1	0.0
20	16QAM	1	1	14.90	15.08	14.88	16.1	0.0
20	16QAM	1	1	14.98	15.02	15.00	16.1	0.0
20	256QAM	1	1	14.87	15.08	14.82	16.1	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.06	15.01	14.92	16.1	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.03	15.02	14.95	16.1	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.86	15.06	14.82	16.1	0.0

### n7 Other PA Ant1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	15.54	15.87	15.41		
40	PI2 BPSK	1	108	15.59	15.86	15.58	16.9	0.0
40	PI2 BPSK	1	214	15.50	15.55	15.45		
40	PI2 BPSK	108	0	15.51	15.88	15.42	16.9	0.0
40	PI2 BPSK	108	54	15.38	15.52	15.58	16.9	0.0
40	PI2 BPSK	108	108	15.55	15.80	15.57		
40	PI2 BPSK	216	0	15.59	15.65	15.56		
40	QPSK	1	1	15.58	15.70	15.57		
40	QPSK	1	108	15.58	15.65	15.38	16.9	0.0
40	QPSK	1	214	15.55	15.68	15.42		
40	QPSK	108	0	15.51	15.86	15.37	16.9	0.0
40	QPSK	108	54	15.53	15.68	15.41	16.9	0.0
40	QPSK	108	108	15.46	15.83	15.40		
40	QPSK	216	0	15.60	15.65	15.52	16.9	0.0
40	16QAM	1	1	15.44	15.65	15.48	16.9	0.0
40	16QAM	1	1	15.37	15.84	15.47	16.9	0.0
40	256QAM	1	1	15.50	15.60	15.45	16.9	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.54	15.63	15.41	16.9	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.53	15.54	15.37	16.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	15.50	15.83	15.44	16.9	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.48	15.66	15.30	16.9	0.0
Channel								
Frequency (MHz)				2907.5	2935	2962.5	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.48	15.66	15.30	16.9	0.0
Channel								
Frequency (MHz)				2902.5	2935	2967.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.48	15.68	15.56	16.9	0.0

### n66 Other PA Ant1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	15.38	15.49	15.31		
40	PI2 BPSK	1	108	15.35	15.52	15.31	16.6	0.0
40	PI2 BPSK	1	214	15.37	15.53	15.31		
40	PI2 BPSK	108	0	15.45	15.48	15.27	16.6	0.0
40	PI2 BPSK	108	54	15.52	15.45	15.27	16.6	0.0
40	PI2 BPSK	108	108	15.38	15.56	15.47	16.6	0.0
40	PI2 BPSK	216	0	15.42	15.56	15.45		
40	QPSK	1	1	15.55	15.56	15.45		
40	QPSK	1	108	15.58	15.51	15.28	16.6	0.0
40	QPSK	1	214	15.51	15.38	15.35		
40	QPSK	108	0	15.40	15.53	15.33	16.6	0.0
40	QPSK	108	54	15.50	15.55	15.29	16.6	0.0
40	QPSK	108	108	15.52	15.38	15.31		
40	QPSK	216	0	15.41	15.53	15.38	16.6	0.0
40	16QAM	1	1	15.37	15.48	15.29	16.6	0.0
40	16QAM	1	1	15.52	15.38	15.29	16.6	0.0
40	256QAM	1	1	15.38	15.55	15.42	16.6	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.43	15.56	15.35	16.6	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.33	15.53	15.43	16.6	0.0
Channel								
Frequency (MHz)				343500	349000	349500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.44	15.45	15.26	16.6	0.0
Channel								
Frequency (MHz)				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.53	15.50	15.43	16.6	0.0
Channel								
Frequency (MHz)				342500	349000	353500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.57	15.48	15.42	16.6	0.0



n38 Other PA Ant1 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI2 BPSK	1	1	15.06	14.98	14.98	
40	PI2 BPSK	1	53	14.88	15.08	14.85	16.2
40	PI2 BPSK	1	104	14.85	15.11	15.00	
40	PI2 BPSK	50	0	14.92	15.12	14.86	16.2
40	PI2 BPSK	50	28	14.97	15.03	14.97	16.2
40	PI2 BPSK	50	56	14.90	15.11	14.86	16.2
40	PI2 BPSK	100	0	14.97	14.98	14.97	
40	QPSK	1	1	15.06	15.16	15.00	
40	QPSK	1	53	14.84	14.99	14.88	16.2
40	QPSK	1	104	14.99	15.08	14.87	
40	QPSK	50	0	15.04	14.98	14.80	16.2
40	QPSK	50	28	14.97	15.10	14.99	16.2
40	QPSK	50	56	15.04	15.00	14.87	16.2
40	QPSK	100	0	14.89	15.00	14.80	16.2
40	16QAM	1	1	14.99	15.12	14.82	16.2
40	16QAM	1	1	14.98	15.15	14.97	16.2
40	256QAM	1	1	15.02	15.10	14.99	16.2
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	14.89	15.07	14.88	16.2
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	14.92	14.99	14.98	16.2
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	14.98	15.10	14.91	16.2
Channel				515004	519000	522998	
Frequency (MHz)				2572.02	2595	2614.98	
10	QPSK	1	1	15.03	14.98	14.90	16.2

n41 Other PA Ant1 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5246.01	5292.99	5240	
100	PI2 BPSK	1	1	14.70	15.20	14.83	
100	PI2 BPSK	1	137	14.86	15.14	14.87	16.2
100	PI2 BPSK	1	271	14.77	15.16	14.90	
100	PI2 BPSK	135	0	14.72	15.07	14.83	16.2
100	PI2 BPSK	135	69	14.73	15.20	14.97	16.2
100	PI2 BPSK	135	138	14.75	15.04	14.96	16.2
100	PI2 BPSK	270	0	14.80	15.19	14.80	
100	QPSK	1	1	14.99	15.23	14.99	
100	QPSK	1	137	14.83	15.02	14.89	16.2
100	QPSK	1	271	14.87	15.11	14.95	
100	QPSK	135	0	14.75	15.14	14.81	16.2
100	QPSK	135	69	14.80	15.20	14.92	16.2
100	QPSK	135	138	14.76	15.09	14.97	16.2
100	QPSK	270	0	14.90	15.18	14.86	16.2
100	16QAM	1	1	14.91	15.20	14.80	16.2
100	16QAM	1	1	14.71	15.15	15.01	16.2
100	256QAM	1	1	14.75	15.08	14.93	16.2
Channel				5246.00	51898	52998	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	14.86	15.02	14.96	16.2
Channel				507204	51898	52998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	14.77	15.05	14.90	16.2
Channel				506202	51898	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	14.86	15.21	15.00	16.2
Channel				505200	51898	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	14.84	15.19	14.88	16.2
Channel				504204	51898	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	14.72	15.16	14.78	16.2
Channel				503202	51898	533998	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	14.87	15.13	14.90	16.2
Channel				502200	51898	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	14.77	15.22	14.93	16.2
Channel				501204	51898	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	14.69	15.15	14.95	16.2



### n2 Other PA Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	64QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel								
Frequency (MHz)				37350	37600	38050	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				1025	830	1505		
10	QPSK	1	1	21.26	21.39	21.14	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				50400	50700	51000		
40	PI2 BPSK	1	1	22.25	22.40	22.25		
40	PI2 BPSK	1	108	22.45	22.45	22.32	24.0	0.0
40	PI2 BPSK	1	214	22.25	22.42	22.24		
40	PI2 BPSK	108	0	22.21	22.38	22.35	24.0	0.0
40	PI2 BPSK	108	54	22.34	22.37	22.23	24.0	0.0
40	PI2 BPSK	108	108	22.26	22.25	22.14	24.0	0.0
40	PI2 BPSK	216	0	22.43	22.46	22.46		
40	QPSK	1	1	22.38	22.05	22.58		
40	QPSK	1	108	22.42	22.81	22.53	24.0	0.0
40	QPSK	1	214	22.38	22.60	22.51		
40	QPSK	108	0	22.28	22.34	22.30	24.0	0.0
40	QPSK	108	54	22.31	22.48	22.32	24.0	0.0
40	QPSK	108	108	22.34	22.45	22.28	24.0	0.0
40	QPSK	216	0	22.33	22.50	22.42		
40	16QAM	1	1	22.06	22.12	22.08	24.0	0.0
40	64QAM	1	1	21.10	21.14	21.14	23.0	1.0
40	256QAM	1	1	19.21	19.33	19.15	21.0	3.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	22.36	22.52	22.47	24.0	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	22.40	22.56	22.38	24.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	22.26	22.44	22.38	24.0	0.0
Channel								
Frequency (MHz)				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	22.18	22.43	22.48	24.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	22.20	22.50	22.37	24.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	22.19	22.63	22.49	24.0	0.0

### n66 Other PA Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.12	21.18	21.11		
40	PI2 BPSK	1	108	21.03	21.19	21.04	23.0	0.0
40	PI2 BPSK	1	214	21.08	21.15	21.04		
40	PI2 BPSK	108	0	21.11	21.13	21.07	23.0	0.0
40	PI2 BPSK	108	54	21.01	21.13	21.06	23.0	0.0
40	PI2 BPSK	108	108	21.03	21.15	21.08	23.0	0.0
40	PI2 BPSK	216	0	21.06	21.13	21.08		
40	QPSK	1	1	21.17	21.23	21.13		
40	QPSK	1	108	21.10	21.14	21.12	23.0	0.0
40	QPSK	1	214	21.22	21.22	21.03		
40	QPSK	108	0	21.03	21.15	21.06	23.0	0.0
40	QPSK	108	54	21.15	21.17	21.16	23.0	0.0
40	QPSK	108	108	21.10	21.14	21.08	23.0	0.0
40	QPSK	216	0	21.13	21.15	21.14		
40	16QAM	1	1	21.13	21.16	21.04	23.0	0.0
40	64QAM	1	1	20.25	20.24	20.05	22.0	1.0
40	256QAM	1	1	18.02	18.23	18.12	20.0	3.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	21.11	21.21	21.10	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	21.14	21.18	21.01	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	21.07	21.21	21.13	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	21.14	21.08	21.02	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	21.02	21.12	21.05	23.0	0.0



n38 Other PA Ant2 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519500	519596	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	22.48	22.50	22.50	
40	PI/2 BPSK	1	53	22.40	22.46	22.39	24.0
40	PI/2 BPSK	1	104	22.51	22.55	22.54	
40	PI/2 BPSK	50	0	22.03	22.15	22.12	23.5
40	PI/2 BPSK	50	28	22.34	22.52	22.41	24.0
40	PI/2 BPSK	50	56	22.18	22.17	22.06	23.5
40	PI/2 BPSK	100	0	21.86	22.08	22.06	
40	QPSK	1	1	22.55	22.63	22.58	
40	QPSK	1	53	22.33	22.45	22.23	24.0
40	QPSK	1	104	22.61	22.62	22.42	
40	QPSK	50	0	21.52	21.51	21.52	23.0
40	QPSK	50	28	22.53	22.59	22.57	24.0
40	QPSK	80	56	21.46	21.61	21.61	23.0
40	QPSK	100	0	21.47	21.52	21.44	
40	16QAM	1	1	21.26	21.32	21.25	23.0
40	16QAM	1	1	20.19	20.25	20.06	21.5
40	256QAM	1	1	18.24	18.23	18.02	19.5
Channel				517002	519000	520000	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	22.48	22.53	22.54	24.0
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	22.55	22.51	22.44	24.0
Channel				515502	519000	520498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	22.40	22.57	22.50	24.0
Channel				515004	519000	520998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	22.34	22.47	22.59	24.0

n41 Other PA Ant2 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				5242	51898	52000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.81	22.88	22.84	
100	PI/2 BPSK	1	137	22.96	22.98	22.81	24.0
100	PI/2 BPSK	1	271	22.76	22.78	22.76	
100	PI/2 BPSK	135	0	22.82	22.98	22.84	24.0
100	PI/2 BPSK	135	69	22.89	22.91	22.89	24.0
100	PI/2 BPSK	135	138	22.57	22.71	22.60	24.0
100	PI/2 BPSK	270	0	22.88	22.87	22.86	
100	QPSK	1	1	22.48	22.60	22.85	
100	QPSK	1	137	22.76	22.81	22.74	24.0
100	QPSK	1	271	22.55	22.65	22.45	
100	QPSK	135	0	22.74	22.86	22.74	24.0
100	QPSK	135	69	22.82	22.92	22.87	24.0
100	QPSK	135	138	22.76	22.77	22.58	24.0
100	QPSK	270	0	22.75	22.82	22.78	
100	16QAM	1	1	22.74	22.91	22.78	24.0
100	16QAM	1	1	22.07	22.21	22.01	23.0
100	256QAM	1	1	20.40	20.59	20.60	21.0
Channel				506000	51898	520998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	22.44	22.87	22.74	24.0
Channel				507204	51898	520998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	22.42	22.69	22.85	24.0
Channel				506202	51898	521000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.41	22.93	22.69	24.0
Channel				505200	51898	521998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	22.31	22.91	22.86	24.0
Channel				504204	51898	522998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.46	22.52	22.37	24.0
Channel				503202	51898	523000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.31	22.84	22.72	24.0
Channel				502200	51898	524998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	22.35	22.63	22.83	24.0
Channel				501204	51898	525998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.40	22.91	22.75	24.0



### n2 Other PA Ant3 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	16.23	16.31	16.41		
20	PI2 BPSK	1	53	16.36	16.27	16.43	17.5	0.0
20	PI2 BPSK	1	164	16.24	16.32	16.28		
20	PI2 BPSK	50	0	16.35	16.42	16.25	17.5	0.0
20	PI2 BPSK	50	28	16.22	16.43	16.35	17.5	0.0
20	PI2 BPSK	50	58	16.19	16.44	16.24	17.5	0.0
20	PI2 BPSK	100	0	16.19	16.31	16.25		
20	QPSK	1	1	16.34	16.49	16.42		
20	QPSK	1	53	16.28	16.47	16.25	17.5	0.0
20	QPSK	1	104	16.14	16.41	16.31		
20	QPSK	50	0	16.16	16.39	16.43	17.5	0.0
20	QPSK	50	28	16.25	16.44	16.37	17.5	0.0
20	QPSK	50	58	16.16	16.34	16.32	17.5	0.0
20	QPSK	100	0	16.23	16.40	16.33		
20	16QAM	1	1	16.16	16.28	16.22	17.5	0.0
20	16QAM	1	1	16.18	16.46	16.21	17.5	0.0
20	256QAM	1	1	16.21	16.28	16.30	17.5	0.0
Channel								
Frequency (MHz)				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.22	16.31	16.23	17.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.27	16.45	16.40	17.5	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.23	16.38	16.44	17.5	0.0

### n7 Other PA Ant3 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	15.94	16.08	16.03		
40	PI2 BPSK	1	108	16.16	16.01	15.85	17.0	0.0
40	PI2 BPSK	1	214	15.93	15.99	15.98		
40	PI2 BPSK	108	0	15.99	16.14	15.86	17.0	0.0
40	PI2 BPSK	108	54	16.04	16.03	15.88	17.0	0.0
40	PI2 BPSK	108	108	15.99	16.15	15.81	17.0	0.0
40	PI2 BPSK	216	0	16.07	16.09	15.97		
40	QPSK	1	1	16.15	16.18	16.02		
40	QPSK	1	108	16.00	15.88	15.91	17.0	0.0
40	QPSK	1	214	16.04	16.01	15.96		
40	QPSK	108	0	16.04	16.10	15.93	17.0	0.0
40	QPSK	108	54	16.00	16.12	15.93	17.0	0.0
40	QPSK	108	108	15.96	16.10	15.94	17.0	0.0
40	QPSK	216	0	16.07	16.08	15.85		
40	16QAM	1	1	15.99	16.03	15.86	17.0	0.0
40	16QAM	1	1	16.07	16.05	16.03	17.0	0.0
40	256QAM	1	1	15.96	16.00	15.97	17.0	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.98	16.03	15.83	17.0	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	16.08	15.97	15.94	17.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	16.14	16.04	15.80	17.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.14	16.09	15.84	17.0	0.0
Channel								
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.14	16.09	15.84	17.0	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.10	16.17	16.00	17.0	0.0

### n66 Other PA Ant3 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.71	16.89	16.87		
40	PI2 BPSK	1	108	16.68	16.74	16.74	17.9	0.0
40	PI2 BPSK	1	214	16.82	16.90	16.68		
40	PI2 BPSK	108	0	16.78	16.86	16.83	17.9	0.0
40	PI2 BPSK	108	54	16.71	16.76	16.67	17.9	0.0
40	PI2 BPSK	108	108	16.67	16.81	16.69	17.9	0.0
40	PI2 BPSK	216	0	16.77	16.86	16.90		
40	QPSK	1	1	16.86	16.92	16.86		
40	QPSK	1	108	16.85	16.89	16.71	17.9	0.0
40	QPSK	1	214	16.83	16.84	16.89		
40	QPSK	108	0	16.83	16.81	16.79	17.9	0.0
40	QPSK	108	54	16.86	16.88	16.81	17.9	0.0
40	QPSK	108	108	16.89	16.83	16.87	17.9	0.0
40	QPSK	216	0	16.70	16.94	16.83		
40	16QAM	1	1	16.85	16.76	16.90	17.9	0.0
40	16QAM	1	1	16.74	16.85	16.69	17.9	0.0
40	256QAM	1	1	16.68	16.79	16.78	17.9	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.71	16.88	16.71	17.9	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.67	16.86	16.84	17.9	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.79	16.90	16.87	17.9	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.66	16.73	16.79	17.9	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.83	16.89	16.70	17.9	0.0



n38 Other PA Ant3 DS12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2590.02	2595	2599.98		
Frequency (MHz)				5190.04	5190.00	5199.96		
40	PI2 BPSK	1	1	15.33	15.60	15.45		
40	PI2 BPSK	1	53	15.31	15.48	15.35	16.7	0.0
40	PI2 BPSK	1	104	15.34	15.44	15.33		
40	PI2 BPSK	50	0	15.48	15.48	15.51	16.7	0.0
40	PI2 BPSK	50	28	15.30	15.41	15.49	16.7	0.0
40	PI2 BPSK	50	56	15.52	15.60	15.39	16.7	0.0
40	PI2 BPSK	100	0	15.49	15.57	15.58		
40	QPSK	1	1	15.50	15.60	15.55		
40	QPSK	1	53	15.47	15.48	15.43	16.7	0.0
40	QPSK	1	104	15.34	15.60	15.52		
40	QPSK	50	0	15.39	15.58	15.40	16.7	0.0
40	QPSK	50	28	15.31	15.60	15.47	16.7	0.0
40	QPSK	80	56	15.39	15.58	15.36	16.7	0.0
40	QPSK	100	0	15.39	15.55	15.53		
40	16QAM	1	1	15.40	15.49	15.58	16.7	0.0
40	16QAM	1	1	15.30	15.41	15.54	16.7	0.0
40	256QAM	1	1	15.31	15.58	15.40	16.7	0.0
Channel				2585.01	2595	2604.99		
Frequency (MHz)				5170.02	5190.00	5209.98		
30	QPSK	1	1	15.29	15.48	15.35	16.7	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	15.52	15.59	15.48	16.7	0.0
Channel				515502	519000	522498		
Frequency (MHz)				2677.51	2595	2612.48		
15	QPSK	1	1	15.50	15.43	15.45	16.7	0.0
Channel				515004	519000	522996		
Frequency (MHz)				2676.02	2595	2614.98		
10	QPSK	1	1	15.48	15.56	15.41	16.7	0.0

n41 Other PA Ant3 DS12								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				2546.01	2592.99	2640		
Frequency (MHz)				5092.00	5185.98	5280.00		
100	PI2 BPSK	1	1	15.38	15.57	15.30		
100	PI2 BPSK	1	137	15.35	15.59	15.50	16.7	0.0
100	PI2 BPSK	1	271	15.44	15.62	15.47		
100	PI2 BPSK	135	0	15.29	15.62	15.29	16.7	0.0
100	PI2 BPSK	135	69	15.40	15.61	15.45	16.7	0.0
100	PI2 BPSK	135	138	15.29	15.64	15.45	16.7	0.0
100	PI2 BPSK	270	0	15.48	15.47	15.39		
100	QPSK	1	1	15.47	15.68	15.50		
100	QPSK	1	137	15.31	15.64	15.48	16.7	0.0
100	QPSK	1	271	15.45	15.65	15.34		
100	QPSK	135	0	15.48	15.60	15.38	16.7	0.0
100	QPSK	135	69	15.30	15.62	15.31	16.7	0.0
100	QPSK	135	138	15.31	15.60	15.29	16.7	0.0
100	QPSK	270	0	15.42	15.55	15.42		
100	16QAM	1	1	15.42	15.56	15.46	16.7	0.0
100	16QAM	1	1	15.48	15.55	15.47	16.7	0.0
100	256QAM	1	1	15.26	15.46	15.44	16.7	0.0
Channel				5092.00	5185.98	5289.98		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.41	15.60	15.44	16.7	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.37	15.61	15.31	16.7	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.37	15.59	15.31	16.7	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	15.41	15.59	15.37	16.7	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.25	15.60	15.32	16.7	0.0
Channel				503202	518598	533000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.36	15.48	15.42	16.7	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	15.44	15.61	15.40	16.7	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.48	15.51	15.48	16.7	0.0





Reduced Power Mode for Other PA DSI3 Simultaneous

n2 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	20.47	20.59	20.32			
20	PI2 BPSK	1	53	20.59	20.48	20.43	21.5	0.0	
20	PI2 BPSK	1	104	20.58	20.43	20.32			
20	PI2 BPSK	50	0	20.56	20.46	20.48	21.5	0.0	
20	PI2 BPSK	50	28	20.56	20.42	20.49	21.5	0.0	
20	PI2 BPSK	50	56	20.47	20.42	20.43	21.5	0.0	
20	PI2 BPSK	100	0	20.43	20.49	20.49			
20	QPSK	1	1	20.60	20.61	20.52			
20	QPSK	1	53	20.45	20.51	20.32	21.5	0.0	
20	QPSK	1	104	20.55	20.60	20.31			
20	QPSK	50	0	20.51	20.47	20.44	21.5	0.0	
20	QPSK	50	28	20.57	20.59	20.38	21.5	0.0	
20	QPSK	50	56	20.49	20.49	20.34	21.5	0.0	
20	QPSK	100	0	20.53	20.56	20.38			
20	16QAM	1	1	20.57	20.55	20.51	21.5	0.0	
20	64QAM	1	1	20.58	20.52	20.53	21.5	0.0	
20	256QAM	1	1	20.50	20.43	20.43	21.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1827.5	1880	1927.5			
15	QPSK	1	1	20.50	20.56	20.41	21.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	20.56	20.48	20.38	21.5	0.0	
Channel				372500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1927.5			
5	QPSK	1	1	20.45	20.47	20.39	21.5	0.0	

n7 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.82	18.86	18.78			
40	PI2 BPSK	1	108	18.85	18.95	18.93	20.3	0.0	
40	PI2 BPSK	1	214	18.86	19.00	18.86			
40	PI2 BPSK	108	0	18.92	19.01	18.96	20.3	0.0	
40	PI2 BPSK	108	54	18.91	18.98	18.83	20.3	0.0	
40	PI2 BPSK	108	108	18.92	18.97	18.82	20.3	0.0	
40	PI2 BPSK	216	0	18.84	18.01	18.83			
40	QPSK	1	1	18.98	19.07	18.99			
40	QPSK	1	108	18.96	19.04	18.94	20.3	0.0	
40	QPSK	1	214	18.94	18.89	18.94			
40	QPSK	108	0	18.96	18.91	18.81	20.3	0.0	
40	QPSK	108	54	18.84	18.05	18.83	20.3	0.0	
40	QPSK	108	108	18.81	18.99	18.86	20.3	0.0	
40	QPSK	216	0	18.97	19.01	18.96			
40	16QAM	1	1	18.90	19.05	18.91	20.3	0.0	
40	64QAM	1	1	18.94	18.92	18.89	20.3	0.0	
40	256QAM	1	1	18.98	18.92	18.90	20.3	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2552			
30	QPSK	1	1	18.97	18.95	18.83	20.3	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.80	18.96	18.99	20.3	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2550			
20	PI2 BPSK	1	1	18.82	18.99	18.94	20.3	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.92	18.90	18.70	20.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.93	19.04	18.99	20.3	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.81	19.04	18.81	20.3	0.0	

n66 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	18.87	19.06	18.79			
40	PI2 BPSK	1	108	18.86	18.95	18.78	20.3	0.0	
40	PI2 BPSK	1	214	18.84	18.93	18.77			
40	PI2 BPSK	108	0	18.97	19.00	18.90	20.3	0.0	
40	PI2 BPSK	108	54	18.86	19.01	18.89	20.3	0.0	
40	PI2 BPSK	108	108	18.82	18.87	18.76	20.3	0.0	
40	PI2 BPSK	216	0	18.84	18.99	18.90			
40	QPSK	1	1	19.04	19.08	18.98			
40	QPSK	1	108	18.97	19.05	18.83	20.3	0.0	
40	QPSK	1	214	18.89	19.05	18.84			
40	QPSK	108	0	18.95	19.04	18.84	20.3	0.0	
40	QPSK	108	54	18.89	19.06	18.89	20.3	0.0	
40	QPSK	108	108	18.95	18.86	18.81	20.3	0.0	
40	QPSK	216	0	18.87	19.00	18.97			
40	16QAM	1	1	19.02	19.04	18.93	20.3	0.0	
40	64QAM	1	1	18.92	18.97	18.88	20.3	0.0	
40	256QAM	1	1	19.00	18.96	18.81	20.3	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.97	18.90	18.91	20.3	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.95	18.86	18.92	20.3	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.95	19.04	18.83	20.3	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.99	19.02	18.89	20.3	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.87	18.90	18.92	20.3	0.0	



n38 Other PA Ant0 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	20.09	20.16	20.15	
40	PI/2 BPSK	1	53	20.02	20.22	20.11	21.2
40	PI/2 BPSK	1	104	20.15	20.33	20.17	
40	PI/2 BPSK	50	0	20.00	20.25	20.28	21.2
40	PI/2 BPSK	50	28	20.02	20.23	20.23	21.2
40	PI/2 BPSK	50	56	20.15	20.30	20.24	21.2
40	PI/2 BPSK	100	0	20.01	20.33	20.10	
40	QPSK	1	1	20.14	20.38	20.31	
40	QPSK	1	53	19.98	20.32	20.20	21.2
40	QPSK	1	104	20.01	20.33	20.11	
40	QPSK	50	0	19.98	20.30	20.22	21.2
40	QPSK	50	28	20.10	20.35	20.12	21.2
40	QPSK	80	56	19.94	20.29	20.14	21.2
40	QPSK	100	0	20.10	20.33	20.22	
40	16QAM	1	1	20.11	20.30	20.11	21.2
40	16QAM	1	1	20.15	20.18	20.16	21.2
40	256QAM	1	1	18.98	19.33	19.37	20.2
Channel				517002	519000	520000	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	20.02	20.21	20.28	21.2
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	20.04	20.30	20.14	21.2
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	20.08	20.20	20.11	21.2
Channel				515004	519000	522998	
Frequency (MHz)				2572.02	2595	2614.98	
10	QPSK	1	1	20.13	20.34	20.20	21.2

n41 Other PA Ant0 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				509200	518998	529000	
100	PI/2 BPSK	1	1	19.99	20.15	19.87	
100	PI/2 BPSK	1	137	19.82	20.21	19.96	21.2
100	PI/2 BPSK	1	271	19.91	20.19	19.96	
100	PI/2 BPSK	135	0	19.84	20.33	19.98	21.2
100	PI/2 BPSK	135	69	19.93	20.14	19.93	21.2
100	PI/2 BPSK	135	138	20.02	20.17	20.08	21.2
100	PI/2 BPSK	270	0	20.03	20.33	20.04	
100	QPSK	1	1	20.02	20.38	20.09	
100	QPSK	1	137	20.02	20.32	20.04	21.2
100	QPSK	1	271	19.86	20.23	19.99	
100	QPSK	135	0	19.83	20.31	20.07	21.2
100	QPSK	135	69	19.88	20.33	19.93	21.2
100	QPSK	135	138	19.91	20.30	20.10	21.2
100	QPSK	270	0	19.99	20.28	19.95	
100	16QAM	1	1	20.01	20.15	20.04	21.2
100	16QAM	1	1	19.95	20.27	19.98	21.2
100	256QAM	1	1	19.89	20.20	19.92	21.2
Channel				509200	518998	529000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	19.87	20.30	19.98	21.2
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	19.99	20.23	19.99	21.2
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.97	20.31	19.88	21.2
Channel				505200	518998	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	19.81	20.21	20.02	21.2
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	20.02	20.25	20.09	21.2
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.93	20.20	20.03	21.2
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.81	20.17	19.99	21.2
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.84	20.28	19.89	21.2



n2 Other PA Ant1 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	14.87	15.03	14.92			
20	PI2 BPSK	1	53	15.08	14.98	14.93	16.1	0.0	
20	PI2 BPSK	1	104	14.92	15.07	14.88			
20	PI2 BPSK	50	0	15.06	14.80	15.01	16.1	0.0	
20	PI2 BPSK	50	28	14.92	14.85	15.01	16.1	0.0	
20	PI2 BPSK	50	58	14.90	14.99	14.98			
20	PI2 BPSK	100	0	14.99	15.09	14.80			
20	QPSK	1	1	15.14	15.22	14.85			
20	QPSK	1	53	15.09	15.12	14.85	16.1	0.0	
20	QPSK	1	104	14.82	15.01	14.76			
20	QPSK	50	0	15.03	15.11	15.01	16.1	0.0	
20	QPSK	50	28	15.11	15.21	14.98	16.1	0.0	
20	QPSK	50	58	15.03	14.96	14.83			
20	QPSK	100	0	15.12	15.15	14.76	16.1	0.0	
20	16QAM	1	1	15.03	14.94	14.86	16.1	0.0	
20	16QAM	1	1	15.01	14.98	14.74	16.1	0.0	
20	256QAM	1	1	15.11	15.10	15.03	16.1	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1860	1902.5			
15	QPSK	1	1	15.01	14.90	14.99	16.1	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1860	1905			
10	QPSK	1	1	15.17	14.90	14.80	16.1	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	15.07	15.08	14.98	16.1	0.0	

n7 Other PA Ant1 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	17.55	17.59	17.59			
40	PI2 BPSK	1	108	17.50	17.53	17.63	18.9	0.0	
40	PI2 BPSK	1	214	17.54	17.73	17.60			
40	PI2 BPSK	108	0	17.51	17.66	17.63	18.9	0.0	
40	PI2 BPSK	108	54	17.70	17.65	17.69	18.9	0.0	
40	PI2 BPSK	108	108	17.77	17.84	17.73			
40	PI2 BPSK	216	0	17.71	17.83	17.67			
40	QPSK	1	1	17.85	17.84	17.76			
40	QPSK	1	108	17.40	17.78	17.59	18.9	0.0	
40	QPSK	1	214	17.82	17.58	17.77			
40	QPSK	108	0	17.62	17.84	17.77	18.9	0.0	
40	QPSK	108	54	17.57	17.82	17.70	18.9	0.0	
40	QPSK	108	108	17.85	17.81	17.61			
40	QPSK	216	0	17.72	17.78	17.73	18.9	0.0	
40	16QAM	1	1	17.64	17.51	17.73	18.9	0.0	
40	16QAM	1	1	17.58	17.84	17.78	18.9	0.0	
40	256QAM	1	1	17.63	17.81	17.76	18.9	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.61	17.63	17.68	18.9	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2577.5			
25	QPSK	1	1	17.71	17.53	17.50	18.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	17.57	17.69	17.83	18.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2582.5			
15	QPSK	1	1	17.67	17.69	17.70	18.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2585			
10	QPSK	1	1	17.74	17.57	17.74	18.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2587.5			
5	QPSK	1	1	17.71	17.59	17.69	18.9	0.0	

n66 Other PA Ant1 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	15.38	15.22	15.36			
40	PI2 BPSK	1	108	15.19	15.40	15.13	16.8	0.0	
40	PI2 BPSK	1	214	15.27	15.16	15.40			
40	PI2 BPSK	108	0	15.30	15.37	15.48	16.8	0.0	
40	PI2 BPSK	108	54	15.22	15.30	15.14	16.8	0.0	
40	PI2 BPSK	108	108	15.22	15.28	15.31	16.8	0.0	
40	PI2 BPSK	216	0	15.30	15.22	15.36			
40	QPSK	1	1	15.48	15.49	15.28			
40	QPSK	1	108	15.45	15.23	15.24	16.8	0.0	
40	QPSK	1	214	15.24	15.39	15.35			
40	QPSK	108	0	15.42	15.19	15.28	16.8	0.0	
40	QPSK	108	54	15.12	15.47	15.26	16.8	0.0	
40	QPSK	108	108	15.19	15.32	15.34	16.8	0.0	
40	QPSK	216	0	15.28	15.45	15.36	16.8	0.0	
40	16QAM	1	1	15.37	15.39	15.27	16.8	0.0	
40	16QAM	1	1	15.25	15.23	15.22	16.8	0.0	
40	256QAM	1	1	15.25	15.32	15.45	16.8	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.31	15.37	15.39	16.8	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.43	15.35	15.32	16.8	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.47	15.42	15.36	16.8	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.48	15.46	15.31	16.8	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.33	15.48	15.37	16.8	0.0	



n38 Other PA Ant1 DSI3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5199.96	
40	PI/2 BPSK	1	1	17.20	17.52	17.23	
40	PI/2 BPSK	1	53	17.38	17.64	17.26	18.6
40	PI/2 BPSK	1	104	17.44	17.60	17.25	18.6
40	PI/2 BPSK	50	0	17.44	17.62	17.19	18.6
40	PI/2 BPSK	50	28	17.34	17.58	17.28	18.6
40	PI/2 BPSK	50	56	17.49	17.57	17.36	18.6
40	PI/2 BPSK	100	0	17.61	17.58	17.29	18.6
40	QPSK	1	1	17.51	17.65	17.47	18.6
40	QPSK	1	53	17.39	17.54	17.35	18.6
40	QPSK	1	104	17.38	16.79	17.40	18.6
40	QPSK	50	0	17.42	17.60	17.19	18.6
40	QPSK	50	28	17.29	17.57	17.25	18.6
40	QPSK	80	56	17.26	17.49	17.32	18.6
40	QPSK	100	0	17.52	17.58	17.35	18.6
40	16QAM	1	1	17.21	17.56	17.33	18.6
40	16QAM	1	1	17.54	17.55	17.43	18.6
40	256QAM	1	1	17.35	17.52	17.43	18.6
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	17.34	17.55	17.38	18.6
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	17.44	17.55	17.29	18.6
Channel				515502	519000	520498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	17.31	17.59	17.20	18.6
Channel				515004	519000	520996	
Frequency (MHz)				2678.02	2595	2614.98	
10	QPSK	1	1	17.41	17.60	17.40	18.6

n41 Other PA Ant1 DSI3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.02	5185.98	5280.00	
100	PI/2 BPSK	1	1	17.47	17.50	17.63	
100	PI/2 BPSK	1	137	17.38	17.55	17.49	18.6
100	PI/2 BPSK	1	271	17.68	17.65	17.49	18.6
100	PI/2 BPSK	135	0	17.44	17.57	17.34	18.6
100	PI/2 BPSK	135	69	17.46	17.65	17.59	18.6
100	PI/2 BPSK	135	138	17.45	17.62	17.44	18.6
100	PI/2 BPSK	270	0	17.46	17.45	17.60	18.6
100	QPSK	1	1	17.51	17.70	17.68	18.6
100	QPSK	1	137	17.49	17.55	17.65	18.6
100	QPSK	1	271	17.68	17.55	17.61	18.6
100	QPSK	135	0	17.54	17.49	17.54	18.6
100	QPSK	135	69	17.43	17.68	17.63	18.6
100	QPSK	135	138	17.44	17.60	17.50	18.6
100	QPSK	270	0	17.55	17.65	17.59	18.6
100	16QAM	1	1	17.30	17.39	17.61	18.6
100	16QAM	1	1	17.32	17.50	17.58	18.6
100	256QAM	1	1	17.29	17.44	17.53	18.6
Channel				5092.00	5185.98	5280.00	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	17.45	17.42	17.54	18.6
Channel				507204	518598	529988	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	17.25	17.42	17.58	18.6
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	17.35	17.63	17.61	18.6
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	17.43	17.53	17.66	18.6
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	17.35	17.51	17.53	18.6
Channel				503202	518598	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	17.46	17.42	17.57	18.6
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	17.25	17.55	17.45	18.6
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	17.49	17.54	17.62	18.6



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09		
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	64QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel								
Frequency (MHz)				37350	37600	38050	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				1025	930	1505		
10	QPSK	1	1	21.26	21.29	21.14	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				50400	50700	51000		
40	PI2 BPSK	1	1	19.65	19.52	19.59		
40	PI2 BPSK	1	108	19.54	19.59	19.55	21.5	0.0
40	PI2 BPSK	1	214	19.53	19.59	19.55		
40	PI2 BPSK	108	0	19.56	19.84	19.54	21.5	0.0
40	PI2 BPSK	108	54	19.58	19.63	19.60	21.5	0.0
40	PI2 BPSK	108	108	19.57	19.81	19.63	21.5	0.0
40	PI2 BPSK	216	0	19.62	19.54	19.51		
40	QPSK	1	1	19.57	19.55	19.58		
40	QPSK	1	108	19.55	19.51	19.56	21.5	0.0
40	QPSK	1	214	19.53	19.59	19.55		
40	QPSK	108	0	19.54	19.55	19.52	21.5	0.0
40	QPSK	108	54	19.53	19.59	19.54	21.5	0.0
40	QPSK	108	108	19.54	19.51	19.54	21.5	0.0
40	QPSK	216	0	19.54	19.57	19.51		
40	16QAM	1	1	19.51	19.54	19.53	21.5	0.0
40	64QAM	1	1	19.49	19.55	19.54	21.5	0.0
40	256QAM	1	1	19.52	19.54	19.58	21.5	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	19.25	19.53	19.41	21.5	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	19.39	19.51	19.40	21.5	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	19.59	19.55	19.54	21.5	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	19.57	19.53	19.56	21.5	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	19.60	19.59	19.59	21.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	19.54	19.58	19.54	21.5	0.0

### n66 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.12	21.18	21.11		
40	PI2 BPSK	1	108	21.03	21.19	21.04	23.0	0.0
40	PI2 BPSK	1	214	21.08	21.15	21.04		
40	PI2 BPSK	108	0	21.11	21.13	21.07	23.0	0.0
40	PI2 BPSK	108	54	21.01	21.13	21.06	23.0	0.0
40	PI2 BPSK	108	108	21.03	21.15	21.08	23.0	0.0
40	PI2 BPSK	216	0	21.06	21.13	21.08		
40	QPSK	1	1	21.17	21.23	21.13		
40	QPSK	1	108	21.10	21.14	21.12	23.0	0.0
40	QPSK	1	214	21.22	21.22	21.03		
40	QPSK	108	0	21.03	21.15	21.06	23.0	0.0
40	QPSK	108	54	21.15	21.17	21.16	23.0	0.0
40	QPSK	108	108	21.10	21.14	21.08	23.0	0.0
40	QPSK	216	0	21.13	21.15	21.14		
40	16QAM	1	1	21.13	21.16	21.04	23.0	0.0
40	64QAM	1	1	20.25	20.24	20.05	22.0	1.0
40	256QAM	1	1	18.02	18.23	18.12	20.0	3.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	21.11	21.21	21.10	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	21.14	21.18	21.01	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	349000	Tune-up limit (dBm)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	21.07	21.21	21.13	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	21.14	21.08	21.08	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	21.02	21.12	21.05	23.0	0.0



n38 Other PA Ant2 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				19.60	19.63	19.64	
40	PI2 BPSK	1	1	19.60	19.63	19.64	
40	PI2 BPSK	1	53	19.57	19.57	19.56	21.4
40	PI2 BPSK	1	104	19.58	19.72	19.64	
40	PI2 BPSK	50	0	19.47	19.68	19.72	21.4
40	PI2 BPSK	50	28	19.46	19.56	19.53	21.4
40	PI2 BPSK	50	56	19.59	19.65	19.65	21.4
40	PI2 BPSK	100	0	19.52	19.54	19.55	
40	QPSK	1	1	19.62	19.73	19.71	
40	QPSK	1	53	19.60	19.69	19.59	21.4
40	QPSK	1	104	19.61	19.64	19.62	
40	QPSK	50	0	19.62	19.72	19.60	21.4
40	QPSK	50	28	19.50	19.57	19.56	21.4
40	QPSK	80	56	19.62	19.69	19.71	21.4
40	QPSK	100	0	19.53	19.60	19.51	
40	16QAM	1	1	19.58	19.70	19.60	21.4
40	16QAM	1	1	19.47	19.62	19.63	21.4
40	256QAM	1	1	18.23	18.15	17.99	1.5
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.91	2595	2604.99	
30	QPSK	1	1	19.62	19.72	19.58	21.4
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	19.44	19.65	19.53	21.4
Channel				515502	519000	520498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	19.58	19.63	19.52	21.4
Channel				515004	519000	520996	
Frequency (MHz)				2675.02	2595	2614.98	
10	QPSK	1	1	19.48	19.56	19.60	21.4

n41 Other PA Ant2 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				19.87	20.06	20.06	
100	PI2 BPSK	1	1	19.87	20.06	19.79	
100	PI2 BPSK	1	137	19.90	20.06	19.82	21.4
100	PI2 BPSK	1	271	19.73	20.08	19.94	
100	PI2 BPSK	135	0	19.79	20.03	19.86	21.4
100	PI2 BPSK	135	69	19.83	19.95	19.78	21.4
100	PI2 BPSK	135	138	19.91	19.97	19.76	21.4
100	PI2 BPSK	270	0	19.86	20.05	19.84	
100	QPSK	1	1	19.91	20.09	19.95	
100	QPSK	1	137	19.77	19.94	19.86	21.4
100	QPSK	1	271	19.91	20.05	19.85	
100	QPSK	135	0	19.73	20.05	19.77	21.4
100	QPSK	135	69	19.73	19.89	19.82	21.4
100	QPSK	135	138	19.86	19.95	19.83	21.4
100	QPSK	270	0	19.81	20.00	19.82	
100	16QAM	1	1	19.88	19.95	19.74	21.4
100	16QAM	1	1	19.81	19.95	19.85	21.4
100	256QAM	1	1	19.77	20.06	19.83	21.4
Channel				506000	518000	520000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	19.74	20.02	19.92	21.4
Channel				507204	518998	520998	
Frequency (MHz)				2536.02	2592.99	2640.99	
80	QPSK	1	1	19.74	20.03	19.76	21.4
Channel				506202	518998	520000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.89	19.94	19.84	21.4
Channel				505200	518998	520998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	19.83	19.93	19.90	21.4
Channel				504204	518998	520998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	19.73	19.89	19.93	21.4
Channel				503202	518998	520000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.82	20.08	19.86	21.4
Channel				502200	518998	520998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.83	19.93	19.97	21.4
Channel				501204	518998	520998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.87	19.98	19.86	21.4



n2 Other PA Ant3 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	18.87	18.77	18.65			
20	PI2 BPSK	1	53	18.55	18.75	18.64	20.1	0.0	
20	PI2 BPSK	1	104	18.80	18.76	18.57			
20	PI2 BPSK	50	0	18.54	18.82	18.58	20.1	0.0	
20	PI2 BPSK	50	28	18.74	18.89	18.55	20.1	0.0	
20	PI2 BPSK	50	58	18.77	18.86	18.62	20.1	0.0	
20	PI2 BPSK	100	0	18.64	18.89	18.62			
20	QPSK	1	1	18.80	18.97	18.70			
20	QPSK	1	53	18.59	18.69	18.76	20.1	0.0	
20	QPSK	1	104	18.81	18.78	18.83			
20	QPSK	50	0	18.69	18.76	18.67	20.1	0.0	
20	QPSK	50	28	18.76	18.95	18.75	20.1	0.0	
20	QPSK	50	58	18.05	18.91	18.52	20.1	0.0	
20	QPSK	100	0	18.65	18.93	18.58			
20	16QAM	1	1	18.70	18.69	18.52	20.1	0.0	
20	16QAM	1	1	18.74	18.76	18.75	20.1	0.0	
20	256QAM	1	1	18.83	18.92	18.77	20.1	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	18.59	18.89	18.65	20.1	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	18.72	18.80	18.67	20.1	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	18.60	18.93	18.69	20.1	0.0	

n7 Other PA Ant3 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.34	18.46	18.52			
40	PI2 BPSK	1	108	18.42	18.58	18.35	20.0	0.0	
40	PI2 BPSK	1	214	18.56	18.55	18.35			
40	PI2 BPSK	108	0	18.49	18.71	18.62	20.0	0.0	
40	PI2 BPSK	108	54	18.27	18.69	18.51	20.0	0.0	
40	PI2 BPSK	108	108	18.28	18.55	18.39	20.0	0.0	
40	PI2 BPSK	216	0	18.46	18.54	18.41			
40	QPSK	1	1	18.41	18.73	18.53			
40	QPSK	1	108	18.38	18.64	18.38	20.0	0.0	
40	QPSK	1	214	18.37	18.50	18.53			
40	QPSK	108	0	18.47	18.60	18.52	20.0	0.0	
40	QPSK	108	54	18.24	18.69	18.44	20.0	0.0	
40	QPSK	108	108	18.51	18.44	18.40	20.0	0.0	
40	QPSK	216	0	18.27	18.61	18.44			
40	16QAM	1	1	18.33	18.57	18.56	20.0	0.0	
40	16QAM	1	1	18.31	18.49	18.50	20.0	0.0	
40	256QAM	1	1	18.30	18.56	18.57	20.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.42	18.59	18.59	20.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.52	18.71	18.60	20.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	18.62	18.66	18.55	20.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.46	18.64	18.59	20.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.64	18.64	18.51	20.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.63	18.72	18.54	20.0	0.0	

n66 Other PA Ant3 DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.85	19.07	18.94			
40	PI2 BPSK	1	108	18.76	19.09	18.94	20.2	0.0	
40	PI2 BPSK	1	214	18.75	19.05	19.03			
40	PI2 BPSK	108	0	18.84	19.20	18.79	20.2	0.0	
40	PI2 BPSK	108	54	18.71	19.12	19.04	20.2	0.0	
40	PI2 BPSK	108	108	18.73	18.95	18.84	20.2	0.0	
40	PI2 BPSK	216	0	18.91	19.16	18.97			
40	QPSK	1	1	18.89	19.23	19.02			
40	QPSK	1	108	18.88	19.09	18.89	20.2	0.0	
40	QPSK	1	214	18.88	19.08	18.83			
40	QPSK	108	0	18.71	19.20	19.00	20.2	0.0	
40	QPSK	108	54	18.77	19.21	18.96	20.2	0.0	
40	QPSK	108	108	18.76	19.06	18.90	20.2	0.0	
40	QPSK	216	0	19.00	19.20	18.96			
40	16QAM	1	1	18.88	19.18	18.96	20.2	0.0	
40	16QAM	1	1	18.84	18.99	18.92	20.2	0.0	
40	256QAM	1	1	18.79	19.01	18.93	20.2	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.85	19.13	18.95	20.2	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.77	19.06	18.84	20.2	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.80	19.09	18.90	20.2	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.84	19.18	18.76	20.2	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.81	19.12	18.92	20.2	0.0	



n38 Other PA Ant3 DSI3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	18.61	18.69	18.41	
40	PI/2 BPSK	1	53	18.63	18.58	18.31	20.0
40	PI/2 BPSK	1	104	18.59	18.62	18.30	
40	PI/2 BPSK	50	0	18.77	18.53	18.42	20.0
40	PI/2 BPSK	50	28	18.53	18.49	18.44	20.0
40	PI/2 BPSK	50	56	18.64	18.54	18.18	20.0
40	PI/2 BPSK	100	0	18.65	18.51	18.34	
40	QPSK	1	1	18.71	18.80	18.61	
40	QPSK	1	53	18.57	18.67	18.56	20.0
40	QPSK	1	104	18.64	18.51	18.39	
40	QPSK	50	0	18.72	18.53	18.31	20.0
40	QPSK	50	28	18.55	18.78	18.53	20.0
40	QPSK	80	56	18.61	18.60	18.33	20.0
40	QPSK	100	0	18.59	18.75	18.56	
40	16QAM	1	1	18.47	18.68	18.25	20.0
40	16QAM	1	1	18.50	18.61	18.34	20.0
40	256QAM	1	1	18.51	18.50	18.27	20.0
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				5170.02	5190.00	5209.98	
30	QPSK	1	1	18.62	18.52	18.25	20.0
Channel				516000	519000	520000	
Frequency (MHz)				516000	519000	520000	
20	QPSK	1	1	18.62	18.57	18.37	20.0
Channel				515502	519000	520498	
Frequency (MHz)				515502	519000	520498	
15	QPSK	1	1	18.47	18.64	18.40	20.0
Channel				515004	519000	520996	
Frequency (MHz)				515004	519000	520996	
10	QPSK	1	1	18.59	18.62	18.43	20.0

n41 Other PA Ant3 DSI3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.31	18.57	18.32	
100	PI/2 BPSK	1	137	18.29	18.51	18.19	20.0
100	PI/2 BPSK	1	271	18.19	18.44	18.50	
100	PI/2 BPSK	135	0	18.20	18.54	18.56	20.0
100	PI/2 BPSK	135	69	18.10	18.69	18.38	20.0
100	PI/2 BPSK	135	138	18.33	18.50	18.40	20.0
100	PI/2 BPSK	270	0	18.21	18.60	18.37	
100	QPSK	1	1	18.61	18.71	18.55	
100	QPSK	1	137	18.05	18.39	18.53	20.0
100	QPSK	1	271	18.08	18.59	18.17	
100	QPSK	135	0	18.05	18.39	18.46	20.0
100	QPSK	135	69	18.48	18.68	18.58	20.0
100	QPSK	135	138	18.24	18.67	18.43	
100	QPSK	270	0	18.35	18.67	18.48	20.0
100	16QAM	1	1	18.13	18.60	18.37	20.0
100	16QAM	1	1	18.21	18.44	18.57	20.0
100	256QAM	1	1	18.17	18.70	18.38	20.0
Channel				506000	518998	529998	
Frequency (MHz)				506000	518998	529998	
90	QPSK	1	1	18.18	18.47	18.39	20.0
Channel				507204	518998	529998	
Frequency (MHz)				507204	518998	529998	
80	QPSK	1	1	18.10	18.44	18.54	20.0
Channel				506202	518998	531000	
Frequency (MHz)				506202	518998	531000	
70	QPSK	1	1	18.29	18.56	18.46	20.0
Channel				505200	518998	531998	
Frequency (MHz)				505200	518998	531998	
60	QPSK	1	1	18.15	18.48	18.47	20.0
Channel				504204	518998	532998	
Frequency (MHz)				504204	518998	532998	
50	QPSK	1	1	18.12	18.55	18.52	20.0
Channel				503202	518998	533998	
Frequency (MHz)				503202	518998	533998	
40	QPSK	1	1	18.17	18.60	18.38	20.0
Channel				502200	518998	534998	
Frequency (MHz)				502200	518998	534998	
30	QPSK	1	1	18.17	18.57	18.37	20.0
Channel				501204	518998	535998	
Frequency (MHz)				501204	518998	535998	
20	QPSK	1	1	18.21	18.56	18.49	20.0





Reduced Power Mode for Other PA DSI3

n2 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	20.47	20.59	20.32	21.5	0.0	
20	PI2 BPSK	1	53	20.59	20.48	20.43			
20	PI2 BPSK	1	104	20.58	20.43	20.32			
20	PI2 BPSK	50	0	20.56	20.46	20.48	21.5	0.0	
20	PI2 BPSK	50	20	20.56	20.42	20.49	21.5	0.0	
20	PI2 BPSK	50	56	20.47	20.42	20.43	21.5	0.0	
20	PI2 BPSK	100	0	20.43	20.49	20.49			
20	QPSK	1	1	20.60	20.61	20.52			
20	QPSK	1	53	20.45	20.51	20.32	21.5	0.0	
20	QPSK	1	104	20.55	20.60	20.31			
20	QPSK	50	0	20.51	20.47	20.44			
20	QPSK	50	28	20.57	20.59	20.38	21.5	0.0	
20	QPSK	50	56	20.49	20.49	20.34	21.5	0.0	
20	QPSK	100	0	20.53	20.56	20.36			
20	16QAM	1	1	20.57	20.55	20.51			
20	16QAM	1	1	20.58	20.52	20.53	21.5	0.0	
20	256QAM	1	1	20.50	20.43	20.43	21.5	0.0	
Channel				375000	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1827.5	1880	1927.5	21.5	0.0	
15	QPSK	1	1	20.50	20.56	20.41	21.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	21.5	0.0	
10	QPSK	1	1	20.56	20.48	20.38	21.5	0.0	
Channel				375000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1822.5	1880	1927.5	21.5	0.0	
5	QPSK	1	1	20.45	20.47	20.39	21.5	0.0	

n7 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2900	2935	2950			
40	PI2 BPSK	1	1	18.82	18.86	18.78	20.3	0.0	
40	PI2 BPSK	1	108	18.85	18.95	18.93			
40	PI2 BPSK	1	214	18.86	19.00	18.86			
40	PI2 BPSK	108	0	18.92	19.01	18.96	20.3	0.0	
40	PI2 BPSK	108	54	18.91	18.99	18.83	20.3	0.0	
40	PI2 BPSK	108	108	18.92	18.97	18.82			
40	PI2 BPSK	216	0	18.84	19.01	18.83			
40	QPSK	1	1	18.98	19.07	18.99	20.3	0.0	
40	QPSK	1	108	18.98	19.04	18.84			
40	QPSK	1	214	18.94	18.99	18.88			
40	QPSK	108	0	18.96	18.91	18.81	20.3	0.0	
40	QPSK	108	54	18.84	19.05	18.83	20.3	0.0	
40	QPSK	108	108	18.81	18.99	18.86			
40	QPSK	216	0	18.97	19.01	18.86			
40	16QAM	1	1	18.90	19.05	18.91	20.3	0.0	
40	64QAM	1	1	18.94	18.92	18.89	20.3	0.0	
40	256QAM	1	1	18.98	18.92	18.90	20.3	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2915	2935	2955	20.3	0.0	
30	QPSK	1	1	18.97	18.95	18.83	20.3	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2912.5	2935	2957.5	20.3	0.0	
25	QPSK	1	1	18.80	18.98	18.99	20.3	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2910	2935	2960	20.3	0.0	
20	PI2 BPSK	1	1	18.82	18.99	18.94	20.3	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2907.5	2935	2962.5	20.3	0.0	
15	QPSK	1	1	18.92	18.90	18.78	20.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2905	2935	2965	20.3	0.0	
10	QPSK	1	1	18.93	19.04	18.99	20.3	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2902.5	2935	2967.5	20.3	0.0	
5	QPSK	1	1	18.81	19.04	18.81	20.3	0.0	

n66 Other PA Ant0 DSI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				34900	349000	352000			
40	PI2 BPSK	1	1	18.87	19.06	18.79	20.3	0.0	
40	PI2 BPSK	1	108	18.86	18.95	18.78			
40	PI2 BPSK	1	214	18.94	18.93	18.77			
40	PI2 BPSK	108	0	18.97	19.00	18.90	20.3	0.0	
40	PI2 BPSK	108	54	18.96	19.01	18.89	20.3	0.0	
40	PI2 BPSK	108	108	18.82	18.87	18.76			
40	PI2 BPSK	216	0	18.84	18.99	18.90			
40	QPSK	1	1	19.04	19.08	18.96	20.3	0.0	
40	QPSK	1	108	18.97	19.05	18.83			
40	QPSK	1	214	18.99	19.05	18.84			
40	QPSK	108	0	18.95	19.04	18.84	20.3	0.0	
40	QPSK	108	54	18.89	19.06	18.89	20.3	0.0	
40	QPSK	108	108	19.05	18.86	18.81			
40	QPSK	216	0	18.87	19.00	18.97			
40	QPSK	1	1	19.02	18.94	18.93	20.3	0.0	
40	64QAM	1	1	18.92	18.97	18.88	20.3	0.0	
40	256QAM	1	1	19.00	18.96	18.81	20.3	0.0	
Channel				349000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	20.3	0.0	
30	QPSK	1	1	18.97	18.90	18.91	20.3	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	20.3	0.0	
20	QPSK	1	1	18.95	18.86	18.82	20.3	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	20.3	0.0	
15	QPSK	1	1	18.95	19.04	18.83	20.3	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	20.3	0.0	
10	QPSK	1	1	18.99	19.02	18.89	20.3	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	20.3	0.0	
5	QPSK	1	1	18.87	18.90	18.82	20.3	0.0	



n38 Other PA Ant0 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	20.09	20.16	20.15	
40	PI/2 BPSK	1	53	20.02	20.22	20.11	21.2
40	PI/2 BPSK	1	104	20.15	20.33	20.17	
40	PI/2 BPSK	50	0	20.00	20.25	20.28	21.2
40	PI/2 BPSK	50	28	20.02	20.23	20.23	21.2
40	PI/2 BPSK	50	56	20.15	20.30	20.24	21.2
40	PI/2 BPSK	100	0	20.01	20.33	20.10	
40	QPSK	1	1	20.14	20.38	20.31	
40	QPSK	1	53	19.98	20.32	20.20	21.2
40	QPSK	1	104	20.01	20.33	20.11	
40	QPSK	50	0	19.98	20.30	20.22	21.2
40	QPSK	50	28	20.10	20.35	20.12	21.2
40	QPSK	80	56	19.94	20.29	20.14	21.2
40	QPSK	100	0	20.10	20.33	20.22	
40	16QAM	1	1	20.11	20.30	20.11	21.2
40	16QAM	1	1	20.15	20.18	20.16	21.2
40	256QAM	1	1	19.98	19.33	19.37	20.2
Channel				5170.02	5190.00	5209.99	
Frequency (MHz)				5170.02	5190.00	5209.99	
30	QPSK	1	1	20.02	20.21	20.28	21.2
Channel				516000	519000	520000	
Frequency (MHz)				516000	519000	520000	
20	QPSK	1	1	20.04	20.30	20.14	21.2
Channel				515502	519000	522498	
Frequency (MHz)				515502	519000	522498	
15	QPSK	1	1	20.08	20.20	20.11	21.2
Channel				515004	519000	522998	
Frequency (MHz)				515004	519000	522998	
10	QPSK	1	1	20.13	20.34	20.20	21.2

n41 Other PA Ant0 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2552.99	2640	
Frequency (MHz)				2546.01	2552.99	2640	
100	PI/2 BPSK	1	1	19.99	20.15	19.87	
100	PI/2 BPSK	1	137	19.82	20.21	19.96	21.2
100	PI/2 BPSK	1	271	19.91	20.19	19.96	
100	PI/2 BPSK	135	0	19.84	20.33	19.98	21.2
100	PI/2 BPSK	135	69	19.93	20.14	19.93	21.2
100	PI/2 BPSK	135	138	20.02	20.17	20.08	21.2
100	PI/2 BPSK	270	0	20.03	20.33	20.04	
100	QPSK	1	1	20.02	20.38	20.09	
100	QPSK	1	137	20.02	20.32	20.04	21.2
100	QPSK	1	271	19.86	20.23	19.99	
100	QPSK	135	0	19.83	20.31	20.07	21.2
100	QPSK	135	69	19.88	20.33	19.93	21.2
100	QPSK	135	138	19.91	20.30	20.10	21.2
100	QPSK	270	0	19.99	20.28	19.95	
100	16QAM	1	1	20.01	20.15	20.04	21.2
100	16QAM	1	1	19.95	20.27	19.98	21.2
100	256QAM	1	1	19.89	20.20	19.92	21.2
Channel				502000	518998	520998	
Frequency (MHz)				502000	518998	520998	
90	QPSK	1	1	19.87	20.30	19.98	21.2
Channel				507204	518998	520998	
Frequency (MHz)				507204	518998	520998	
80	QPSK	1	1	19.99	20.23	19.99	21.2
Channel				506202	518998	531000	
Frequency (MHz)				506202	518998	531000	
70	QPSK	1	1	19.97	20.31	19.88	21.2
Channel				505200	518998	531998	
Frequency (MHz)				505200	518998	531998	
60	QPSK	1	1	19.81	20.21	20.02	21.2
Channel				504204	518998	532998	
Frequency (MHz)				504204	518998	532998	
50	QPSK	1	1	20.02	20.25	20.09	21.2
Channel				503202	518998	533000	
Frequency (MHz)				503202	518998	533000	
40	QPSK	1	1	19.93	20.20	20.03	21.2
Channel				502200	518998	534998	
Frequency (MHz)				502200	518998	534998	
30	QPSK	1	1	19.81	20.17	19.99	21.2
Channel				501204	518998	535998	
Frequency (MHz)				501204	518998	535998	
20	QPSK	1	1	19.84	20.28	19.89	21.2



### n2 Other PA Ant1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	15.97	15.97	15.87		
20	PI2 BPSK	1	53	16.04	16.03	15.90	17.1	0.0
20	PI2 BPSK	1	104	16.06	16.12	16.04		
20	PI2 BPSK	50	0	16.00	15.95	16.06	17.1	0.0
20	PI2 BPSK	50	28	16.05	16.01	16.00	17.1	0.0
20	PI2 BPSK	50	58	15.93	15.95	16.03	17.1	0.0
20	PI2 BPSK	100	0	16.14	16.06	15.85		
20	QPSK	1	1	16.14	16.17	16.06		
20	QPSK	1	53	16.09	16.05	15.89	17.1	0.0
20	QPSK	1	104	15.97	16.05	15.91		
20	QPSK	50	0	16.05	16.10	16.02	17.1	0.0
20	QPSK	50	28	16.07	16.15	15.86	17.1	0.0
20	QPSK	50	58	16.10	15.97	16.07		
20	QPSK	100	0	16.09	16.14	15.86	17.1	0.0
20	16QAM	1	1	16.15	16.09	15.86	17.1	0.0
20	16QAM	1	1	16.11	16.14	15.91	17.1	0.0
20	256QAM	1	1	16.06	16.16	16.00	17.1	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	16.14	16.14	16.02	17.1	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	16.16	15.90	16.02	17.1	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	16.12	16.14	15.89	17.1	0.0

### n7 Other PA Ant1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	18.55	18.64	18.73		
40	PI2 BPSK	1	108	18.60	18.65	18.74	19.9	0.0
40	PI2 BPSK	1	214	18.56	18.77	18.73		
40	PI2 BPSK	108	0	18.67	18.71	18.76	19.9	0.0
40	PI2 BPSK	108	54	18.73	18.69	18.71	19.9	0.0
40	PI2 BPSK	108	108	18.76	18.74	18.78	19.9	0.0
40	PI2 BPSK	216	0	18.74	18.65	18.82		
40	QPSK	1	1	18.77	18.85	18.80		
40	QPSK	1	108	18.55	18.84	18.71	19.9	0.0
40	QPSK	1	214	18.68	18.72	18.77		
40	QPSK	108	0	18.70	18.73	18.80	19.9	0.0
40	QPSK	108	54	18.64	18.83	18.68	19.9	0.0
40	QPSK	108	108	18.61	18.80	18.70	19.9	0.0
40	QPSK	216	0	18.76	18.80	18.77		
40	16QAM	1	1	18.64	18.66	18.79	19.9	0.0
40	16QAM	1	1	18.70	18.78	18.84	19.9	0.0
40	256QAM	1	1	18.67	18.80	18.83	19.9	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.78	18.64	18.80	19.9	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.65	18.70	18.84	19.9	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	18.72	18.83	18.80	19.9	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.60	18.80	18.80	19.9	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.72	18.78	18.80	19.9	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.62	18.83	18.72	19.9	0.0

### n66 Other PA Ant1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.40	16.36	16.41		
40	PI2 BPSK	1	108	16.26	16.49	16.27	17.8	0.0
40	PI2 BPSK	1	214	16.33	16.31	16.40		
40	PI2 BPSK	108	0	16.40	16.34	16.41	17.8	0.0
40	PI2 BPSK	108	54	16.33	16.42	16.26	17.8	0.0
40	PI2 BPSK	108	108	16.24	16.39	16.31	17.8	0.0
40	PI2 BPSK	216	0	16.29	16.29	16.35		
40	QPSK	1	1	16.45	16.50	16.45		
40	QPSK	1	108	16.42	16.32	16.41	17.8	0.0
40	QPSK	1	214	16.38	16.36	16.43		
40	QPSK	108	0	16.39	16.35	16.28	17.8	0.0
40	QPSK	108	54	16.29	16.48	16.39	17.8	0.0
40	QPSK	108	108	16.27	16.42	16.33	17.8	0.0
40	QPSK	216	0	16.40	16.46	16.30		
40	16QAM	1	1	16.38	16.41	16.28	17.8	0.0
40	16QAM	1	1	16.28	16.38	16.33	17.8	0.0
40	256QAM	1	1	16.30	16.28	16.44	17.8	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	16.35	16.32	16.27	17.8	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.44	16.41	16.23	17.8	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.29	16.48	16.47	17.8	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.38	16.45	16.38	17.8	0.0
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.32	16.39	16.45	17.8	0.0



n38 Other PA Ant1 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5195.00	5199.96	
40	PI/2 BPSK	1	1	18.33	18.53	18.29	
40	PI/2 BPSK	1	53	18.38	18.64	18.35	19.6
40	PI/2 BPSK	1	104	18.45	18.72	18.49	
40	PI/2 BPSK	50	0	18.48	18.68	18.36	19.6
40	PI/2 BPSK	50	28	18.44	18.70	18.34	19.6
40	PI/2 BPSK	50	56	18.53	18.64	18.29	19.6
40	PI/2 BPSK	100	0	18.56	18.73	18.44	
40	QPSK	1	1	18.55	18.74	18.51	
40	QPSK	1	53	18.48	18.70	18.36	19.6
40	QPSK	1	104	18.47	17.72	18.43	
40	QPSK	50	0	18.41	18.68	18.31	19.6
40	QPSK	50	28	18.37	18.72	18.41	19.6
40	QPSK	80	56	18.37	18.66	18.43	19.6
40	QPSK	100	0	18.54	18.68	18.40	19.6
40	16QAM	1	1	18.37	18.64	18.46	19.6
40	16QAM	1	1	18.50	18.62	18.37	19.6
40	256QAM	1	1	18.37	18.61	18.52	19.6
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	18.44	18.70	18.34	19.6
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	18.44	18.72	18.44	19.6
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	18.48	18.68	18.38	19.6
Channel				515004	519000	522996	
Frequency (MHz)				2572.02	2595	2614.98	
10	QPSK	1	1	18.48	18.64	18.33	19.6

n41 Other PA Ant1 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.02	5185.98	5280.00	
100	PI/2 BPSK	1	1	18.44	18.56	18.61	
100	PI/2 BPSK	1	137	18.48	18.70	18.49	19.6
100	PI/2 BPSK	1	271	18.61	18.90	18.61	
100	PI/2 BPSK	135	0	18.54	18.64	18.46	19.6
100	PI/2 BPSK	135	69	18.52	18.66	18.63	19.6
100	PI/2 BPSK	135	138	18.62	18.70	18.59	19.6
100	PI/2 BPSK	270	0	18.44	18.58	18.60	
100	QPSK	1	1	18.63	18.71	18.85	
100	QPSK	1	137	18.53	18.61	18.64	19.6
100	QPSK	1	271	18.62	18.63	18.61	
100	QPSK	135	0	18.59	18.63	18.64	19.6
100	QPSK	135	69	18.46	18.66	18.57	19.6
100	QPSK	135	138	18.58	18.60	18.55	19.6
100	QPSK	270	0	18.51	18.60	18.58	19.6
100	16QAM	1	1	18.43	18.56	18.62	19.6
100	16QAM	1	1	18.43	18.59	18.51	19.6
100	256QAM	1	1	18.44	18.51	18.57	19.6
Channel				509200	518598	528098	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	18.63	18.56	18.53	19.6
Channel				507204	518598	529898	
Frequency (MHz)				2536.02	2592.99	2648.98	
80	QPSK	1	1	18.64	18.59	18.43	19.6
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	18.60	18.67	18.64	19.6
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	18.47	18.69	18.67	19.6
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.98	
50	QPSK	1	1	18.55	18.67	18.58	19.6
Channel				503202	518598	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	18.48	18.64	18.48	19.6
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	18.44	18.61	18.59	19.6
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.98	
20	QPSK	1	1	18.46	18.62	18.48	19.6



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37000	37000	38000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	16QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel				37150	37600	38050	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1925	1930	1935		
10	QPSK	1	1	21.26	21.29	21.14	23.0	0.0
Channel				370500	376000	381500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				50400	50700	51000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	19.65	19.52	19.59		
40	PI2 BPSK	1	108	19.54	19.59	19.55	21.5	0.0
40	PI2 BPSK	1	216	19.53	19.59	19.55	21.5	0.0
40	PI2 BPSK	108	0	19.56	19.84	19.54	21.5	0.0
40	PI2 BPSK	108	54	19.58	19.63	19.60	21.5	0.0
40	PI2 BPSK	108	108	19.57	19.81	19.63	21.5	0.0
40	PI2 BPSK	216	0	19.62	19.54	19.51		
40	QPSK	1	1	19.67	19.65	19.58		
40	QPSK	1	108	19.55	19.51	19.56	21.5	0.0
40	QPSK	1	216	19.63	19.59	19.55		
40	QPSK	108	0	19.64	19.55	19.52	21.5	0.0
40	QPSK	108	54	19.63	19.59	19.54	21.5	0.0
40	QPSK	108	108	19.54	19.51	19.54	21.5	0.0
40	QPSK	216	0	19.54	19.57	19.51		
40	16QAM	1	1	19.51	19.54	19.53	21.5	0.0
40	16QAM	1	1	19.69	19.55	19.54	21.5	0.0
40	256QAM	1	1	19.52	19.54	19.58	21.5	0.0
Channel				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.25	19.53	19.41	21.5	0.0
Channel				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	19.39	19.51	19.40	21.5	0.0
Channel				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	19.69	19.55	19.54	21.5	0.0
Channel				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.67	19.53	19.56	21.5	0.0
Channel				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.60	19.59	19.59	21.5	0.0
Channel				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.54	19.58	19.54	21.5	0.0

### n66 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.12	21.18	21.11		
40	PI2 BPSK	1	108	21.03	21.19	21.04	23.0	0.0
40	PI2 BPSK	1	216	21.08	21.15	21.04	23.0	0.0
40	PI2 BPSK	108	0	21.11	21.13	21.07	23.0	0.0
40	PI2 BPSK	108	54	21.01	21.13	21.06	23.0	0.0
40	PI2 BPSK	108	108	21.03	21.15	21.08	23.0	0.0
40	PI2 BPSK	216	0	21.06	21.13	21.08		
40	QPSK	1	1	21.17	21.23	21.13		
40	QPSK	1	108	21.10	21.14	21.12	23.0	0.0
40	QPSK	1	216	21.22	21.22	21.03		
40	QPSK	108	0	21.03	21.15	21.06	23.0	0.0
40	QPSK	108	54	21.15	21.17	21.16	23.0	0.0
40	QPSK	108	108	21.10	21.14	21.08	23.0	0.0
40	QPSK	216	0	21.13	21.15	21.14		
40	16QAM	1	1	21.13	21.16	21.04	23.0	0.0
40	16QAM	1	1	20.25	20.24	20.05	22.0	1.0
40	256QAM	1	1	18.02	18.23	18.12	20.0	3.0
Channel				345000	349000	353000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.11	21.21	21.10	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.14	21.18	21.01	23.0	0.0
Channel				343000	349000	354500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.07	21.21	21.13	23.0	0.0
Channel				342000	349000	355000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.14	21.08	21.02	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.02	21.12	21.05	23.0	0.0

20.97 20.94 20.99



n38 Other PA Ant2 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				19.60	19.63	19.64	
40	PI2 BPSK	1	1	19.60	19.63	19.64	
40	PI2 BPSK	1	53	19.67	19.67	19.66	21.4
40	PI2 BPSK	1	104	19.58	19.72	19.64	
40	PI2 BPSK	50	0	19.47	19.68	19.72	21.4
40	PI2 BPSK	50	28	19.46	19.56	19.53	21.4
40	PI2 BPSK	50	56	19.59	19.65	19.65	21.4
40	PI2 BPSK	100	0	19.52	19.54	19.55	
40	QPSK	1	1	19.62	19.73	19.71	
40	QPSK	1	53	19.60	19.69	19.59	21.4
40	QPSK	1	104	19.61	19.64	19.62	
40	QPSK	50	0	19.62	19.72	19.60	21.4
40	QPSK	50	28	19.50	19.67	19.56	21.4
40	QPSK	80	56	19.62	19.69	19.71	21.4
40	QPSK	100	0	19.53	19.60	19.51	
40	16QAM	1	1	19.58	19.70	19.60	21.4
40	16QAM	1	1	19.47	19.62	19.63	21.4
40	256QAM	1	1	18.23	18.15	17.99	1.5
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	19.62	19.72	19.58	21.4
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	19.44	19.65	19.53	21.4
Channel				515502	519000	520498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	19.58	19.63	19.52	21.4
Channel				515004	519000	520996	
Frequency (MHz)				2675.02	2595	2614.98	
10	QPSK	1	1	19.48	19.56	19.60	21.4

n41 Other PA Ant2 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				19.87	20.06	19.79	
100	PI2 BPSK	1	1	19.87	20.06	19.79	
100	PI2 BPSK	1	137	19.90	20.06	19.82	21.4
100	PI2 BPSK	1	271	19.73	20.08	19.94	
100	PI2 BPSK	135	0	19.79	20.03	19.86	21.4
100	PI2 BPSK	135	69	19.83	19.95	19.78	21.4
100	PI2 BPSK	135	138	19.91	19.97	19.76	21.4
100	PI2 BPSK	270	0	19.86	20.05	19.84	
100	QPSK	1	1	19.91	20.09	19.95	
100	QPSK	1	137	19.77	19.94	19.86	21.4
100	QPSK	1	271	19.91	20.05	19.85	
100	QPSK	135	0	19.73	20.05	19.77	21.4
100	QPSK	135	69	19.73	19.89	19.82	21.4
100	QPSK	135	138	19.86	19.95	19.83	21.4
100	QPSK	270	0	19.81	20.00	19.82	
100	16QAM	1	1	19.88	19.95	19.74	21.4
100	16QAM	1	1	19.81	19.95	19.85	21.4
100	256QAM	1	1	19.77	20.06	19.83	21.4
Channel				506000	518000	520000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	19.74	20.02	19.92	21.4
Channel				507204	518998	520998	
Frequency (MHz)				2536.02	2592.99	2640.99	
80	QPSK	1	1	19.74	20.03	19.76	21.4
Channel				506202	518998	520000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.89	19.94	19.84	21.4
Channel				505200	518998	520998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	19.83	19.93	19.90	21.4
Channel				504204	518998	520998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	19.73	19.89	19.93	21.4
Channel				503202	518998	520000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.82	20.08	19.86	21.4
Channel				502200	518998	520998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.83	19.90	19.87	21.4
Channel				501204	518998	520998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.87	19.98	19.86	21.4



### n2 Other PA Ant3 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	19.82	19.91	19.62		
20	PI2 BPSK	1	53	19.84	19.86	19.79	21.1	0.0
20	PI2 BPSK	1	104	19.74	19.79	19.88		
20	PI2 BPSK	50	0	19.83	19.82	19.70	21.1	0.0
20	PI2 BPSK	50	28	19.69	19.84	19.69	21.1	0.0
20	PI2 BPSK	50	58	19.74	19.89	19.68	21.1	0.0
20	PI2 BPSK	100	0	19.75	19.87	19.77		
20	QPSK	1	1	19.82	19.95	19.84		
20	QPSK	1	53	19.82	19.73	19.83	21.1	0.0
20	QPSK	1	104	19.79	19.88	19.82		
20	QPSK	50	0	19.80	19.88	19.82	21.1	0.0
20	QPSK	50	28	19.61	19.90	19.82	21.1	0.0
20	QPSK	50	58	19.05	19.85	19.88		
20	QPSK	100	0	19.83	19.85	19.72	21.1	0.0
20	16QAM	1	1	19.69	19.83	19.69	21.1	0.0
20	64QAM	1	1	19.77	19.89	19.84	21.1	0.0
20	256QAM	1	1	19.19	19.24	19.09	20.6	0.5
Channel								
Frequency (MHz)				37000	37000	38000		
15	QPSK	1	1	19.67	19.91	19.65	21.1	0.0
Channel								
Frequency (MHz)				371000	376000	381000		
10	QPSK	1	1	19.55	19.80	19.05	21.1	0.0
Channel								
Frequency (MHz)				375000	376000	381500		
5	QPSK	1	1	19.82	19.80	19.07	21.1	0.0

### n7 Other PA Ant3 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	19.47	19.55	19.61		
40	PI2 BPSK	1	108	19.45	19.81	19.51	21.0	0.0
40	PI2 BPSK	1	214	19.49	19.72	19.48		
40	PI2 BPSK	108	0	19.57	19.70	19.61	21.0	0.0
40	PI2 BPSK	108	54	19.38	19.63	19.46	21.0	0.0
40	PI2 BPSK	108	108	19.40	19.55	19.42	21.0	0.0
40	PI2 BPSK	216	0	19.43	19.65	19.44		
40	QPSK	1	1	19.57	19.73	19.61		
40	QPSK	1	108	19.52	19.70	19.47	21.0	0.0
40	QPSK	1	214	19.44	19.60	19.57		
40	QPSK	108	0	19.53	19.55	19.51	21.0	0.0
40	QPSK	108	54	19.39	19.69	19.60	21.0	0.0
40	QPSK	108	108	19.58	19.58	19.41	21.0	0.0
40	QPSK	216	0	19.37	19.66	19.57		
40	16QAM	1	1	19.41	19.72	19.49	21.0	0.0
40	64QAM	1	1	19.38	19.83	19.47	21.0	0.0
40	256QAM	1	1	19.44	19.67	19.57	21.0	0.0
Channel								
Frequency (MHz)				50300	50700	51100		
30	QPSK	1	1	19.44	19.58	19.56	21.0	0.0
Channel								
Frequency (MHz)				502000	507000	511500		
25	QPSK	1	1	25.72	25.53	25.75	21.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000		
20	PI2 BPSK	1	1	19.44	19.71	19.53	21.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500		
15	QPSK	1	1	19.53	19.58	19.41	21.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000		
10	QPSK	1	1	19.55	25.35	25.65	21.0	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.40	19.65	19.48	21.0	0.0

### n66 Other PA Ant3 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.83	20.09	19.92		
40	PI2 BPSK	1	108	19.90	20.22	19.92	21.2	0.0
40	PI2 BPSK	1	214	19.78	20.10	20.10		
40	PI2 BPSK	108	0	19.80	20.27	19.94	21.2	0.0
40	PI2 BPSK	108	54	19.82	20.09	20.11	21.2	0.0
40	PI2 BPSK	108	108	19.85	20.06	19.99	21.2	0.0
40	PI2 BPSK	216	0	19.93	20.24	19.93		
40	QPSK	1	1	19.97	20.26	20.12		
40	QPSK	1	108	19.79	20.14	19.91	21.2	0.0
40	QPSK	1	214	19.97	20.18	19.91		
40	QPSK	108	0	19.76	20.23	20.11	21.2	0.0
40	QPSK	108	54	19.78	20.25	19.97	21.2	0.0
40	QPSK	108	108	19.85	20.22	20.02	21.2	0.0
40	QPSK	216	0	19.94	20.23	20.08		
40	16QAM	1	1	19.83	20.13	20.06	21.2	0.0
40	64QAM	1	1	19.86	20.12	20.01	21.2	0.0
40	256QAM	1	1	19.83	19.84	19.96	20.2	1.0
Channel								
Frequency (MHz)				34500	34900	35300		
30	QPSK	1	1	19.99	20.26	20.04	21.2	0.0
Channel								
Frequency (MHz)				344000	349000	354000		
20	QPSK	1	1	17.20	17.45	17.70	21.2	0.0
Channel								
Frequency (MHz)				343500	349000	354500		
15	QPSK	1	1	19.71	19.45	19.72	21.2	0.0
Channel								
Frequency (MHz)				342500	349000	355000		
10	QPSK	1	1	19.83	20.14	20.11	21.2	0.0
Channel								
Frequency (MHz)				342000	349000	355500		
5	QPSK	1	1	17.12	17.45	17.77	21.2	0.0



n38 Other PA Ant3 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				19.74	19.72	19.38	
40	PI2 BPSK	1	1	19.60	19.59	19.38	21.0
40	PI2 BPSK	1	53	19.75	19.70	19.45	0.0
40	PI2 BPSK	50	0	19.75	19.57	19.57	21.0
40	PI2 BPSK	50	28	19.56	19.59	19.41	0.0
40	PI2 BPSK	50	56	19.59	19.57	19.34	21.0
40	PI2 BPSK	100	0	19.61	19.64	19.37	0.0
40	QPSK	1	1	19.75	19.76	19.56	21.0
40	QPSK	1	53	19.64	19.70	19.58	0.0
40	QPSK	1	104	19.64	19.64	19.45	0.0
40	QPSK	50	0	19.70	19.57	19.36	21.0
40	QPSK	50	28	19.70	19.74	19.49	0.0
40	QPSK	80	56	19.55	19.70	19.41	0.0
40	QPSK	100	0	19.59	19.69	19.38	21.0
40	16QAM	1	1	19.62	19.68	19.37	0.0
40	16QAM	1	1	19.64	19.58	19.39	21.0
40	256QAM	1	1	18.27	18.53	18.39	20.0
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	19.70	19.65	19.57	21.0
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	19.61	19.71	19.55	21.0
Channel				515502	519000	520498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	19.58	19.57	19.57	21.0
Channel				515004	519000	520998	
Frequency (MHz)				2573.02	2595	2614.98	
10	QPSK	1	1	19.72	19.63	19.43	21.0

n41 Other PA Ant3 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				19.27	19.58	19.36	
100	PI2 BPSK	1	1	19.31	19.66	19.33	21.0
100	PI2 BPSK	1	137	19.28	19.68	19.47	0.0
100	PI2 BPSK	135	0	19.32	19.58	19.53	21.0
100	PI2 BPSK	135	69	19.19	19.62	19.45	0.0
100	PI2 BPSK	135	138	19.32	19.67	19.45	21.0
100	PI2 BPSK	270	0	19.27	19.54	19.53	0.0
100	QPSK	1	1	19.31	19.69	19.54	21.0
100	QPSK	1	137	19.20	19.47	19.51	0.0
100	QPSK	1	271	19.17	19.58	19.32	0.0
100	QPSK	135	0	19.21	19.49	19.56	21.0
100	QPSK	135	69	19.30	19.68	19.33	0.0
100	QPSK	135	138	19.22	19.60	19.48	21.0
100	QPSK	270	0	19.25	19.52	19.48	0.0
100	16QAM	1	1	19.29	19.55	19.43	21.0
100	16QAM	1	1	19.30	19.50	19.55	21.0
100	256QAM	1	1	19.15	19.68	19.44	21.0
Channel				506000	518998	520998	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	19.14	19.60	19.41	21.0
Channel				507204	518998	520998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	19.22	19.67	19.47	21.0
Channel				506202	518998	520998	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.10	19.58	19.50	21.0
Channel				505200	518998	520998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	19.25	19.68	19.54	21.0
Channel				504204	518998	520998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	19.26	19.57	19.53	21.0
Channel				503202	518998	520998	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.09	19.68	19.50	21.0
Channel				502200	518998	520998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.25	19.52	19.35	21.0
Channel				501204	518998	520998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.29	19.57	19.48	21.0





### n2 Other PA Ant0 DSI5 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				372000	376000	380000		
				1860	1880	1900		
20	PI2 BPSK	1	1	19.47	19.57	19.25	21.1	0.0
20	PI2 BPSK	1	53	19.52	19.45	19.29		
20	PI2 BPSK	1	104	19.44	19.40	19.39		
20	PI2 BPSK	50	0	19.52	19.52	19.52	21.1	0.0
20	PI2 BPSK	50	28	19.51	19.29	19.36	21.1	0.0
20	PI2 BPSK	50	56	19.39	19.36	19.27	21.1	0.0
20	PI2 BPSK	100	0	19.26	19.54	19.49		
20	QPSK	1	1	19.45	19.55	19.52	21.1	0.0
20	QPSK	1	53	19.34	19.52	19.37		
20	QPSK	1	104	19.34	19.47	19.18		
20	QPSK	50	0	19.42	19.47	19.38	21.1	0.0
20	QPSK	50	28	19.46	19.45	19.38	21.1	0.0
20	QPSK	50	56	19.39	19.36	19.18	21.1	0.0
20	QPSK	100	0	19.42	19.44	19.38		
20	16QAM	1	1	19.43	19.55	19.43	21.1	0.0
20	64QAM	1	1	19.57	19.43	19.38	21.1	0.0
20	256QAM	1	1	19.34	19.36	19.33	21.1	0.0
Channel								
				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
				1857.5	1880	1927.5		
15	QPSK	1	1	19.31	19.36	19.37	21.1	0.0
Channel								
				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
				1855	1880	1905		
10	QPSK	1	1	19.34	19.37	19.27	21.1	0.0
Channel								
				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
				1852.5	1880	1907.5		
5	QPSK	1	1	19.44	19.47	19.21	21.1	0.0

### Reduced Power Mode for Other PA DSI5 Simultaneous

### n7 Other PA Ant0 DSI5 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				504000	507000	510000		
				2520	2535	2550		
40	PI2 BPSK	1	1	17.30	17.56	17.40		
40	PI2 BPSK	1	108	17.39	17.49	17.26		
40	PI2 BPSK	1	214	17.31	17.34	17.23		
40	PI2 BPSK	108	0	17.11	17.49	17.33	19.0	0.0
40	PI2 BPSK	108	54	17.10	17.31	17.44	19.0	0.0
40	PI2 BPSK	108	108	17.23	17.40	17.43		
40	PI2 BPSK	216	0	17.24	17.38	17.52	19.0	0.0
40	QPSK	1	1	17.47	17.61	17.41		
40	QPSK	1	108	17.30	17.41	17.36	19.0	0.0
40	QPSK	1	214	17.33	17.47	17.38		
40	QPSK	108	0	17.33	17.44	17.50	19.0	0.0
40	QPSK	108	54	17.47	17.58	17.40	19.0	0.0
40	QPSK	108	108	17.06	17.39	17.46	19.0	0.0
40	QPSK	216	0	17.41	17.52	17.38		
40	16QAM	1	1	17.30	17.36	17.31	19.0	0.0
40	64QAM	1	1	17.27	17.60	17.45	19.0	0.0
40	256QAM	1	1	17.18	17.44	17.57	19.0	0.0
Channel								
				503500	507000	511000	Tune-up limit (dBm)	MPR (dB)
				2515	2535	2555		
30	QPSK	1	1	17.35	17.36	17.46	19.0	0.0
Channel								
				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
				2512.5	2535	2557.5		
25	QPSK	1	1	17.53	17.86	17.57	19.0	0.0
Channel								
				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
				2510	2535	2560		
20	PI2 BPSK	1	1	17.24	17.44	17.57	19.0	0.0
Channel								
				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
				2507.5	2535	2562.5		
15	QPSK	1	1	17.16	17.34	17.37	19.0	0.0
Channel								
				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
				2505	2535	2565		
10	QPSK	1	1	17.25	17.41	17.47	19.0	0.0
Channel								
				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
				2502.5	2535	2567.5		
5	QPSK	1	1	17.31	17.51	17.53	19.0	0.0

### n66 Other PA Ant0 DSI5 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				345000	349000	353000		
				1725	1745	1765		
40	PI2 BPSK	1	1	18.46	18.42	18.33		
40	PI2 BPSK	1	108	18.22	18.05	18.27	19.8	0.0
40	PI2 BPSK	1	214	18.37	18.54	18.32		
40	PI2 BPSK	108	0	18.32	18.52	18.24	19.8	0.0
40	PI2 BPSK	108	54	18.48	18.50	18.24	19.8	0.0
40	PI2 BPSK	108	108	18.32	18.83	18.36		
40	PI2 BPSK	216	0	18.36	18.62	18.40	19.8	0.0
40	QPSK	1	1	18.52	18.70	18.59		
40	QPSK	1	108	18.44	18.66	18.58	19.8	0.0
40	QPSK	1	214	18.32	18.52	18.36		
40	QPSK	108	0	18.35	18.65	18.30	19.8	0.0
40	QPSK	108	54	18.56	18.67	18.52	19.8	0.0
40	QPSK	108	108	18.48	18.55	18.36		
40	QPSK	216	0	18.40	18.56	18.48	19.8	0.0
40	16QAM	1	1	18.40	18.50	18.12	19.8	0.0
40	64QAM	1	1	18.32	18.52	18.26	19.8	0.0
40	256QAM	1	1	18.48	18.46	18.43	19.8	0.0
Channel								
				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
				1725	1745	1765		
30	QPSK	1	1	18.38	18.50	18.30	19.8	0.0
Channel								
				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
				1720	1745	1770		
20	QPSK	1	1	18.49	18.54	18.45	19.8	0.0
Channel								
				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
				1717.5	1745	1772.5		
15	QPSK	1	1	18.52	18.63	18.33	19.8	0.0
Channel								
				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
				1715	1745	1775		
10	QPSK	1	1	18.57	18.48	18.36	19.8	0.0
Channel								
				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
				1712.5	1745	1777.5		
5	QPSK	1	1	18.43	18.43	18.28	19.8	0.0



n38 Other PA Ant0 DS15 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519300	519396	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	17.60	17.85	17.82	
40	PI/2 BPSK	1	53	17.69	17.83	17.72	18.8
40	PI/2 BPSK	1	104	17.63	17.70	17.72	18.8
40	PI/2 BPSK	50	0	17.69	17.81	17.57	18.8
40	PI/2 BPSK	50	28	17.53	17.68	17.78	18.8
40	PI/2 BPSK	50	56	17.52	17.78	17.73	18.8
40	PI/2 BPSK	100	0	17.57	17.81	17.62	18.8
40	QPSK	1	1	17.68	17.89	17.78	18.8
40	QPSK	1	53	17.48	17.74	17.70	18.8
40	QPSK	1	104	17.59	17.78	17.66	18.8
40	QPSK	50	0	17.63	17.73	17.71	18.8
40	QPSK	50	28	17.73	17.78	17.66	18.8
40	QPSK	50	56	17.48	17.72	17.64	18.8
40	QPSK	100	0	17.67	17.75	17.64	18.8
40	16QAM	1	1	17.62	17.82	17.62	18.8
40	16QAM	1	1	17.38	17.70	17.71	18.8
40	256QAM	1	1	17.75	17.75	17.65	18.8
Channel				517002	519000	520998	
Frequency (MHz)				2585.91	2595	2604.99	
30	QPSK	1	1	17.63	17.83	17.65	18.8
Channel				516000	519000	522000	
Frequency (MHz)				2550	2595	2610	
20	QPSK	1	1	17.64	17.73	17.56	18.8
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	17.59	17.67	17.81	18.8
Channel				515004	519000	522998	
Frequency (MHz)				2675.02	2595	2614.98	
10	QPSK	1	1	17.68	17.80	17.66	18.8

n41 Other PA Ant0 DS15 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				526202	518998	529200	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.32	17.77	17.52	
100	PI/2 BPSK	1	137	17.22	17.83	17.21	18.8
100	PI/2 BPSK	1	271	17.37	17.82	17.36	18.8
100	PI/2 BPSK	135	0	17.26	17.68	17.26	18.8
100	PI/2 BPSK	135	69	17.32	17.77	17.28	18.8
100	PI/2 BPSK	135	138	17.49	17.85	17.42	18.8
100	PI/2 BPSK	270	0	17.31	17.89	17.26	18.8
100	QPSK	1	1	17.71	17.94	17.85	18.8
100	QPSK	1	137	17.74	17.91	17.38	18.8
100	QPSK	1	271	17.31	17.80	17.26	18.8
100	QPSK	135	0	17.36	17.79	17.53	18.8
100	QPSK	135	69	17.67	17.80	17.50	18.8
100	QPSK	135	138	17.33	17.84	17.26	18.8
100	QPSK	270	0	17.52	17.67	17.38	18.8
100	16QAM	1	1	17.38	17.71	17.42	18.8
100	16QAM	1	1	17.47	17.74	17.26	18.8
100	256QAM	1	1	17.21	17.78	17.29	18.8
Channel				526200	518998	529198	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	17.41	17.74	17.50	18.8
Channel				507204	518998	529998	
Frequency (MHz)				2538.02	2592.99	2649.99	
80	QPSK	1	1	17.51	17.67	17.33	18.8
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	17.44	17.62	17.31	18.8
Channel				505200	518998	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	17.50	17.83	17.54	18.8
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	17.52	17.72	17.37	18.8
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	17.39	17.74	17.51	18.8
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	17.43	17.63	17.53	18.8
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	17.53	17.79	17.42	18.8



n2 Other PA Ant1 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	15.59	15.54	15.41			
20	PI2 BPSK	1	53	15.45	15.64	15.49	16.6	0.0	
20	PI2 BPSK	1	164	15.40	15.52	15.48			
20	PI2 BPSK	50	0	15.51	15.83	15.41	16.6	0.0	
20	PI2 BPSK	50	28	15.35	15.62	15.64	16.6	0.0	
20	PI2 BPSK	50	58	15.53	15.62	15.52	16.6	0.0	
20	PI2 BPSK	100	0	15.25	15.50	15.52			
20	QPSK	1	1	15.50	15.68	15.45			
20	QPSK	1	53	15.28	15.48	15.43	16.6	0.0	
20	QPSK	1	104	15.41	15.62	15.53			
20	QPSK	50	0	15.56	15.53	15.46	16.6	0.0	
20	QPSK	50	28	15.38	15.65	15.61	16.6	0.0	
20	QPSK	50	58	15.49	15.49	15.41			
20	QPSK	100	0	15.52	15.56	15.55	16.6	0.0	
20	16QAM	1	1	15.59	15.65	15.53	16.6	0.0	
20	16QAM	1	1	15.46	15.56	15.44	16.6	0.0	
20	256QAM	1	1	15.36	15.53	15.39	16.6	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	15.23	15.56	15.46	16.6	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	15.30	15.55	15.55	16.6	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	15.43	15.58	15.50	16.6	0.0	

n7 Other PA Ant1 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	17.55	17.59	17.59			
40	PI2 BPSK	1	108	17.50	17.53	17.63	18.9	0.0	
40	PI2 BPSK	1	214	17.54	17.73	17.60			
40	PI2 BPSK	108	0	17.51	17.66	17.83	18.9	0.0	
40	PI2 BPSK	108	54	17.70	17.65	17.69	18.9	0.0	
40	PI2 BPSK	108	108	17.77	17.84	17.73	18.9	0.0	
40	PI2 BPSK	216	0	17.71	17.83	17.67			
40	QPSK	1	1	17.65	17.84	17.76			
40	QPSK	1	108	17.40	17.78	17.59	18.9	0.0	
40	QPSK	1	214	17.52	17.58	17.77			
40	QPSK	108	0	17.62	17.84	17.77	18.9	0.0	
40	QPSK	108	54	17.57	17.82	17.70	18.9	0.0	
40	QPSK	108	108	17.65	17.81	17.61			
40	QPSK	216	0	17.72	17.78	17.73	18.9	0.0	
40	16QAM	1	1	17.64	17.51	17.73	18.9	0.0	
40	16QAM	1	1	17.58	17.84	17.78	18.9	0.0	
40	256QAM	1	1	17.63	17.81	17.76	18.9	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.61	17.63	17.68	18.9	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	17.71	17.53	17.50	18.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	17.57	17.69	17.83	18.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.67	17.69	17.70	18.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	17.74	17.57	17.74	18.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	17.71	17.59	17.69	18.9	0.0	

n66 Other PA Ant1 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	16.15	16.33	16.14			
40	PI2 BPSK	1	108	16.20	16.27	15.93	17.3	0.0	
40	PI2 BPSK	1	214	16.24	16.33	16.36			
40	PI2 BPSK	108	0	16.17	16.30	16.19	17.3	0.0	
40	PI2 BPSK	108	54	16.40	16.32	16.33	17.3	0.0	
40	PI2 BPSK	108	108	16.28	16.37	16.16	17.3	0.0	
40	PI2 BPSK	216	0	16.21	16.44	16.05			
40	QPSK	1	1	16.28	16.56	16.21			
40	QPSK	1	108	16.23	16.38	16.07	17.3	0.0	
40	QPSK	1	214	16.17	16.33	16.08			
40	QPSK	108	0	16.05	16.50	16.16	17.3	0.0	
40	QPSK	108	54	16.39	16.51	16.39	17.3	0.0	
40	QPSK	108	108	16.30	16.44	16.30			
40	QPSK	216	0	16.16	16.45	16.12	17.3	0.0	
40	16QAM	1	1	16.10	16.41	16.14	17.3	0.0	
40	16QAM	1	1	16.37	16.32	16.02	17.3	0.0	
40	256QAM	1	1	16.12	16.32	16.18	17.3	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	16.28	16.41	16.17	17.3	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.31	16.29	16.11	17.3	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.29	16.26	16.12	17.3	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.20	16.41	16.16	17.3	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.23	16.38	16.08	17.3	0.0	



n38 Other PA Ant1 DS15 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				19.29	19.53	19.40	
40	PI2 BPSK	1	1	19.29	19.53	19.40	
40	PI2 BPSK	1	53	19.33	19.48	19.20	20.6
40	PI2 BPSK	1	104	19.46	19.54	19.43	
40	PI2 BPSK	50	0	19.52	19.39	19.23	20.6
40	PI2 BPSK	50	28	19.33	19.46	19.12	20.6
40	PI2 BPSK	50	56	19.34	19.52	19.25	20.6
40	PI2 BPSK	100	0	19.38	19.44	19.35	
40	QPSK	1	1	19.53	19.58	19.46	
40	QPSK	1	53	19.42	19.57	19.23	20.6
40	QPSK	1	104	19.39	19.41	19.23	
40	QPSK	50	0	19.46	19.51	19.19	20.6
40	QPSK	50	28	19.36	19.58	19.09	20.6
40	QPSK	80	56	19.35	19.48	19.35	20.6
40	QPSK	100	0	19.46	19.54	19.29	20.6
40	16QAM	1	1	19.48	19.40	19.09	20.6
40	16QAM	1	1	19.34	19.53	19.25	20.6
40	256QAM	1	1	18.84	18.89	18.76	19.1
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.91	2595	2604.99	
30	QPSK	1	1	19.41	19.44	19.19	20.6
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	19.44	19.52	19.08	20.6
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	19.38	19.39	19.20	20.6
Channel				515004	519000	522996	
Frequency (MHz)				2673.02	2595	2614.98	
10	QPSK	1	1	19.45	19.48	19.12	20.6

n41 Other PA Ant1 DS15 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				19.53	18.61	19.39	
100	PI2 BPSK	1	1	19.53	18.61	19.39	
100	PI2 BPSK	1	137	19.65	19.67	19.40	20.6
100	PI2 BPSK	1	271	19.57	19.68	19.23	
100	PI2 BPSK	135	0	19.56	19.57	19.35	20.6
100	PI2 BPSK	135	69	19.54	19.52	19.32	20.6
100	PI2 BPSK	135	138	19.38	19.74	19.38	20.6
100	PI2 BPSK	270	0	19.53	19.61	19.54	
100	QPSK	1	1	19.46	19.63	19.47	
100	QPSK	1	137	19.56	19.64	19.37	20.6
100	QPSK	1	271	19.40	19.63	19.47	
100	QPSK	135	0	19.35	19.65	19.62	20.6
100	QPSK	135	69	19.47	19.63	19.24	20.6
100	QPSK	135	138	19.54	19.45	19.26	20.6
100	QPSK	270	0	19.43	19.77	19.57	20.6
100	16QAM	1	1	19.58	19.56	19.52	20.6
100	16QAM	1	1	19.60	19.66	19.55	20.6
100	256QAM	1	1	19.47	19.77	19.45	20.6
Channel				506200	518598	526398	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	19.54	19.57	19.63	20.6
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	19.41	19.61	19.54	20.6
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.45	19.78	19.53	20.6
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	19.33	19.68	19.54	20.6
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	19.43	19.75	19.58	20.6
Channel				503202	518598	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.36	19.63	19.61	20.6
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.44	19.67	19.53	20.6
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.32	19.62	19.54	20.6



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37000	37000	38000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	84QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel				37150	37600	38050	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1025	1030	1035		
10	QPSK	1	1	21.26	21.29	21.14	23.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				50400	50700	51000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	18.59	18.46	18.57		
40	PI2 BPSK	1	108	18.60	18.55	18.52	19.5	0.0
40	PI2 BPSK	1	216	18.50	18.44	18.52	19.5	0.0
40	PI2 BPSK	108	0	18.54	18.62	18.38	19.5	0.0
40	PI2 BPSK	108	54	18.52	18.47	18.51	19.5	0.0
40	PI2 BPSK	108	108	18.61	18.53	18.64	19.5	0.0
40	PI2 BPSK	216	0	18.61	18.37	18.40		
40	QPSK	1	1	18.58	18.55	18.51		
40	QPSK	1	108	18.55	18.49	18.40	19.5	0.0
40	QPSK	1	214	18.58	18.49	18.57		
40	QPSK	108	0	18.51	18.50	18.53	19.5	0.0
40	QPSK	108	54	18.42	18.59	18.57	19.5	0.0
40	QPSK	108	108	18.54	18.35	18.48		
40	QPSK	216	0	18.43	18.58	18.39	19.5	0.0
40	16QAM	1	1	18.54	18.43	18.49	19.5	0.0
40	84QAM	1	1	18.45	18.58	18.58	19.5	0.0
40	256QAM	1	1	18.41	18.46	18.43	19.5	0.0
Channel				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.46	18.36	18.49	19.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2532	2557.5		
25	QPSK	1	1	18.42	18.34	18.54	19.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	18.56	18.44	18.48	19.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.51	18.53	18.52	19.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.44	18.51	18.50	19.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.38	18.43	18.43	19.5	0.0

### n66 Other PA Ant2 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				34600	34900	35200		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	20.22	20.08	20.07		
40	PI2 BPSK	1	108	20.15	20.10	20.09	22.0	0.0
40	PI2 BPSK	1	214	20.20	20.13	20.10		
40	PI2 BPSK	108	0	20.04	20.03	20.07	22.0	0.0
40	PI2 BPSK	108	54	20.21	20.01	20.07	22.0	0.0
40	PI2 BPSK	108	108	20.10	20.21	20.14	22.0	0.0
40	PI2 BPSK	216	0	20.22	20.05	20.13		
40	QPSK	1	1	20.05	20.24	20.02		
40	QPSK	1	108	20.04	20.06	20.04	22.0	0.0
40	QPSK	1	214	20.19	20.22	20.08		
40	QPSK	108	0	20.13	20.01	20.08	22.0	0.0
40	QPSK	108	54	20.02	20.16	20.15	22.0	0.0
40	QPSK	108	108	20.01	20.15	20.08	22.0	0.0
40	QPSK	216	0	20.11	20.15	20.09		
40	16QAM	1	1	20.19	20.04	20.01	22.0	0.0
40	84QAM	1	1	20.13	20.16	20.01	22.0	0.0
40	256QAM	1	1	18.21	18.32	18.15	20.0	2.0
Channel				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.07	20.11	20.15	22.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.08	20.07	20.07	22.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.06	20.20	20.02	22.0	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.02	20.19	20.11	22.0	0.0
Channel				341000	349000	356500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.11	20.13	20.02	22.0	0.0



n38 Other PA Ant2 DS15 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5199.96	
40	PI/2 BPSK	1	1	18.45	18.42	18.05	
40	PI/2 BPSK	1	53	18.58	18.57	18.02	20.1
40	PI/2 BPSK	1	104	18.65	18.78	18.56	
40	PI/2 BPSK	50	0	18.44	18.58	18.70	20.1
40	PI/2 BPSK	50	28	18.53	18.40	18.41	20.1
40	PI/2 BPSK	50	56	18.50	18.60	18.49	20.1
40	PI/2 BPSK	100	0	18.37	18.58	18.49	
40	QPSK	1	1	18.55	18.78	18.08	
40	QPSK	1	53	18.64	18.62	18.00	20.1
40	QPSK	1	104	18.44	18.69	18.64	
40	QPSK	50	0	18.68	18.60	18.50	20.1
40	QPSK	50	28	18.55	18.70	18.39	20.1
40	QPSK	50	56	18.51	18.58	18.67	20.1
40	QPSK	100	0	18.60	18.67	18.52	
40	16QAM	1	1	18.49	18.58	18.63	20.1
40	16QAM	1	1	18.30	18.68	18.50	20.1
40	256QAM	1	1	17.75	17.81	17.67	19.6
Channel				5170.02	5190.00	5200.00	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	18.43	18.60	18.68	20.1
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	18.44	18.04	18.48	20.1
Channel				515502	519000	520498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	18.58	18.57	18.58	20.1
Channel				515004	519000	520996	
Frequency (MHz)				2575.02	2595	2614.98	
10	QPSK	1	1	18.45	18.78	18.52	20.1

n41 Other PA Ant2 DS15 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.02	5185.98	5280.00	
100	PI/2 BPSK	1	1	18.77	18.05	18.63	
100	PI/2 BPSK	1	137	18.83	19.03	18.83	20.1
100	PI/2 BPSK	1	271	18.74	18.97	18.89	
100	PI/2 BPSK	135	0	18.82	19.00	18.92	20.1
100	PI/2 BPSK	135	69	18.77	18.94	18.81	20.1
100	PI/2 BPSK	135	138	18.95	18.92	18.83	20.1
100	PI/2 BPSK	270	0	18.70	18.93	18.83	
100	QPSK	1	1	18.85	19.05	18.82	
100	QPSK	1	137	18.79	18.99	18.80	20.1
100	QPSK	1	271	18.92	19.00	18.70	
100	QPSK	135	0	18.73	18.98	18.79	20.1
100	QPSK	135	69	18.89	19.03	18.93	20.1
100	QPSK	135	138	18.84	18.92	18.76	20.1
100	QPSK	270	0	18.77	19.01	18.78	
100	16QAM	1	1	18.86	18.86	18.86	20.1
100	16QAM	1	1	18.83	18.96	18.86	20.1
100	256QAM	1	1	18.76	18.87	18.84	20.1
Channel				509200	518598	528000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	18.79	18.86	18.78	20.1
Channel				507204	518598	529988	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	18.85	18.90	18.84	20.1
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	18.62	19.02	18.80	20.1
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	18.63	18.88	18.74	20.1
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	18.63	19.00	18.89	20.1
Channel				503202	518598	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	18.84	18.89	18.83	20.1
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	18.84	18.83	18.70	20.1
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	18.74	19.06	18.90	20.1



n2 Other PA Ant3 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	18.09	18.80	18.63			
20	PI2 BPSK	1	53	18.57	18.84	18.74	20.1	0.0	
20	PI2 BPSK	1	104	18.59	18.84	18.55			
20	PI2 BPSK	50	0	18.82	18.71	18.82	20.1	0.0	
20	PI2 BPSK	50	28	18.69	18.76	18.65	20.1	0.0	
20	PI2 BPSK	50	58	18.58	18.91	18.57			
20	PI2 BPSK	100	0	18.82	18.92	18.72			
20	QPSK	1	1	18.79	18.97	18.81			
20	QPSK	1	53	18.69	18.60	18.77	20.1	0.0	
20	QPSK	1	104	18.74	18.93	18.71			
20	QPSK	50	0	18.85	18.90	18.66	20.1	0.0	
20	QPSK	50	28	18.53	18.91	18.82	20.1	0.0	
20	QPSK	50	58	18.63	18.89	18.67			
20	QPSK	100	0	18.46	18.90	18.74	20.1	0.0	
20	16QAM	1	1	18.73	18.67	18.63	20.1	0.0	
20	16QAM	1	1	18.76	18.79	18.91	20.1	0.0	
20	256QAM	1	1	18.77	18.76	18.87	20.1	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	18.81	18.77	18.60	20.1	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1890	1905			
10	QPSK	1	1	18.67	18.70	18.57	20.1	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	18.68	18.80	18.64	20.1	0.0	

n7 Other PA Ant3 DSI5 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	21.04	21.14	20.95			
40	PI2 BPSK	1	108	21.01	20.99	21.11	22.3	0.0	
40	PI2 BPSK	1	214	20.94	21.07	21.09			
40	PI2 BPSK	108	0	21.05	21.01	21.14	22.3	0.0	
40	PI2 BPSK	108	54	20.89	21.15	20.93	22.3	0.0	
40	PI2 BPSK	108	108	21.02	20.99	21.00			
40	PI2 BPSK	216	0	21.11	20.97	21.09			
40	QPSK	1	1	21.05	21.18	21.12			
40	QPSK	1	108	21.02	20.96	20.95	22.3	0.0	
40	QPSK	1	214	20.92	21.08	21.11			
40	QPSK	108	0	20.90	21.06	21.06	22.3	0.0	
40	QPSK	108	54	20.91	21.16	21.14	22.3	0.0	
40	QPSK	108	108	21.09	21.06	21.05			
40	QPSK	216	0	21.10	21.15	20.97	22.3	0.0	
40	16QAM	1	1	20.93	21.00	21.14	22.3	0.0	
40	16QAM	1	1	21.08	21.14	20.99	22.3	0.0	
40	256QAM	1	1	20.02	20.07	19.83	21.3	1.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	20.94	21.11	21.08	22.3	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	20.91	21.04	20.91	22.3	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	20.90	21.10	20.95	22.3	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.89	20.99	21.12	22.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.89	21.07	20.89	22.3	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.96	20.96	21.04	22.3	0.0	

n66 Other PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	22.01	22.14	22.10			
40	PI2 BPSK	1	108	21.98	22.02	21.97	23.0	0.0	
40	PI2 BPSK	1	214	21.82	22.01	21.81			
40	PI2 BPSK	108	0	22.09	22.12	22.14	23.0	0.0	
40	PI2 BPSK	108	54	22.05	22.06	21.88	23.0	0.0	
40	PI2 BPSK	108	108	21.87	22.05	22.00			
40	PI2 BPSK	216	0	21.98	22.08	22.09			
40	QPSK	1	1	22.04	22.16	22.01			
40	QPSK	1	108	21.83	21.90	21.71	23.0	0.0	
40	QPSK	1	214	21.86	22.03	21.86			
40	QPSK	108	0	21.90	22.11	21.97	23.0	0.0	
40	QPSK	108	54	21.81	21.98	21.93	23.0	0.0	
40	QPSK	108	108	21.85	22.07	21.95			
40	QPSK	216	0	21.97	22.13	21.91	23.0	0.0	
40	16QAM	1	1	21.80	21.78	21.89	23.0	0.0	
40	16QAM	1	1	20.87	20.89	20.63	22.0	1.0	
40	256QAM	1	1	19.00	18.99	19.00	20.0	3.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.95	22.04	22.02	23.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.09	22.15	21.81	23.0	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.97	22.00	22.02	23.0	0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.92	22.08	21.97	23.0	0.0	
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.88	22.11	21.99	23.0	0.0	



n38 Other PA Ant3 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519300	519396		
Frequency (MHz)				2590.02	2595	2599.98		
40	Pl/2 BPSK	1	1	20.65	20.88	20.72		
40	Pl/2 BPSK	1	53	20.83	20.98	20.83	22.2	0.0
40	Pl/2 BPSK	1	104	20.89	20.78	21.01		
40	Pl/2 BPSK	50	0	20.82	20.83	20.86	22.2	0.0
40	Pl/2 BPSK	50	28	20.85	20.83	20.85	22.2	0.0
40	Pl/2 BPSK	50	56	20.83	20.71	20.88	22.2	0.0
40	Pl/2 BPSK	100	0	20.67	21.01	20.72		
40	QPSK	1	1	20.88	21.14	21.00		
40	QPSK	1	53	20.76	20.91	20.83	22.2	0.0
40	QPSK	1	104	20.82	20.82	21.00		
40	QPSK	50	0	20.99	21.08	20.80	22.2	0.0
40	QPSK	50	28	20.79	20.84	20.88	22.2	0.0
40	QPSK	80	56	20.71	20.81	20.93	22.2	0.0
40	QPSK	100	0	20.50	21.05	20.89		
40	16QAM	1	1	20.80	20.99	21.03	22.2	0.0
40	16QAM	1	1	20.69	20.95	20.94	22.2	0.0
40	256QAM	1	1	18.12	18.21	18.16	19.7	2.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.62	20.80	20.98	22.2	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2570	2595	2610		
20	QPSK	1	1	20.76	20.87	20.86	22.2	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR
Frequency (MHz)				2677.51	2595	2612.49		
15	QPSK	1	1	20.73	20.90	20.82	22.2	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2676.02	2595	2614.98		
10	QPSK	1	1	20.67	20.78	20.90	22.2	0.0

n41 Other PA Ant3 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl/2 BPSK	1	1	20.81	20.96	20.96		
100	Pl/2 BPSK	1	137	20.90	20.82	20.74	22.2	0.0
100	Pl/2 BPSK	1	271	20.81	20.98	20.82		
100	Pl/2 BPSK	135	0	20.82	20.99	20.81	22.2	0.0
100	Pl/2 BPSK	135	69	20.91	20.95	20.89	22.2	0.0
100	Pl/2 BPSK	135	138	20.97	21.07	20.84	22.2	0.0
100	Pl/2 BPSK	270	0	21.02	21.02	20.82		
100	QPSK	1	1	21.07	21.12	20.92		
100	QPSK	1	137	20.89	20.82	20.74	22.2	0.0
100	QPSK	1	271	20.94	20.78	21.00		
100	QPSK	135	0	20.85	20.98	20.79	22.2	0.0
100	QPSK	135	69	20.93	21.07	20.83	22.2	0.0
100	QPSK	185	138	20.97	20.83	20.77	22.2	0.0
100	QPSK	270	0	20.86	21.05	20.77		
100	16QAM	1	1	20.89	20.92	20.85	22.2	0.0
100	16QAM	1	1	20.98	21.01	20.79	22.2	0.0
100	256QAM	1	1	20.61	20.69	20.57	21.7	0.5
Channel				526200	518998	529198	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.96	20.89	20.80	22.2	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2538.02	2592.99	2642.99		
80	QPSK	1	1	20.85	21.10	20.73	22.2	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.86	20.89	20.84	22.2	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	20.85	21.07	20.86	22.2	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.89	21.04	20.79	22.2	0.0
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.97	21.07	20.83	22.2	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	20.85	21.01	20.85	22.2	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.01	20.90	20.80	22.2	0.0





n2 Other PA Ant0 DSI5									
BW (MHz)	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)				37000	37000	38000			
				1860	1860	1900			
20	PI2 BPSK	1	1	20.47	20.59	20.32			
20	PI2 BPSK	1	53	20.59	20.48	20.43	22.1	0.0	
20	PI2 BPSK	1	104	20.58	20.43	20.32			
20	PI2 BPSK	50	0	20.56	20.46	20.48	22.1	0.0	
20	PI2 BPSK	50	28	20.56	20.42	20.48	22.1	0.0	
20	PI2 BPSK	50	56	20.47	20.42	20.43			
20	PI2 BPSK	100	0	20.43	20.49	20.49	22.1	0.0	
20	QPSK	1	1	20.60	20.61	20.52			
20	QPSK	1	53	20.45	20.51	20.32	22.1	0.0	
20	QPSK	1	104	20.55	20.60	20.31			
20	QPSK	50	0	20.51	20.47	20.44	22.1	0.0	
20	QPSK	50	28	20.57	20.59	20.38	22.1	0.0	
20	QPSK	50	56	20.49	20.49	20.34			
20	QPSK	100	0	20.53	20.56	20.36			
20	16QAM	1	1	20.57	20.55	20.51	22.1	0.0	
20	64QAM	1	1	20.58	20.52	20.53	22.1	0.0	
20	256QAM	1	1	20.50	20.43	20.43	22.1	0.0	
Channel									
Frequency (MHz)				37100	37600	38000	Tune-up limit (dBm)	MPR (dB)	
				1821.5	1860	1902.5			
15	QPSK	1	1	20.50	20.56	20.41	22.1	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
				1855	1860	1905			
10	QPSK	1	1	20.58	20.48	20.38	22.1	0.0	
Channel									
Frequency (MHz)				37250	37600	38100	Tune-up limit (dBm)	MPR (dB)	
				1852.5	1860	1907.5			
5	QPSK	1	1	20.45	20.47	20.39	22.1	0.0	

Reduced Power Mode for Other PA DSI5									
n7 Other PA Ant0 DSI5									
BW (MHz)	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)				52000	52000	53000			
				2520	2535	2550			
40	PI2 BPSK	1	1	18.31	18.60	18.36			
40	PI2 BPSK	1	108	18.38	18.46	18.39	20.0	0.0	
40	PI2 BPSK	1	214	18.29	18.48	18.34			
40	PI2 BPSK	108	0	18.24	18.56	18.42	20.0	0.0	
40	PI2 BPSK	108	54	18.26	18.44	18.54	20.0	0.0	
40	PI2 BPSK	108	108	18.33	18.49	18.52			
40	PI2 BPSK	216	0	18.31	18.40	18.49	20.0	0.0	
40	QPSK	1	1	18.40	18.61	18.54			
40	QPSK	1	108	18.26	18.55	18.41	20.0	0.0	
40	QPSK	1	214	18.41	18.53	18.38			
40	QPSK	108	0	18.32	18.55	18.46	20.0	0.0	
40	QPSK	108	54	18.29	18.60	18.34	20.0	0.0	
40	QPSK	108	108	18.21	18.49	18.56	20.0	0.0	
40	QPSK	216	0	18.40	18.58	18.36			
40	16QAM	1	1	18.39	18.40	18.41	20.0	0.0	
40	64QAM	1	1	18.38	18.55	18.41	20.0	0.0	
40	256QAM	1	1	18.26	18.43	18.54	20.0	0.0	
Channel									
Frequency (MHz)				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
				2515	2535	2555			
30	QPSK	1	1	18.31	18.50	18.37	20.0	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
				2512.5	2535	2557.5			
25	QPSK	1	1	18.42	18.47	18.43	20.0	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
				2510	2535	2550			
20	PI2 BPSK	1	1	18.40	18.44	18.50	20.0	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
				2507.5	2535	2562.5			
15	QPSK	1	1	18.40	18.55	18.48	20.0	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
				2505	2535	2565			
10	QPSK	1	1	18.21	18.41	18.49	20.0	0.0	
Channel									
Frequency (MHz)				503500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
				2502.5	2535	2567.5			
5	QPSK	1	1	18.38	18.54	18.47	20.0	0.0	

n66 Other PA Ant0 DSI5									
BW (MHz)	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)				345000	345000	350000			
				1730	1745	1760			
40	PI2 BPSK	1	1	19.45	19.52	19.44			
40	PI2 BPSK	1	108	19.39	19.60	19.35	20.8	0.0	
40	PI2 BPSK	1	214	19.38	19.49	19.27			
40	PI2 BPSK	108	0	19.46	19.52	19.39	20.8	0.0	
40	PI2 BPSK	108	54	19.54	19.59	19.41	20.8	0.0	
40	PI2 BPSK	108	108	19.43	19.65	19.48			
40	PI2 BPSK	216	0	19.52	19.61	19.37	20.8	0.0	
40	QPSK	1	1	19.52	19.67	19.47			
40	QPSK	1	108	19.49	19.62	19.37	20.8	0.0	
40	QPSK	1	214	19.44	19.60	19.47			
40	QPSK	108	0	19.43	19.60	19.39	20.8	0.0	
40	QPSK	108	54	19.38	19.65	19.32	20.8	0.0	
40	QPSK	108	108	19.45	19.64	19.45	20.8	0.0	
40	QPSK	216	0	19.35	19.55	19.29			
40	16QAM	1	1	19.45	19.59	19.27	20.8	0.0	
40	64QAM	1	1	19.35	19.64	19.31	20.8	0.0	
40	256QAM	1	1	19.51	19.47	19.37	20.8	0.0	
Channel									
Frequency (MHz)				345000	345000	350000	Tune-up limit (dBm)	MPR (dB)	
				1725	1745	1765			
30	QPSK	1	1	19.40	19.57	19.35	20.8	0.0	
Channel									
Frequency (MHz)				344000	345000	354000	Tune-up limit (dBm)	MPR (dB)	
				1720	1745	1770			
20	QPSK	1	1	19.35	19.47	19.20	20.8	0.0	
Channel									
Frequency (MHz)				343500	345000	355000	Tune-up limit (dBm)	MPR (dB)	
				1717.5	1745	1772.5			
15	QPSK	1	1	19.44	19.66	19.43	20.8	0.0	
Channel									
Frequency (MHz)				343000	345000	355000	Tune-up limit (dBm)	MPR (dB)	
				1715	1745	1772			
10	QPSK	1	1	19.45	19.48	19.46	20.8	0.0	
Channel									
Frequency (MHz)				342500	345000	355500	Tune-up limit (dBm)	MPR (dB)	
				1712.5	1745	1777.5			
5	QPSK	1	1	19.51	19.56	19.42	20.8	0.0	



n38 Other PA Ant0 DSIS							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	18.69	18.84	18.77	
40	PI/2 BPSK	1	53	18.72	18.52	18.74	19.8
40	PI/2 BPSK	1	104	18.84	18.78	18.78	
40	PI/2 BPSK	50	0	18.68	18.75	18.65	19.8
40	PI/2 BPSK	50	28	18.63	18.76	18.75	19.8
40	PI/2 BPSK	50	56	18.63	18.76	18.81	19.8
40	PI/2 BPSK	100	0	18.73	18.84	18.67	
40	QPSK	1	1	18.72	18.94	18.83	
40	QPSK	1	53	18.62	18.74	18.76	19.8
40	QPSK	1	104	18.73	18.85	18.64	
40	QPSK	50	0	18.69	18.83	18.81	19.8
40	QPSK	50	28	18.70	18.90	18.80	19.8
40	QPSK	80	56	18.51	18.73	18.67	19.8
40	QPSK	100	0	18.72	18.82	18.69	
40	16QAM	1	1	18.69	18.86	18.64	19.8
40	16QAM	1	1	18.51	18.67	18.71	19.8
40	256QAM	1	1	18.71	18.84	18.66	19.8
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	18.63	18.80	18.80	19.8
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	18.60	18.74	18.85	19.8
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	18.65	18.82	18.83	19.8
Channel				515004	519000	522998	
Frequency (MHz)				2574.02	2595	2614.98	
10	QPSK	1	1	18.51	18.83	18.76	19.8

n41 Other PA Ant0 DSIS							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				509200	518998	529000	
100	PI/2 BPSK	1	1	18.47	18.80	18.46	
100	PI/2 BPSK	1	137	18.34	18.93	18.29	19.8
100	PI/2 BPSK	1	271	18.30	18.91	18.40	
100	PI/2 BPSK	135	0	18.34	18.84	18.35	19.8
100	PI/2 BPSK	135	69	18.32	18.90	18.43	19.8
100	PI/2 BPSK	135	138	18.49	18.84	18.48	19.8
100	PI/2 BPSK	270	0	18.33	18.93	18.41	
100	QPSK	1	1	18.50	18.98	18.49	
100	QPSK	1	137	18.42	18.88	18.40	19.8
100	QPSK	1	271	18.40	18.92	18.40	
100	QPSK	135	0	18.51	18.88	18.48	19.8
100	QPSK	135	69	18.46	18.94	18.51	19.8
100	QPSK	135	138	18.48	18.90	18.37	19.8
100	QPSK	270	0	18.38	18.90	18.42	19.8
100	16QAM	1	1	18.51	18.75	18.49	19.8
100	16QAM	1	1	18.41	18.63	18.37	19.8
100	256QAM	1	1	18.35	18.77	18.29	19.8
Channel				509200	518998	529000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	18.46	18.84	18.31	19.8
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	18.33	18.93	18.44	19.8
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	18.35	18.91	18.37	19.8
Channel				505200	518998	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	18.33	18.90	18.50	19.8
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	18.41	18.78	18.42	19.8
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	18.32	18.80	18.32	19.8
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	18.42	18.93	18.27	19.8
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	18.32	18.88	18.32	19.8



### n2 Other PA Ant1 DSI5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	16.53	16.71	16.53		
20	PI2 BPSK	1	53	16.55	16.65	16.43	17.6	0.0
20	PI2 BPSK	1	104	16.42	16.66	16.49	17.6	0.0
20	PI2 BPSK	50	0	16.50	16.61	16.49	17.6	0.0
20	PI2 BPSK	50	28	16.38	16.71	16.61	17.6	0.0
20	PI2 BPSK	50	58	16.47	16.67	16.54	17.6	0.0
20	PI2 BPSK	100	0	16.37	16.66	16.58	17.6	0.0
20	QPSK	1	1	16.55	16.72	16.60		
20	QPSK	1	53	16.34	16.52	16.60	17.6	0.0
20	QPSK	1	104	16.44	16.55	16.55		
20	QPSK	50	0	16.50	16.66	16.60	17.6	0.0
20	QPSK	50	28	16.35	16.70	16.59	17.6	0.0
20	QPSK	50	58	16.56	16.58	16.42	17.6	0.0
20	QPSK	100	0	16.55	16.67	16.53	17.6	0.0
20	16QAM	1	1	16.53	16.58	16.51	17.6	0.0
20	64QAM	1	1	16.39	16.54	16.38	17.6	0.0
20	256QAM	1	1	16.40	16.51	16.54	17.6	0.0
Channel								
Frequency (MHz)				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.46	16.60	16.44	17.6	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.55	16.60	16.45	17.6	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.55	16.80	16.61	17.6	0.0

### n7 Other PA Ant1 DSI5

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	18.55	18.64	18.73		
40	PI2 BPSK	1	108	18.60	18.65	18.74	19.9	0.0
40	PI2 BPSK	1	214	18.56	18.77	18.73	19.9	0.0
40	PI2 BPSK	108	0	18.67	18.71	18.76	19.9	0.0
40	PI2 BPSK	108	54	18.73	18.69	18.71	19.9	0.0
40	PI2 BPSK	108	108	18.76	18.74	18.78	19.9	0.0
40	PI2 BPSK	216	0	18.74	18.65	18.82	19.9	0.0
40	QPSK	1	1	18.77	18.85	18.90		
40	QPSK	1	108	18.55	18.84	18.71	19.9	0.0
40	QPSK	1	214	18.68	18.72	18.77	19.9	0.0
40	QPSK	108	0	18.70	18.73	18.80	19.9	0.0
40	QPSK	108	54	18.64	18.83	18.68	19.9	0.0
40	QPSK	108	108	18.61	18.80	18.70	19.9	0.0
40	QPSK	216	0	18.76	18.80	18.77	19.9	0.0
40	16QAM	1	1	18.64	18.66	18.79	19.9	0.0
40	64QAM	1	1	18.70	18.78	18.84	19.9	0.0
40	256QAM	1	1	18.67	18.80	18.83	19.9	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.78	18.64	18.80	19.9	0.0
Channel								
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.75	18.76	18.84	19.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	18.72	18.83	18.80	19.9	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.68	18.80	18.80	19.9	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.72	18.78	18.80	19.9	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.62	18.83	18.72	19.9	0.0

### n66 Other PA Ant1 DSI5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	17.15	17.50	17.30		
40	PI2 BPSK	1	108	17.19	17.37	17.59	18.3	0.0
40	PI2 BPSK	1	214	17.33	17.50	17.29	18.3	0.0
40	PI2 BPSK	108	0	17.21	17.38	17.30	18.3	0.0
40	PI2 BPSK	108	54	17.34	17.45	17.31	18.3	0.0
40	PI2 BPSK	108	108	17.35	17.49	17.31	18.3	0.0
40	PI2 BPSK	216	0	17.20	17.47	17.19	18.3	0.0
40	QPSK	1	1	17.36	17.51	17.31		
40	QPSK	1	108	17.38	17.36	17.17	18.3	0.0
40	QPSK	1	214	17.30	17.31	17.20	18.3	0.0
40	QPSK	108	0	17.14	17.46	17.14	18.3	0.0
40	QPSK	108	54	17.34	17.48	17.32	18.3	0.0
40	QPSK	108	108	17.33	17.40	17.28	18.3	0.0
40	QPSK	216	0	17.15	17.35	17.28	18.3	0.0
40	16QAM	1	1	17.22	17.42	17.30	18.3	0.0
40	64QAM	1	1	17.38	17.40	17.13	18.3	0.0
40	256QAM	1	1	17.21	17.44	17.19	18.3	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.19	17.47	17.27	18.3	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.23	17.42	17.23	18.3	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.21	17.45	17.29	18.3	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.16	17.38	17.12	18.3	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.19	17.47	17.13	18.3	0.0



n38 Other PA Ant1 DSIS							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	20.34	20.62	20.38	
40	PI/2 BPSK	1	53	20.41	20.52	20.22	21.6
40	PI/2 BPSK	1	104	20.49	20.60	20.41	
40	PI/2 BPSK	50	0	20.47	20.50	20.23	21.6
40	PI/2 BPSK	50	28	20.43	20.54	20.24	21.6
40	PI/2 BPSK	50	56	20.39	20.60	20.23	21.6
40	PI/2 BPSK	100	0	20.47	20.61	20.40	
40	QPSK	1	1	20.58	20.68	20.42	
40	QPSK	1	53	20.47	20.58	20.33	21.6
40	QPSK	1	104	20.44	20.51	20.25	
40	QPSK	50	0	20.57	20.57	20.35	21.6
40	QPSK	50	28	20.48	20.59	20.23	21.6
40	QPSK	50	56	20.49	20.54	20.38	21.6
40	QPSK	100	0	20.47	20.52	20.33	
40	16QAM	1	1	20.50	20.60	20.24	21.6
40	16QAM	1	1	20.04	20.23	20.05	21.1
40	256QAM	1	1	18.11	18.28	18.25	19.1
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	20.48	20.54	20.23	21.6
Channel				516000	519000	522000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	20.35	20.07	20.26	21.6
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	20.53	20.60	20.40	21.6
Channel				515004	519000	522998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	20.55	20.59	20.43	21.6

n41 Other PA Ant1 DSIS							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				509200	518998	529000	
100	PI/2 BPSK	1	1	20.48	20.77	20.48	
100	PI/2 BPSK	1	137	20.61	20.61	20.43	21.6
100	PI/2 BPSK	1	271	20.52	20.78	20.40	
100	PI/2 BPSK	135	0	20.49	20.62	20.37	21.6
100	PI/2 BPSK	135	69	20.51	20.60	20.45	21.6
100	PI/2 BPSK	135	138	20.49	20.81	20.43	21.6
100	PI/2 BPSK	270	0	20.59	20.68	20.49	
100	QPSK	1	1	20.62	20.62	20.57	
100	QPSK	1	137	20.52	20.61	20.38	21.6
100	QPSK	1	271	20.42	20.62	20.43	
100	QPSK	135	0	20.48	20.74	20.59	21.6
100	QPSK	135	69	20.52	20.60	20.38	21.6
100	QPSK	135	138	20.61	20.60	20.37	21.6
100	QPSK	270	0	20.50	20.61	20.51	
100	16QAM	1	1	20.56	20.68	20.49	21.6
100	16QAM	1	1	20.54	20.77	20.54	21.6
100	256QAM	1	1	19.71	19.98	19.98	21.1
Channel				509200	518998	529000	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	20.40	20.61	20.55	21.6
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	20.40	20.64	20.48	21.6
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	20.59	20.70	20.44	21.6
Channel				505200	518998	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	20.50	20.66	20.45	21.6
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	20.48	20.61	20.38	21.6
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	20.58	20.78	20.38	21.6
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	20.54	20.77	20.59	21.6
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	20.56	20.62	20.47	21.6



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	64QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel								
Frequency (MHz)				37350	37600	38050	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				1025	930	1505		
10	QPSK	1	1	21.26	21.29	21.14	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2 DSI5

BW (MHz)	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)				50400	50700	51000		
40	PI2 BPSK	1	1	19.65	19.52	19.59		
40	PI2 BPSK	1	108	19.54	19.59	19.55	20.5	0.0
40	PI2 BPSK	1	216	19.53	19.59	19.55	20.5	0.0
40	PI2 BPSK	108	0	19.56	19.84	19.54	20.5	0.0
40	PI2 BPSK	108	54	19.58	19.63	19.60	20.5	0.0
40	PI2 BPSK	108	108	19.57	19.81	19.63	20.5	0.0
40	PI2 BPSK	216	0	19.62	19.54	19.51		
40	QPSK	1	1	19.67	19.65	19.58		
40	QPSK	1	108	19.55	19.51	19.56	20.5	0.0
40	QPSK	1	216	19.63	19.59	19.55		
40	QPSK	108	0	19.64	19.55	19.52	20.5	0.0
40	QPSK	108	54	19.63	19.59	19.54	20.5	0.0
40	QPSK	108	108	19.54	19.51	19.54	20.5	0.0
40	QPSK	216	0	19.54	19.57	19.51		
40	16QAM	1	1	19.51	19.54	19.53	20.5	0.0
40	64QAM	1	1	19.69	19.55	19.54	20.5	0.0
40	256QAM	1	1	19.62	19.54	19.58	20.5	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	19.25	19.53	19.41	20.5	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	19.39	19.51	19.40	20.5	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	19.69	19.55	19.54	20.5	0.0
Channel								
Frequency (MHz)				501600	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	19.67	19.53	19.56	20.5	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	19.60	19.59	19.59	20.5	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	19.54	19.58	19.54	20.5	0.0

### n66 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.12	21.18	21.11		
40	PI2 BPSK	1	108	21.03	21.19	21.04	23.0	0.0
40	PI2 BPSK	1	216	21.08	21.15	21.04	23.0	0.0
40	PI2 BPSK	108	0	21.11	21.13	21.07	23.0	0.0
40	PI2 BPSK	108	54	21.01	21.13	21.06	23.0	0.0
40	PI2 BPSK	108	108	21.03	21.15	21.08	23.0	0.0
40	PI2 BPSK	216	0	21.06	21.13	21.08		
40	QPSK	1	1	21.17	21.23	21.13		
40	QPSK	1	108	21.10	21.14	21.12	23.0	0.0
40	QPSK	1	216	21.22	21.22	21.03		
40	QPSK	108	0	21.03	21.15	21.06	23.0	0.0
40	QPSK	108	54	21.15	21.17	21.16	23.0	0.0
40	QPSK	108	108	21.10	21.14	21.08	23.0	0.0
40	QPSK	216	0	21.13	21.15	21.14		
40	16QAM	1	1	21.13	21.16	21.04	23.0	0.0
40	64QAM	1	1	20.25	20.24	20.05	22.0	1.0
40	256QAM	1	1	18.02	18.23	18.12	20.0	3.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	21.11	21.21	21.10	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	21.14	21.18	21.01	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	349000	Tune-up limit (dBm)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	21.07	21.21	21.13	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	21.14	21.08	21.08	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	350500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	21.02	21.12	21.05	23.0	0.0



n38 Other PA Ant2 DSIS							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	19.60	19.63	19.64	
40	PI/2 BPSK	1	53	19.67	19.67	19.66	21.1
40	PI/2 BPSK	1	104	19.58	19.72	19.64	
40	PI/2 BPSK	50	0	19.47	19.68	19.72	21.1
40	PI/2 BPSK	50	28	19.46	19.56	19.53	21.1
40	PI/2 BPSK	50	56	19.59	19.65	19.65	21.1
40	PI/2 BPSK	100	0	19.52	19.54	19.55	
40	QPSK	1	1	19.62	19.73	19.71	
40	QPSK	1	53	19.60	19.69	19.59	21.1
40	QPSK	1	104	19.61	19.64	19.62	
40	QPSK	50	0	19.62	19.72	19.60	21.1
40	QPSK	50	28	19.50	19.67	19.56	21.1
40	QPSK	80	56	19.62	19.69	19.71	21.1
40	QPSK	100	0	19.53	19.60	19.51	
40	16QAM	1	1	19.58	19.70	19.60	21.1
40	16QAM	1	1	19.47	19.62	19.63	21.1
40	256QAM	1	1	18.23	18.15	17.99	1.5
Channel				2585.01	2595	2604.99	
Frequency (MHz)				517002	517000	520998	
30	QPSK	1	1	19.62	19.72	19.58	21.1
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	19.44	19.65	19.53	21.1
Channel				515502	519000	520498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	19.58	19.63	19.52	21.1
Channel				515004	519000	520998	
Frequency (MHz)				2678.02	2595	2614.98	
10	QPSK	1	1	19.48	19.56	19.60	21.1

n41 Other PA Ant2 DSIS							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				524601	518998	529000	
100	PI/2 BPSK	1	1	19.87	20.06	19.79	
100	PI/2 BPSK	1	137	19.90	20.06	19.82	21.1
100	PI/2 BPSK	1	271	19.73	20.08	19.94	
100	PI/2 BPSK	135	0	19.79	20.03	19.86	21.1
100	PI/2 BPSK	135	69	19.83	19.95	19.78	21.1
100	PI/2 BPSK	135	138	19.91	19.97	19.76	21.1
100	PI/2 BPSK	270	0	19.86	20.05	19.84	
100	QPSK	1	1	19.91	20.09	19.95	
100	QPSK	1	137	19.77	19.94	19.86	21.1
100	QPSK	1	271	19.91	20.05	19.85	
100	QPSK	135	0	19.73	20.05	19.77	21.1
100	QPSK	135	69	19.73	19.89	19.82	21.1
100	QPSK	135	138	19.80	19.85	19.83	21.1
100	QPSK	270	0	19.81	20.00	19.82	
100	16QAM	1	1	19.88	19.95	19.74	21.1
100	16QAM	1	1	19.81	19.95	19.85	21.1
100	256QAM	1	1	19.77	20.06	19.83	21.1
Channel				506000	518998	529998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	19.74	20.02	19.92	21.1
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2640.99	
80	QPSK	1	1	19.74	20.03	19.76	21.1
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.89	19.94	19.84	21.1
Channel				505200	518998	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	19.83	19.93	19.90	21.1
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	19.73	19.89	19.93	21.1
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.82	20.08	19.86	21.1
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.80	19.90	19.87	21.1
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.87	19.98	19.86	21.1



### n2 Other PA Ant3 DSI5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				370000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	19.82	19.91	19.62		
20	PI2 BPSK	1	53	19.84	19.86	19.79	21.1	0.0
20	PI2 BPSK	1	104	19.74	19.79	19.88		
20	PI2 BPSK	50	0	19.83	19.82	19.70	21.1	0.0
20	PI2 BPSK	50	28	19.69	19.84	19.69	21.1	0.0
20	PI2 BPSK	50	58	19.74	19.89	19.68	21.1	0.0
20	PI2 BPSK	100	0	19.75	19.87	19.77		
20	QPSK	1	1	19.82	19.95	19.84		
20	QPSK	1	53	19.82	19.73	19.83	21.1	0.0
20	QPSK	1	104	19.79	19.88	19.82		
20	QPSK	50	0	19.80	19.88	19.82	21.1	0.0
20	QPSK	50	28	19.61	19.90	19.82	21.1	0.0
20	QPSK	50	58	19.85	19.88	19.88		
20	QPSK	100	0	19.83	19.85	19.72	21.1	0.0
20	16QAM	1	1	19.69	19.83	19.69	21.1	0.0
20	16QAM	1	1	19.77	19.89	19.84	21.1	0.0
20	256QAM	1	1	19.19	19.24	19.09	20.6	0.5
Channel				371500	376000	380500		
Frequency (MHz)				1867.5	1860	1902.5		
15	QPSK	1	1	19.67	19.91	19.65	21.1	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	19.66	19.89	19.79	21.1	0.0
Channel				375500	376000	381500		
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	19.76	19.73	19.83	21.1	0.0

### n7 Other PA Ant3 DSI5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				500000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	21.99	22.12	22.04		
40	PI2 BPSK	1	108	21.90	21.95	22.13	23.3	0.0
40	PI2 BPSK	1	214	22.10	21.99	21.98		
40	PI2 BPSK	108	0	21.92	22.09	22.10	23.3	0.0
40	PI2 BPSK	108	54	21.92	21.94	21.99	23.3	0.0
40	PI2 BPSK	108	108	21.98	21.94	21.98	23.3	0.0
40	PI2 BPSK	216	0	21.99	22.02	22.13		
40	QPSK	1	1	22.10	22.16	22.13		
40	QPSK	1	108	22.10	21.95	21.98	23.3	0.0
40	QPSK	1	214	22.01	21.98	22.06		
40	QPSK	108	0	22.04	22.14	21.95	23.3	0.0
40	QPSK	108	54	22.10	21.99	22.12	23.3	0.0
40	QPSK	108	108	22.01	22.13	22.07	23.3	0.0
40	QPSK	216	0	21.98	22.00	21.99		
40	16QAM	1	1	22.02	22.08	22.08	23.3	0.0
40	16QAM	1	1	21.58	21.87	21.59	22.8	0.5
40	256QAM	1	1	20.02	20.07	19.83	21.3	2.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.11	22.01	22.08	23.3	0.0
Channel				502000	507000	511500		
Frequency (MHz)				2512.5	2535	2577.5		
25	QPSK	1	1	21.98	22.13	21.90	23.3	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	22.02	22.01	22.12	23.3	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2567.5		
15	QPSK	1	1	22.02	22.09	22.05	23.3	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.09	22.14	22.12	23.3	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.02	22.13	22.06	23.3	0.0

### n66 Other PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	353000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.01	22.14	22.10		
40	PI2 BPSK	1	108	21.98	22.02	21.97	23.0	0.0
40	PI2 BPSK	1	214	21.82	22.01	21.81		
40	PI2 BPSK	108	0	22.09	22.12	22.14	23.0	0.0
40	PI2 BPSK	108	54	22.05	22.06	21.88	23.0	0.0
40	PI2 BPSK	108	108	21.87	22.05	22.00	23.0	0.0
40	PI2 BPSK	216	0	21.98	22.08	22.09		
40	QPSK	1	1	22.04	22.16	22.01		
40	QPSK	1	108	21.83	21.90	21.71	23.0	0.0
40	QPSK	1	214	21.86	22.03	21.86		
40	QPSK	108	0	21.90	22.11	21.97	23.0	0.0
40	QPSK	108	54	21.81	21.98	21.93	23.0	0.0
40	QPSK	108	108	21.85	22.07	21.96	23.0	0.0
40	QPSK	216	0	21.97	22.13	21.91		
40	16QAM	1	1	21.80	21.78	21.89	23.0	0.0
40	16QAM	1	1	20.87	20.86	20.63	22.0	1.0
40	256QAM	1	1	19.00	18.99	19.00	20.0	3.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.95	22.04	22.02	23.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.08	22.15	21.81	23.0	0.0
Channel				343000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.97	22.00	22.02	23.0	0.0
Channel				342000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.92	22.08	21.97	23.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.88	22.11	21.99	23.0	0.0



n38 Other PA Ant3 DSIS								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519300	519396		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	21.81	22.01	21.88		
40	PI/2 BPSK	1	53	21.78	22.03	21.94	23.2	0.0
40	PI/2 BPSK	1	104	21.92	21.94	21.97		
40	PI/2 BPSK	50	0	21.83	22.00	21.88	23.2	0.0
40	PI/2 BPSK	50	28	21.79	21.94	21.82	23.2	0.0
40	PI/2 BPSK	50	56	21.75	21.88	21.94	23.2	0.0
40	PI/2 BPSK	100	0	21.81	21.94	21.85		
40	QPSK	1	1	21.95	22.08	21.99		
40	QPSK	1	53	21.82	22.08	21.95	23.2	0.0
40	QPSK	1	104	21.74	21.89	21.94		
40	QPSK	50	0	21.93	22.08	21.93	23.2	0.0
40	QPSK	50	28	21.87	22.05	21.94	23.2	0.0
40	QPSK	80	56	21.78	21.98	21.99	23.2	0.0
40	QPSK	100	0	21.84	21.91	21.87		
40	16QAM	1	1	21.84	21.93	21.98	23.2	0.0
40	64QAM	1	1	20.38	20.53	20.27	21.7	1.5
40	256QAM	1	1	18.30	18.49	18.25	19.7	3.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	21.79	21.90	21.87	23.2	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	21.77	22.04	21.89	23.2	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2677.51	2595	2612.49		
15	QPSK	1	1	21.78	21.89	21.99	23.2	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2675.02	2595	2614.98		
10	QPSK	1	1	21.84	21.98	21.87	23.2	0.0

n41 Other PA Ant3 DSIS								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				526202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.95	21.90	21.93		
100	PI/2 BPSK	1	137	21.89	21.94	21.80	23.2	0.0
100	PI/2 BPSK	1	271	21.94	22.05	21.80		
100	PI/2 BPSK	135	0	21.94	22.08	21.83	23.2	0.0
100	PI/2 BPSK	135	69	21.86	21.97	21.92	23.2	0.0
100	PI/2 BPSK	135	138	21.93	22.00	21.78	23.2	0.0
100	PI/2 BPSK	270	0	21.97	22.08	21.82		
100	QPSK	1	1	22.04	22.10	21.96		
100	QPSK	1	137	22.05	22.08	21.89	23.2	0.0
100	QPSK	1	271	22.00	21.91	21.95		
100	QPSK	135	0	21.87	22.08	21.77	23.2	0.0
100	QPSK	135	69	22.03	21.92	21.78	23.2	0.0
100	QPSK	135	138	21.98	22.05	21.79	23.2	0.0
100	QPSK	270	0	21.90	22.08	21.78		
100	16QAM	1	1	21.89	22.00	21.86	23.2	0.0
100	64QAM	1	1	21.95	22.02	21.89	23.2	0.0
100	256QAM	1	1	20.54	20.60	20.38	21.7	1.5
Channel				526200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.99		
90	QPSK	1	1	21.86	22.04	21.79	23.2	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	22.02	22.10	21.87	23.2	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.85	22.08	21.93	23.2	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	21.97	22.04	21.85	23.2	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.85	21.99	21.96	23.2	0.0
Channel				503202	518998	533900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.88	22.11	21.79	23.2	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	21.95	22.03	21.94	23.2	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.03	21.98	21.78	23.2	0.0





Reduced Power Mode for Other PA DSI6

n2 Other PA Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midst Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	23.44	23.56	23.54	24.8	0.0
20	PI2 BPSK	1	53	23.48	23.60	23.52		
20	PI2 BPSK	1	104	23.50	23.54	23.36		
20	PI2 BPSK	50	0	23.76	23.91	23.78	24.8	0.0
20	PI2 BPSK	50	28	23.89	23.93	23.77	24.8	0.0
20	PI2 BPSK	50	56	23.69	23.87	23.73	24.8	0.0
20	PI2 BPSK	100	0	23.79	23.96	23.86		
20	QPSK	1	1	23.98	24.04	23.95		
20	QPSK	1	53	23.98	23.99	23.89	24.8	0.0
20	QPSK	1	104	23.90	23.95	23.74		
20	QPSK	50	0	23.82	23.92	23.80	24.8	0.0
20	QPSK	50	28	23.87	23.95	23.82	24.8	0.0
20	QPSK	50	56	23.86	23.92	23.72	24.8	0.0
20	QPSK	100	0	23.85	23.94	23.87		
20	16QAM	1	1	23.71	23.87	23.83	24.8	0.0
20	84QAM	1	1	22.54	22.57	22.58	23.8	1.0
20	256QAM	1	1	20.75	20.94	20.89	21.8	3.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5		
15	QPSK	1	1	23.90	24.00	23.91	24.8	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	23.94	23.94	23.91	24.8	0.0
Channel				378500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	QPSK	1	1	23.76	23.84	23.80	24.8	0.0

n7 Other PA Ant0 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midst Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	21.23	21.40	21.36	22.4	0.0
40	PI2 BPSK	1	108	21.27	21.53	21.41		
40	PI2 BPSK	1	214	21.20	21.39	21.48		
40	PI2 BPSK	108	0	21.33	21.53	21.51	22.4	0.0
40	PI2 BPSK	108	54	21.19	21.43	21.53	22.4	0.0
40	PI2 BPSK	108	108	21.15	21.39	21.42	22.4	0.0
40	PI2 BPSK	216	0	21.26	21.39	21.36		
40	QPSK	1	1	21.20	21.58	21.47		
40	QPSK	1	108	21.14	21.54	21.37	22.4	0.0
40	QPSK	1	214	21.15	21.49	21.45		
40	QPSK	108	0	21.20	21.50	21.52	22.4	0.0
40	QPSK	108	54	21.25	21.57	21.36	22.4	0.0
40	QPSK	108	108	21.21	21.53	21.49	22.4	0.0
40	QPSK	216	0	21.32	21.47	21.42		
40	16QAM	1	1	21.26	21.48	21.42	22.4	0.0
40	84QAM	1	1	21.34	21.54	21.33	22.4	0.0
40	256QAM	1	1	20.57	20.74	20.69	21.4	1.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.37	21.45	21.47	22.4	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.34	21.46	21.38	22.4	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	21.20	21.48	21.45	22.4	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.27	21.37	21.38	22.4	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2555		
10	QPSK	1	1	21.23	21.44	21.40	22.4	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.18	21.42	21.47	22.4	0.0

n66 Other PA Ant0 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midst Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	23.37	23.51	23.37	24.5	0.0
40	PI2 BPSK	1	108	23.15	23.29	23.31		
40	PI2 BPSK	1	214	23.39	23.38	23.22		
40	PI2 BPSK	108	0	23.29	23.40	23.29	24.5	0.0
40	PI2 BPSK	108	54	23.29	23.30	23.19	24.5	0.0
40	PI2 BPSK	108	108	23.22	23.41	23.41	24.5	0.0
40	PI2 BPSK	216	0	23.27	23.33	23.18		
40	QPSK	1	1	23.54	23.00	23.51		
40	QPSK	1	108	23.20	23.32	23.28	24.5	0.0
40	QPSK	1	214	23.34	23.49	23.33		
40	QPSK	108	0	23.33	23.43	23.23	24.5	0.0
40	QPSK	108	54	23.32	23.56	23.52	24.5	0.0
40	QPSK	108	108	23.43	23.41	23.32	24.5	0.0
40	QPSK	216	0	23.47	23.51	23.50		
40	16QAM	1	1	23.37	23.58	23.39	24.5	0.0
40	84QAM	1	1	22.04	22.18	22.05	23.5	1.0
40	256QAM	1	1	20.14	20.24	20.16	21.5	3.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.56	23.59	23.37	24.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.35	23.42	23.37	24.5	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.45	23.42	23.39	24.5	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.44	23.45	23.48	25.0	0.0
Channel				341000	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.44	23.56	23.33	24.5	0.0



n38 Other PA Ant0 DS16							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519300	519396	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	21.06	21.32	21.30	
40	PI/2 BPSK	1	53	21.12	21.27	21.18	22.3
40	PI/2 BPSK	1	104	21.18	21.20	21.17	
40	PI/2 BPSK	50	0	21.06	21.28	21.29	22.3
40	PI/2 BPSK	50	28	21.11	21.25	21.23	22.3
40	PI/2 BPSK	50	56	21.07	21.28	21.08	22.3
40	PI/2 BPSK	100	0	21.05	21.28	21.25	
40	QPSK	1	1	21.25	21.33	21.22	
40	QPSK	1	53	21.28	21.21	21.09	22.3
40	QPSK	1	104	21.09	21.29	21.31	
40	QPSK	50	0	21.19	21.11	21.20	22.3
40	QPSK	50	28	21.12	21.30	21.15	22.3
40	QPSK	80	56	21.17	21.18	21.26	22.3
40	QPSK	100	0	21.21	21.28	21.26	
40	16QAM	1	1	21.24	21.34	21.29	22.3
40	16QAM	1	1	21.19	21.19	21.11	22.3
40	256QAM	1	1	19.19	19.41	19.37	20.3
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	21.21	21.18	21.29	22.3
Channel				516000	519000	520000	
Frequency (MHz)				2530	2595	2610	
20	QPSK	1	1	21.23	21.21	21.28	22.3
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	21.19	21.19	21.15	22.3
Channel				515004	519000	523998	
Frequency (MHz)				2674.02	2595	2614.98	
10	QPSK	1	1	21.05	21.11	21.30	22.3

n41 Other PA Ant0 DS16							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				526202	518998	529200	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.10	21.32	21.24	
100	PI/2 BPSK	1	137	21.19	21.29	21.22	22.3
100	PI/2 BPSK	1	271	21.15	21.31	21.19	
100	PI/2 BPSK	135	0	21.25	21.10	21.13	22.3
100	PI/2 BPSK	135	69	21.07	21.22	21.21	22.3
100	PI/2 BPSK	135	138	21.21	21.21	21.16	22.3
100	PI/2 BPSK	270	0	21.10	21.31	21.09	
100	QPSK	1	1	21.26	21.36	21.28	
100	QPSK	1	137	21.21	21.18	21.19	22.3
100	QPSK	1	271	21.10	21.13	21.28	
100	QPSK	135	0	21.18	21.15	21.22	22.3
100	QPSK	135	69	21.16	21.33	21.10	22.3
100	QPSK	135	138	21.13	21.27	21.16	
100	QPSK	270	0	21.25	21.34	21.09	22.3
100	16QAM	1	1	21.15	21.17	21.29	22.3
100	16QAM	1	1	21.24	21.10	21.24	22.3
100	256QAM	1	1	21.09	21.21	21.10	22.3
Channel				526200	518998	529198	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	21.17	21.29	21.28	22.3
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	21.15	21.19	21.10	22.3
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	21.23	21.19	21.10	22.3
Channel				505200	518998	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	21.26	21.28	21.12	22.3
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	21.14	21.31	21.24	22.3
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	21.12	21.23	21.27	22.3
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	21.04	21.13	21.16	22.3
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	21.06	21.11	21.25	22.3



### n2 Other PA Ant1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.00	20.98	21.08		
20	PI2 BPSK	1	53	21.15	21.04	21.01	22.2	0.0
20	PI2 BPSK	1	104	21.15	20.99	20.87		
20	PI2 BPSK	50	0	20.97	20.99	20.93	22.2	0.0
20	PI2 BPSK	50	28	20.93	21.06	20.87	22.2	0.0
20	PI2 BPSK	50	58	21.16	20.97	21.06	22.2	0.0
20	PI2 BPSK	100	0	21.03	21.00	20.97		
20	QPSK	1	1	21.08	21.17	21.07		
20	QPSK	1	53	20.92	21.16	21.02	22.2	0.0
20	QPSK	1	104	21.00	21.15	20.90		
20	QPSK	50	0	20.94	21.10	21.05	22.2	0.0
20	QPSK	50	28	20.92	21.15	21.01	22.2	0.0
20	QPSK	50	58	21.06	21.05	21.03	22.2	0.0
20	QPSK	100	0	20.98	21.05	20.96	22.2	0.0
20	16QAM	1	1	21.06	21.14	20.96	22.2	0.0
20	16QAM	1	1	21.01	21.11	21.04	22.2	0.0
20	256QAM	1	1	20.98	20.85	20.59	21.7	0.5
Channel								
Frequency (MHz)				37000	37600	38000		
15	QPSK	1	1	20.97	21.10	20.94	22.2	0.0
Channel								
Frequency (MHz)				371000	376000	381000		
10	QPSK	1	1	18.55	18.60	19.05	22.2	0.0
Channel								
Frequency (MHz)				375500	376000	381500		
5	QPSK	1	1	20.96	21.00	20.89	22.2	0.0

### n7 Other PA Ant1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	20.67	20.92	20.66		
40	PI2 BPSK	1	108	20.79	20.85	20.79	21.9	0.0
40	PI2 BPSK	1	214	20.68	20.80	20.69		
40	PI2 BPSK	108	0	20.80	20.77	20.81	21.9	0.0
40	PI2 BPSK	108	54	20.76	20.82	20.65	21.9	0.0
40	PI2 BPSK	108	108	20.73	20.80	20.76	21.9	0.0
40	PI2 BPSK	216	0	20.82	20.88	20.80		
40	QPSK	1	1	20.76	20.93	20.86		
40	QPSK	1	108	20.70	20.76	20.77	21.9	0.0
40	QPSK	1	214	20.88	20.76	20.72		
40	QPSK	108	0	20.83	20.84	20.82	21.9	0.0
40	QPSK	108	54	20.82	20.89	20.74	21.9	0.0
40	QPSK	108	108	20.80	20.77	20.87	21.9	0.0
40	QPSK	216	0	20.82	20.85	20.76		
40	16QAM	1	1	20.71	20.90	20.84	21.9	0.0
40	16QAM	1	1	20.88	20.85	20.70	21.9	0.0
40	256QAM	1	1	20.08	20.07	20.04	20.9	1.0
Channel								
Frequency (MHz)				50300	50700	51100		
30	QPSK	1	1	20.83	20.79	20.81	21.9	0.0
Channel								
Frequency (MHz)				502600	507000	511500		
25	QPSK	1	1	257.2	2535	257.5	21.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000		
20	PI2 BPSK	1	1	20.74	20.74	20.88	21.9	0.0
Channel								
Frequency (MHz)				501500	507000	512500		
15	QPSK	1	1	20.76	20.86	20.60	21.9	0.0
Channel								
Frequency (MHz)				501000	507000	513000		
10	QPSK	1	1	20.77	20.82	20.85	21.9	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	20.70	20.89	20.86	21.9	0.0

### n66 Other PA Ant1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	19.87	19.98	19.98		
40	PI2 BPSK	1	108	19.96	20.06	19.81	21.4	0.0
40	PI2 BPSK	1	214	20.08	20.06	19.94		
40	PI2 BPSK	108	0	20.07	20.08	19.88	21.4	0.0
40	PI2 BPSK	108	54	20.04	20.03	19.82	21.4	0.0
40	PI2 BPSK	108	108	20.09	20.08	20.03	21.4	0.0
40	PI2 BPSK	216	0	19.92	20.02	19.81		
40	QPSK	1	1	19.96	20.10	20.02		
40	QPSK	1	108	19.92	20.06	20.00	21.4	0.0
40	QPSK	1	214	19.92	19.98	19.84		
40	QPSK	108	0	19.87	20.03	19.87	21.4	0.0
40	QPSK	108	54	19.92	20.07	19.85	21.4	0.0
40	QPSK	108	108	20.00	20.02	19.94	21.4	0.0
40	QPSK	216	0	19.99	20.01	19.85		
40	16QAM	1	1	19.89	19.94	19.93	21.4	0.0
40	16QAM	1	1	19.84	20.06	20.05	21.4	0.0
40	256QAM	1	1	19.59	19.67	19.56	20.9	0.5
Channel								
Frequency (MHz)				34500	34900	35300		
30	QPSK	1	1	17.25	17.45	17.65	21.4	0.0
Channel								
Frequency (MHz)				344000	349000	354000		
20	QPSK	1	1	17.20	17.45	17.70	21.4	0.0
Channel								
Frequency (MHz)				343500	349000	354500		
15	QPSK	1	1	17.17.5	17.45	17.72.5	21.4	0.0
Channel								
Frequency (MHz)				343000	349000	355000		
10	QPSK	1	1	17.15	17.45	17.75	21.4	0.0
Channel								
Frequency (MHz)				342500	349000	355500		
5	QPSK	1	1	20.01	19.94	19.98	21.4	0.0



n38 Other PA Ant1 DS16							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	20.53	20.46	20.33	
40	PI/2 BPSK	1	53	20.63	20.61	20.53	21.3
40	PI/2 BPSK	1	104	20.56	20.61	20.37	0.0
40	PI/2 BPSK	50	0	20.54	20.66	20.54	21.3
40	PI/2 BPSK	50	28	20.62	20.63	20.46	21.3
40	PI/2 BPSK	50	56	20.64	20.57	20.32	21.3
40	PI/2 BPSK	100	0	20.64	20.60	20.40	0.0
40	QPSK	1	1	20.60	20.67	20.32	
40	QPSK	1	53	20.53	20.48	20.39	21.3
40	QPSK	1	104	20.48	20.56	20.42	
40	QPSK	50	0	20.57	20.48	20.38	21.3
40	QPSK	50	28	20.57	20.61	20.41	21.3
40	QPSK	80	56	20.55	20.50	20.35	21.3
40	QPSK	100	0	20.53	20.58	20.48	0.0
40	16QAM	1	1	20.50	20.65	20.52	21.3
40	16QAM	1	1	20.49	20.47	20.35	21.3
40	256QAM	1	1	18.31	18.33	18.28	18.8
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				5170.02	5190.00	5209.98	
30	QPSK	1	1	20.54	20.59	20.42	21.3
Channel				516000	519000	520000	
Frequency (MHz)				516000	519000	520000	
20	QPSK	1	1	20.57	20.04	20.48	21.3
Channel				515502	519000	522498	
Frequency (MHz)				515502	519000	522498	
15	QPSK	1	1	20.60	20.58	20.39	21.3
Channel				515004	519000	522998	
Frequency (MHz)				515004	519000	522998	
10	QPSK	1	1	20.49	20.48	20.48	21.3

n41 Other PA Ant1 DS16							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.47	20.53	20.40	
100	PI/2 BPSK	1	137	20.55	20.68	20.42	21.3
100	PI/2 BPSK	1	271	20.45	20.59	20.43	0.0
100	PI/2 BPSK	135	0	20.43	20.59	20.53	21.3
100	PI/2 BPSK	135	69	20.49	20.49	20.34	21.3
100	PI/2 BPSK	135	138	20.49	20.51	20.49	21.3
100	PI/2 BPSK	270	0	20.50	20.47	20.47	0.0
100	QPSK	1	1	20.58	20.71	20.55	
100	QPSK	1	137	20.51	20.59	20.48	21.3
100	QPSK	1	271	20.61	20.56	20.51	
100	QPSK	135	0	20.51	20.49	20.48	21.3
100	QPSK	135	69	20.64	20.65	20.45	21.3
100	QPSK	135	138	20.53	20.67	20.41	21.3
100	QPSK	270	0	20.45	20.63	20.38	0.0
100	16QAM	1	1	20.59	20.62	20.45	21.3
100	16QAM	1	1	20.43	20.67	20.40	21.3
100	256QAM	1	1	19.88	20.04	20.01	20.8
Channel				509200	518998	528998	
Frequency (MHz)				509200	518998	528998	
90	QPSK	1	1	20.64	20.66	20.39	21.3
Channel				507204	518998	529998	
Frequency (MHz)				507204	518998	529998	
80	QPSK	1	1	20.50	20.67	20.43	21.3
Channel				506202	518998	531000	
Frequency (MHz)				506202	518998	531000	
70	QPSK	1	1	20.44	20.45	20.53	21.3
Channel				505200	518998	531998	
Frequency (MHz)				505200	518998	531998	
60	QPSK	1	1	20.62	20.59	20.48	21.3
Channel				504204	518998	532998	
Frequency (MHz)				504204	518998	532998	
50	QPSK	1	1	20.56	20.50	20.40	21.3
Channel				503202	518998	533000	
Frequency (MHz)				503202	518998	533000	
40	QPSK	1	1	20.60	20.62	20.45	21.3
Channel				502200	518998	534998	
Frequency (MHz)				502200	518998	534998	
30	QPSK	1	1	20.45	20.43	20.41	21.3
Channel				501204	518998	535998	
Frequency (MHz)				501204	518998	535998	
20	QPSK	1	1	20.65	20.64	20.41	21.3



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	64QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Channel				1925	1930	1935		
10	QPSK	1	1	21.26	21.39	21.14	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dB)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2

BW (MHz)	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)				504000	507000	510000		
40	PI2 BPSK	1	1	22.25	22.40	22.25		
40	PI2 BPSK	1	108	22.45	22.45	22.32	24.0	0.0
40	PI2 BPSK	1	214	22.25	22.42	22.24		
40	PI2 BPSK	108	0	22.21	22.38	22.35	24.0	0.0
40	PI2 BPSK	108	54	22.34	22.37	22.23	24.0	0.0
40	PI2 BPSK	108	108	22.26	22.25	22.14	24.0	0.0
40	PI2 BPSK	216	0	22.43	22.46	22.46		
40	QPSK	1	1	22.38	22.05	22.58		
40	QPSK	1	108	22.42	22.81	22.53	24.0	0.0
40	QPSK	1	214	22.38	22.60	22.51		
40	QPSK	108	0	22.28	22.34	22.30	24.0	0.0
40	QPSK	108	54	22.31	22.48	22.32	24.0	0.0
40	QPSK	108	108	22.34	22.45	22.28	24.0	0.0
40	QPSK	216	0	22.33	22.50	22.42		
40	16QAM	1	1	22.06	22.12	22.08	24.0	0.0
40	64QAM	1	1	21.10	21.14	21.14	23.0	1.0
40	256QAM	1	1	19.21	19.33	19.15	21.0	3.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	22.36	22.52	22.47	24.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	22.40	22.56	22.30	24.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	22.26	22.44	22.38	24.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	22.18	22.43	22.48	24.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	22.20	22.50	22.37	24.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	22.19	22.63	22.49	24.0	0.0

### n66 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.12	21.18	21.11		
40	PI2 BPSK	1	108	21.03	21.19	21.04	23.0	0.0
40	PI2 BPSK	1	214	21.08	21.15	21.04		
40	PI2 BPSK	108	0	21.11	21.13	21.07	23.0	0.0
40	PI2 BPSK	108	54	21.01	21.13	21.06	23.0	0.0
40	PI2 BPSK	108	108	21.03	21.15	21.08	23.0	0.0
40	PI2 BPSK	216	0	21.06	21.13	21.08		
40	QPSK	1	1	21.17	21.23	21.13		
40	QPSK	1	108	21.10	21.14	21.12	23.0	0.0
40	QPSK	1	214	21.22	21.22	21.03		
40	QPSK	108	0	21.03	21.15	21.06	23.0	0.0
40	QPSK	108	54	21.15	21.17	21.16	23.0	0.0
40	QPSK	108	108	21.10	21.14	21.08	23.0	0.0
40	QPSK	216	0	21.13	21.15	21.14		
40	16QAM	1	1	21.13	21.16	21.04	23.0	0.0
40	64QAM	1	1	20.25	20.24	20.05	22.0	1.0
40	256QAM	1	1	18.02	18.23	18.12	20.0	3.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	21.11	21.21	21.10	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	21.14	21.18	21.01	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dB)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	21.07	21.21	21.13	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	21.14	21.08	21.02	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	21.02	21.12	21.05	23.0	0.0



n38 Other PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519300	519396	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	22.48	22.50	22.50	
40	PI/2 BPSK	1	53	22.40	22.46	22.39	24.0
40	PI/2 BPSK	1	104	22.51	22.55	22.54	
40	PI/2 BPSK	50	0	22.03	22.15	22.12	23.5
40	PI/2 BPSK	50	28	22.34	22.52	22.41	24.0
40	PI/2 BPSK	50	56	22.18	22.17	22.06	23.5
40	PI/2 BPSK	100	0	21.86	22.08	22.06	
40	QPSK	1	1	22.55	22.63	22.58	
40	QPSK	1	53	22.33	22.45	22.23	24.0
40	QPSK	1	104	22.61	22.62	22.42	
40	QPSK	50	0	21.52	21.51	21.52	23.0
40	QPSK	50	28	22.53	22.59	22.57	24.0
40	QPSK	80	56	21.46	21.61	21.61	23.0
40	QPSK	100	0	21.47	21.52	21.44	
40	16QAM	1	1	21.26	21.32	21.25	23.0
40	16QAM	1	1	20.19	20.25	20.06	21.5
40	256QAM	1	1	18.24	18.23	18.02	19.5
Channel				517002	516900	520398	
Frequency (MHz)				2585.01	2585	2604.99	
30	QPSK	1	1	22.48	22.53	22.54	24.0
Channel				516000	519000	520000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	22.55	22.51	22.44	24.0
Channel				515502	519000	523498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	22.40	22.57	22.50	24.0
Channel				515004	519000	523998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	22.34	22.47	22.59	24.0

n41 Other PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				5242	5262	52600	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.81	22.88	22.84	
100	PI/2 BPSK	1	137	22.96	22.98	22.81	24.0
100	PI/2 BPSK	1	271	22.76	22.78	22.76	
100	PI/2 BPSK	135	0	22.82	22.98	22.84	24.0
100	PI/2 BPSK	135	69	22.89	22.91	22.89	24.0
100	PI/2 BPSK	135	138	22.57	22.71	22.60	24.0
100	PI/2 BPSK	270	0	22.88	22.87	22.86	
100	QPSK	1	1	22.48	23.00	22.85	
100	QPSK	1	137	22.76	22.81	22.74	24.0
100	QPSK	1	271	22.55	22.65	22.45	
100	QPSK	135	0	22.74	22.86	22.74	24.0
100	QPSK	135	69	22.82	22.92	22.87	24.0
100	QPSK	135	138	22.76	22.77	22.58	24.0
100	QPSK	270	0	22.75	22.82	22.76	
100	16QAM	1	1	22.74	22.91	22.78	24.0
100	16QAM	1	1	22.07	22.21	22.01	23.0
100	256QAM	1	1	20.40	20.59	20.60	21.0
Channel				506300	518398	520398	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	22.44	22.87	22.74	24.0
Channel				507204	518598	520998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	22.42	22.89	22.85	24.0
Channel				506202	518598	521000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.41	22.93	22.89	24.0
Channel				505200	518598	521998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	22.31	22.91	22.86	24.0
Channel				504204	518598	522998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.46	22.82	22.87	24.0
Channel				503202	518598	523000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.31	22.84	22.72	24.0
Channel				502200	518598	524998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	22.35	22.83	22.83	24.0
Channel				501204	518598	525998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.40	22.91	22.75	24.0



### n2 Other PA Ant3 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	20.75	20.79	20.71		
20	PI2 BPSK	1	53	20.67	20.92	20.68	21.9	0.0
20	PI2 BPSK	1	164	20.76	20.76	20.76		
20	PI2 BPSK	50	0	20.74	20.71	20.84	21.9	0.0
20	PI2 BPSK	50	28	20.85	20.77	20.76	21.9	0.0
20	PI2 BPSK	50	58	20.88	20.79	20.79	21.9	0.0
20	PI2 BPSK	100	0	20.88	20.92	20.84		
20	QPSK	1	1	20.71	20.69	20.82		
20	QPSK	1	53	20.79	20.78	20.65	21.9	0.0
20	QPSK	1	104	20.81	20.72	20.83		
20	QPSK	50	0	20.84	20.84	20.83	21.9	0.0
20	QPSK	50	28	20.87	20.92	20.80	21.9	0.0
20	QPSK	50	58	20.77	20.81	20.89		
20	QPSK	100	0	20.83	20.87	20.75	21.9	0.0
20	16QAM	1	1	20.82	20.84	20.84	21.9	0.0
20	16QAM	1	1	20.82	20.78	20.74	21.9	0.0
20	256QAM	1	1	19.23	19.29	19.12	20.4	1.5
Channel								
Frequency (MHz)				37500	37600	38000	Tune-up limit (dB)	MPR (dB)
Channel				37500	37600	38000		
15	QPSK	1	1	20.84	20.87	20.70	21.9	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Channel				371000	376000	381000		
10	QPSK	1	1	20.79	20.84	20.82	21.9	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dB)	MPR (dB)
Channel				375500	376000	381500		
5	QPSK	1	1	20.76	20.79	20.80	21.9	0.0

### n7 Other PA Ant3 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	20.02	20.15	20.09		
40	PI2 BPSK	1	108	20.04	20.09	20.14	21.4	0.0
40	PI2 BPSK	1	214	20.20	20.23	20.02		
40	PI2 BPSK	108	0	20.20	20.19	20.18	21.4	0.0
40	PI2 BPSK	108	54	20.09	20.05	20.21	21.4	0.0
40	PI2 BPSK	108	108	20.02	20.17	20.22	21.4	0.0
40	PI2 BPSK	216	0	20.05	20.15	20.23		
40	QPSK	1	1	20.03	20.26	20.18		
40	QPSK	1	108	20.08	20.17	20.06	21.4	0.0
40	QPSK	1	214	20.09	20.16	20.11		
40	QPSK	108	0	20.07	20.19	20.16	21.4	0.0
40	QPSK	108	54	20.10	20.20	20.05	21.4	0.0
40	QPSK	108	108	20.16	20.06	20.15	21.4	0.0
40	QPSK	216	0	20.15	20.18	20.17		
40	16QAM	1	1	20.05	20.15	20.05	21.4	0.0
40	16QAM	1	1	20.00	20.24	20.19	21.4	0.0
40	256QAM	1	1	20.14	20.14	19.93	21.4	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dB)	MPR (dB)
Channel				50300	50700	51100		
30	QPSK	1	1	20.15	20.07	20.20	21.4	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dB)	MPR (dB)
Channel				502600	507000	511500		
25	QPSK	1	1	20.09	20.17	20.03	21.4	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Channel				502000	507000	512000		
20	PI2 BPSK	1	1	20.16	20.12	20.19	21.4	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Channel				501500	507000	512500		
15	QPSK	1	1	20.22	20.04	20.23	21.4	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Channel				501000	507000	513000		
10	QPSK	1	1	20.03	20.20	20.16	21.4	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Channel				500500	507000	513500		
5	QPSK	1	1	20.14	20.19	20.23	21.4	0.0

### n66 Other PA Ant3 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	20.62	20.57	20.39		
40	PI2 BPSK	1	108	20.48	20.64	20.41	21.5	0.0
40	PI2 BPSK	1	214	20.82	20.86	20.58		
40	PI2 BPSK	108	0	20.45	20.59	20.39	21.5	0.0
40	PI2 BPSK	108	54	20.46	20.58	20.41	21.5	0.0
40	PI2 BPSK	108	108	20.49	20.66	20.52	21.5	0.0
40	PI2 BPSK	216	0	20.55	20.57	20.58		
40	QPSK	1	1	20.85	20.86	20.51		
40	QPSK	1	108	20.53	20.81	20.44	21.5	0.0
40	QPSK	1	214	20.55	20.61	20.62		
40	QPSK	108	0	20.58	20.83	20.44	21.5	0.0
40	QPSK	108	54	20.63	20.86	20.41	21.5	0.0
40	QPSK	108	108	20.56	20.61	20.55		
40	QPSK	216	0	20.49	20.57	20.51	21.5	0.0
40	16QAM	1	1	20.52	20.57	20.51	21.5	0.0
40	16QAM	1	1	20.50	20.84	20.44	21.5	0.0
40	256QAM	1	1	19.00	18.99	19.00	20.0	1.5
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dB)	MPR (dB)
Channel				34500	34900	35300		
30	QPSK	1	1	20.44	20.58	20.43	21.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
Channel				344000	349000	354000		
20	QPSK	1	1	20.85	20.80	20.40	21.5	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dB)	MPR (dB)
Channel				343500	349000	354500		
15	QPSK	1	1	20.56	20.56	20.40	21.5	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				343000	349000	355000		
10	QPSK	1	1	20.05	20.60	20.45	21.5	0.0
Channel								
Frequency (MHz)				342600	349000	355500	Tune-up limit (dB)	MPR (dB)
Channel				342600	349000	355500		
5	QPSK	1	1	20.57	20.83	20.48	21.5	0.0



n38 Other PA Ant3 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				519304	519300	519396			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	20.04	20.15	20.03			
40	PI2 BPSK	1	53	20.10	20.13	20.20	21.1	0.0	
40	PI2 BPSK	1	104	20.08	20.21	20.02			
40	PI2 BPSK	50	0	20.15	20.15	20.13	21.1	0.0	
40	PI2 BPSK	50	28	19.99	20.16	20.06	21.1	0.0	
40	PI2 BPSK	50	56	20.14	20.06	20.15	21.1	0.0	
40	PI2 BPSK	100	0	20.03	20.13	20.11			
40	QPSK	1	1	20.00	20.20	20.04			
40	QPSK	1	53	20.19	20.18	20.03	21.1	0.0	
40	QPSK	1	104	20.11	20.18	20.19			
40	QPSK	50	0	20.16	20.17	20.06	21.1	0.0	
40	QPSK	50	28	20.18	20.20	20.06	21.1	0.0	
40	QPSK	50	56	20.19	20.09	20.06			
40	QPSK	100	0	20.12	20.18	20.14			
40	16QAM	1	1	19.98	20.13	20.04	21.1	0.0	
40	16QAM	1	1	19.99	20.17	20.03	21.1	0.0	
40	256QAM	1	1	18.47	18.64	18.43	19.6	1.5	
Channel				517002	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	20.20	20.18	20.19	21.1	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2570	2595	2610			
20	QPSK	1	1	20.04	20.16	20.02	21.1	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2677.51	2595	2612.49			
15	QPSK	1	1	19.97	20.09	20.17	21.1	0.0	
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675.02	2595	2614.98			
10	QPSK	1	1	20.06	20.03	20.06	21.1	0.0	

n41 Other PA Ant3 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				526292	518998	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.00	20.23	20.08			
100	PI2 BPSK	1	137	20.07	20.25	20.21	21.1	0.0	
100	PI2 BPSK	1	271	20.05	20.19	20.22			
100	PI2 BPSK	135	0	20.16	20.05	20.21	21.1	0.0	
100	PI2 BPSK	135	69	20.14	20.07	20.05	21.1	0.0	
100	PI2 BPSK	135	138	19.99	20.05	20.04	21.1	0.0	
100	PI2 BPSK	270	0	20.12	20.10	20.13			
100	QPSK	1	1	20.22	20.28	20.14			
100	QPSK	1	137	20.17	20.24	20.02	21.1	0.0	
100	QPSK	1	271	20.06	20.05	20.16			
100	QPSK	135	0	20.17	20.21	20.11	21.1	0.0	
100	QPSK	135	69	20.08	20.24	20.12	21.1	0.0	
100	QPSK	135	138	20.18	20.15	20.16			
100	QPSK	270	0	20.04	20.22	20.12	21.1	0.0	
100	16QAM	1	1	20.08	20.23	20.21	21.1	0.0	
100	16QAM	1	1	20.18	20.14	20.19	21.1	0.0	
100	256QAM	1	1	20.18	20.16	20.02	21.1	0.0	
Channel				526290	518998	529000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.99			
90	QPSK	1	1	20.00	20.07	20.06	21.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.17	20.17	20.03	21.1	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.00	20.06	20.00	21.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.99			
60	QPSK	1	1	20.02	20.04	20.01	21.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.03	20.11	20.07	21.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.00	20.17	20.22	21.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	20.15	20.20	20.16	21.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.16	20.08	20.02	21.1	0.0	





Reduced Power Mode for Other PA DSI9

n2 Other PA Ant0 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.30	19.30	19.30			
20	PI2 BPSK	1	53	19.48	19.34	19.26	20.7	0.0	
20	PI2 BPSK	1	104	19.48	19.34	19.16			
20	PI2 BPSK	50	0	19.37	19.37	19.26	20.7	0.0	
20	PI2 BPSK	50	28	19.40	19.46	19.18	20.7	0.0	
20	PI2 BPSK	50	58	19.38	19.32	19.23			
20	PI2 BPSK	100	0	19.36	19.48	19.27	20.7	0.0	
20	QPSK	1	1	19.51	19.53	19.34			
20	QPSK	1	53	19.34	19.42	19.15	20.7	0.0	
20	QPSK	1	104	19.36	19.35	19.25			
20	QPSK	50	0	19.43	19.43	19.26	20.7	0.0	
20	QPSK	50	28	19.37	19.50	19.20	20.7	0.0	
20	QPSK	50	58	19.46	19.48	19.15	20.7	0.0	
20	QPSK	100	0	19.46	19.49	19.26	20.7	0.0	
20	16QAM	1	1	19.34	19.44	19.22	20.7	0.0	
20	64QAM	1	1	19.42	19.36	19.34	20.7	0.0	
20	256QAM	1	1	19.47	19.40	19.26	20.7	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1877.5	1880	1922.5			
15	QPSK	1	1	19.32	19.37	19.32	20.7	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	19.51	19.33	19.24	20.7	0.0	
Channel				376500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1927.5			
5	QPSK	1	1	19.34	19.43	19.17	20.7	0.0	

n7 Other PA Ant0 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	18.31	18.60	18.30			
40	PI2 BPSK	1	108	18.38	18.46	18.30	19.5	0.0	
40	PI2 BPSK	1	214	18.29	18.48	18.34			
40	PI2 BPSK	108	0	18.24	18.58	18.42	19.5	0.0	
40	PI2 BPSK	108	54	18.26	18.44	18.54	19.5	0.0	
40	PI2 BPSK	108	108	18.33	18.43	18.52	19.5	0.0	
40	PI2 BPSK	216	0	18.31	18.40	18.49			
40	QPSK	1	1	18.40	18.61	18.54			
40	QPSK	1	108	18.29	18.55	18.41	19.5	0.0	
40	QPSK	1	214	18.41	18.53	18.38			
40	QPSK	108	0	18.32	18.55	18.46	19.5	0.0	
40	QPSK	108	54	18.29	18.60	18.34	19.5	0.0	
40	QPSK	108	108	18.21	18.49	18.56			
40	QPSK	216	0	18.40	18.58	18.36	19.5	0.0	
40	16QAM	1	1	18.36	18.40	18.41	19.5	0.0	
40	64QAM	1	1	18.38	18.55	18.41	19.5	0.0	
40	256QAM	1	1	18.26	18.43	18.54	19.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.31	18.50	18.37	19.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.42	18.47	18.43	19.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	18.40	18.44	18.50	19.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.40	18.55	18.45	19.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.21	18.41	18.49	19.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.38	18.54	18.47	19.5	0.0	

n66 Other PA Ant0 DSI9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	18.97	19.06	18.79			
40	PI2 BPSK	1	108	18.98	18.95	18.78	20.3	0.0	
40	PI2 BPSK	1	214	18.94	18.93	18.77			
40	PI2 BPSK	108	0	18.97	19.00	18.90	20.3	0.0	
40	PI2 BPSK	108	54	18.96	19.01	18.99	20.3	0.0	
40	PI2 BPSK	108	108	18.92	18.97	18.76	20.3	0.0	
40	PI2 BPSK	216	0	18.84	18.99	18.90			
40	QPSK	1	1	19.04	19.08	18.98			
40	QPSK	1	108	18.97	19.05	18.83	20.3	0.0	
40	QPSK	1	214	18.99	19.05	18.84			
40	QPSK	108	0	18.95	19.04	18.84	20.3	0.0	
40	QPSK	108	54	18.89	19.06	18.89	20.3	0.0	
40	QPSK	108	108	19.05	18.86	18.81	20.3	0.0	
40	QPSK	216	0	18.87	19.00	18.87	20.3	0.0	
40	16QAM	1	1	19.02	18.94	18.93	20.3	0.0	
40	64QAM	1	1	18.92	18.97	18.88	20.3	0.0	
40	256QAM	1	1	19.00	18.96	18.81	20.3	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.97	19.00	18.91	20.3	0.0	
Channel				344000	349000	349000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.95	18.86	18.92	20.3	0.0	
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1772.5			
15	QPSK	1	1	18.95	19.04	18.83	20.3	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.99	19.02	18.89	20.3	0.0	
Channel				342000	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.87	18.90	18.92	20.3	0.0	



n38 Other PA Ant0 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI/2 BPSK	1	1	19.47	19.73	19.68	
40	PI/2 BPSK	1	53	19.59	19.72	19.52	20.4
40	PI/2 BPSK	1	104	19.62	19.69	19.66	
40	PI/2 BPSK	50	0	19.60	19.65	19.53	20.4
40	PI/2 BPSK	50	28	19.48	19.71	19.68	20.4
40	PI/2 BPSK	50	56	19.57	19.59	19.58	20.4
40	PI/2 BPSK	100	0	19.66	19.60	19.50	
40	QPSK	1	1	19.65	19.74	19.68	
40	QPSK	1	53	19.53	19.72	19.54	20.4
40	QPSK	1	104	19.57	19.65	19.49	
40	QPSK	50	0	19.56	19.63	19.56	20.4
40	QPSK	50	28	19.49	19.70	19.61	20.4
40	QPSK	80	56	19.51	19.54	19.50	20.4
40	QPSK	100	0	19.54	19.61	19.60	
40	16QAM	1	1	19.54	19.56	19.56	20.4
40	16QAM	1	1	19.52	19.65	19.48	20.4
40	256QAM	1	1	19.01	19.22	19.35	19.9
Channel				2585.01	2585	2604.99	
Frequency (MHz)				517002	517000	520398	
30	QPSK	1	1	19.62	19.70	19.57	20.4
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	19.57	19.69	19.47	20.4
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	19.45	19.57	19.47	20.4
Channel				515004	519000	522998	
Frequency (MHz)				2673.02	2595	2614.98	
10	QPSK	1	1	19.67	19.72	19.64	20.4

n41 Other PA Ant0 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5246.01	5292.99	5240	
100	PI/2 BPSK	1	1	19.18	19.77	19.52	
100	PI/2 BPSK	1	137	19.20	19.69	19.46	20.4
100	PI/2 BPSK	1	271	19.35	19.84	19.43	
100	PI/2 BPSK	135	0	19.32	19.81	19.38	20.4
100	PI/2 BPSK	135	69	19.23	19.78	19.58	20.4
100	PI/2 BPSK	135	138	19.29	19.71	19.52	20.4
100	PI/2 BPSK	270	0	19.36	19.63	19.54	
100	QPSK	1	1	19.36	19.89	19.57	
100	QPSK	1	137	19.24	19.86	19.40	20.4
100	QPSK	1	271	19.18	19.77	19.44	
100	QPSK	135	0	19.37	19.63	19.52	20.4
100	QPSK	135	69	19.23	19.68	19.35	20.4
100	QPSK	135	138	19.30	19.63	19.44	20.4
100	QPSK	270	0	19.22	19.85	19.38	20.4
100	16QAM	1	1	19.35	19.78	19.54	20.4
100	16QAM	1	1	19.16	19.62	19.49	20.4
100	256QAM	1	1	19.23	19.63	19.53	20.4
Channel				502000	518998	526998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	19.29	19.78	19.51	20.4
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	19.15	19.63	19.45	20.4
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	19.20	19.73	19.43	20.4
Channel				505200	518998	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	19.23	19.71	19.45	20.4
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	19.14	19.65	19.53	20.4
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	19.26	19.76	19.58	20.4
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	19.35	19.75	19.36	20.4
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	19.18	19.70	19.43	20.4



### n2 Other PA Ant1 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	10.86	11.13	11.00		
20	PI2 BPSK	1	53	11.02	11.00	10.91	12.3	0.0
20	PI2 BPSK	1	104	11.01	10.99	11.00		
20	PI2 BPSK	50	0	10.84	11.00	11.07	12.3	0.0
20	PI2 BPSK	50	28	10.97	11.04	11.05	12.3	0.0
20	PI2 BPSK	50	58	10.86	10.98	11.01		
20	PI2 BPSK	100	0	10.85	10.98	10.91		
20	QPSK	1	1	11.03	11.09	11.11		
20	QPSK	1	53	10.98	11.15	11.06	12.3	0.0
20	QPSK	1	104	10.93	11.00	11.05		
20	QPSK	50	0	10.82	11.00	10.96	12.3	0.0
20	QPSK	50	28	10.91	11.18	11.10	12.3	0.0
20	QPSK	50	58	10.83	11.11	10.88		
20	QPSK	100	0	10.95	11.15	10.85		
20	16QAM	1	1	10.94	11.09	10.91	12.3	0.0
20	16QAM	1	1	11.04	11.14	10.92	12.3	0.0
20	256QAM	1	1	11.03	11.05	10.93	12.3	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	11.03	11.01	10.98	12.3	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	10.87	11.00	10.84	12.3	0.0
Channel								
Frequency (MHz)				375000	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	10.91	11.04	10.99	12.3	0.0

### n7 Other PA Ant1 DSI9

BW (MHz)	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)				2620	2635	2650		
40	PI2 BPSK	1	1	15.12	15.23	15.08		
40	PI2 BPSK	1	108	15.18	15.26	15.12	16.4	0.0
40	PI2 BPSK	1	214	15.14	15.21	15.19		
40	PI2 BPSK	108	0	15.25	15.35	15.19	16.4	0.0
40	PI2 BPSK	108	54	15.12	15.26	15.06	16.4	0.0
40	PI2 BPSK	108	108	15.23	15.18	15.21		
40	PI2 BPSK	216	0	15.15	15.31	15.16		
40	QPSK	1	1	15.26	15.38	15.28		
40	QPSK	1	108	15.28	15.31	15.14	16.4	0.0
40	QPSK	1	214	15.08	15.26	15.10		
40	QPSK	108	0	15.27	15.31	15.15	16.4	0.0
40	QPSK	108	54	15.19	15.38	15.14	16.4	0.0
40	QPSK	108	108	15.19	15.25	15.06		
40	QPSK	216	0	15.23	15.37	15.20	16.4	0.0
40	16QAM	1	1	15.18	15.27	15.22	16.4	0.0
40	16QAM	1	1	15.19	15.32	15.19	16.4	0.0
40	256QAM	1	1	15.07	15.30	15.12	16.4	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.25	15.22	15.22	16.4	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.25	15.33	15.27	16.4	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	15.14	15.25	15.21	16.4	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.08	15.17	15.28	16.4	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.16	15.17	15.13	16.4	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.27	15.38	15.19	16.4	0.0

### n66 Other PA Ant1 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	9.31	9.37	9.27		
40	PI2 BPSK	1	108	9.23	9.44	9.20	10.5	0.0
40	PI2 BPSK	1	214	9.24	9.47	9.42		
40	PI2 BPSK	108	0	9.18	9.40	9.38	10.5	0.0
40	PI2 BPSK	108	54	9.32	9.53	9.41	10.5	0.0
40	PI2 BPSK	108	108	9.18	9.42	9.26		
40	PI2 BPSK	216	0	9.18	9.41	9.30		
40	QPSK	1	1	9.38	9.55	9.42		
40	QPSK	1	108	9.19	9.43	9.34	10.5	0.0
40	QPSK	1	214	9.23	9.51	9.25		
40	QPSK	108	0	9.21	9.41	9.29	10.5	0.0
40	QPSK	108	54	9.32	9.49	9.36	10.5	0.0
40	QPSK	108	108	9.30	9.45	9.37		
40	QPSK	216	0	9.28	9.43	9.33	10.5	0.0
40	16QAM	1	1	9.28	9.46	9.33	10.5	0.0
40	16QAM	1	1	9.39	9.39	9.32	10.5	0.0
40	256QAM	1	1	9.39	9.40	9.21	10.5	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	9.17	9.34	9.31	10.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	9.22	9.34	9.24	10.5	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	9.19	9.48	9.38	10.5	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	9.24	9.54	9.39	10.5	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	9.38	9.34	9.44	10.5	0.0



n38 Other PA Ant1 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5189.96	
40	PI2 BPSK	1	1	13.96	14.12	14.00	
40	PI2 BPSK	1	53	14.13	14.13	13.91	15.4
40	PI2 BPSK	1	104	14.18	14.28	13.89	
40	PI2 BPSK	50	0	14.07	14.11	13.88	15.4
40	PI2 BPSK	50	28	14.15	14.13	13.83	15.4
40	PI2 BPSK	50	56	14.09	14.14	13.87	15.4
40	PI2 BPSK	100	0	13.96	14.20	13.89	
40	QPSK	1	1	14.17	14.29	13.99	
40	QPSK	1	53	14.19	14.17	13.90	15.4
40	QPSK	1	104	14.05	14.21	13.98	
40	QPSK	50	0	14.04	14.22	13.97	15.4
40	QPSK	50	28	13.95	14.25	13.85	15.4
40	QPSK	80	56	14.08	14.17	13.89	
40	QPSK	100	0	14.02	14.08	13.95	15.4
40	16QAM	1	1	14.04	14.16	13.87	15.4
40	16QAM	1	1	14.12	14.19	13.85	15.4
40	256QAM	1	1	14.04	14.19	13.78	15.4
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	14.11	14.11	13.80	15.4
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	14.10	14.11	13.83	15.4
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	14.10	14.15	13.81	15.4
Channel				515004	519000	522996	
Frequency (MHz)				2572.02	2595	2614.98	
10	QPSK	1	1	14.00	14.28	13.90	15.4

n41 Other PA Ant1 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.00	5185.98	5280.00	
100	PI2 BPSK	1	1	14.07	14.13	13.87	
100	PI2 BPSK	1	137	14.14	14.17	13.80	15.4
100	PI2 BPSK	1	271	14.03	14.17	13.79	
100	PI2 BPSK	135	0	14.11	14.09	13.86	15.4
100	PI2 BPSK	135	69	13.99	14.07	13.92	15.4
100	PI2 BPSK	135	138	13.99	14.14	13.82	15.4
100	PI2 BPSK	270	0	14.13	14.16	13.90	
100	QPSK	1	1	14.12	14.28	13.95	
100	QPSK	1	137	14.13	14.11	13.78	15.4
100	QPSK	1	271	14.08	14.21	13.91	
100	QPSK	135	0	13.97	14.08	13.81	15.4
100	QPSK	135	69	14.10	14.25	13.81	15.4
100	QPSK	135	138	13.98	14.14	13.91	
100	QPSK	270	0	14.12	14.23	13.83	15.4
100	16QAM	1	1	14.00	14.27	13.93	15.4
100	16QAM	1	1	13.92	14.23	13.73	15.4
100	256QAM	1	1	14.11	14.20	13.79	15.4
Channel				5092.00	5185.98	5280.00	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	14.07	14.26	13.89	15.4
Channel				507204	518598	529988	
Frequency (MHz)				2536.02	2592.99	2648.99	
80	QPSK	1	1	14.05	14.20	13.82	15.4
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	14.12	14.07	13.95	15.4
Channel				505200	518598	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	14.09	14.19	13.75	15.4
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	14.04	14.10	13.88	15.4
Channel				503202	518598	533998	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	14.06	14.26	13.92	15.4
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	13.95	14.03	13.77	15.4
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	14.08	14.09	13.75	15.4



### n2 Other PA Ant2 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	22.5	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09		
20	PI2 BPSK	50	0	21.03	21.21	21.08	22.5	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	22.5	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	22.5	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	22.5	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	22.5	0.0
20	QPSK	50	28	21.23	21.32	21.24	22.5	0.0
20	QPSK	50	56	21.19	21.19	21.01	22.5	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	22.5	0.0
20	64QAM	1	1	20.09	20.01	20.08	21.5	1.0
20	256QAM	1	1	18.34	18.36	18.37	19.5	3.0
Channel								
Frequency (MHz)				37350	37600	38000	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	22.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Channel				1025	1030	1035		
10	QPSK	1	1	21.26	21.39	21.14	22.5	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	22.5	0.0

### n7 Other PA Ant2 DSI9

BW (MHz)	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)				50400	50700	51000		
40	PI2 BPSK	1	1	20.85	21.18	20.96		
40	PI2 BPSK	1	108	20.73	21.15	20.80	22.2	0.0
40	PI2 BPSK	1	216	20.78	21.16	20.83		
40	PI2 BPSK	108	0	20.75	21.15	20.92	22.2	0.0
40	PI2 BPSK	108	54	20.83	21.24	20.99	22.2	0.0
40	PI2 BPSK	108	108	20.70	21.21	20.95	22.2	0.0
40	PI2 BPSK	216	0	20.80	21.05	20.79		
40	QPSK	1	1	20.78	21.25	21.08		
40	QPSK	1	108	20.82	21.21	20.81	22.2	0.0
40	QPSK	1	214	20.82	21.21	20.78		
40	QPSK	108	0	20.78	21.11	20.86	22.2	0.0
40	QPSK	108	54	20.77	21.20	20.94	22.2	0.0
40	QPSK	108	108	20.70	21.13	20.83	22.2	0.0
40	QPSK	216	0	20.72	21.14	20.81		
40	16QAM	1	1	20.76	21.12	20.89	22.2	0.0
40	64QAM	1	1	20.72	21.22	21.02	22.2	0.0
40	256QAM	1	1	19.21	19.30	19.06	20.7	1.5
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	20.73	21.06	20.98	22.2	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Channel				2512.5	2535	2557.5		
25	QPSK	1	1	20.59	21.19	20.99	22.2	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	20.80	21.08	20.89	22.2	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	20.06	21.04	20.96	22.2	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	20.56	21.06	20.82	22.2	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	20.60	21.13	20.89	22.2	0.0

### n66 Other PA Ant2 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	20.16	20.10	20.02		
40	PI2 BPSK	1	108	19.96	20.13	19.95	21.3	0.0
40	PI2 BPSK	1	214	20.14	20.03	19.91		
40	PI2 BPSK	108	0	20.10	20.15	20.05	21.3	0.0
40	PI2 BPSK	108	54	20.08	19.98	19.98	21.3	0.0
40	PI2 BPSK	108	108	20.02	20.13	20.10	21.3	0.0
40	PI2 BPSK	216	0	20.07	19.99	19.88		
40	QPSK	1	1	20.16	20.19	20.10		
40	QPSK	1	108	20.05	20.04	20.02	21.3	0.0
40	QPSK	1	214	19.95	20.15	20.01		
40	QPSK	108	0	19.95	20.03	20.01	21.3	0.0
40	QPSK	108	54	20.17	20.18	20.07	21.3	0.0
40	QPSK	108	108	19.99	20.14	19.89	21.3	0.0
40	QPSK	216	0	19.98	20.07	19.90		
40	16QAM	1	1	20.12	20.13	19.91	21.3	0.0
40	64QAM	1	1	20.17	19.99	20.06	21.3	0.0
40	256QAM	1	1	18.00	18.24	17.86	19.3	2.0
Channel								
Frequency (MHz)				34300	34900	35500	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	20.00	20.03	20.09	21.3	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	20.15	20.14	19.90	21.3	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	19.99	20.03	20.02	21.3	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	20.17	20.14	20.03	21.3	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	19.99	20.07	20.02	21.3	0.0



n38 Other PA Ant2 DS19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				519304	519300	519396		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	19.94	20.06	20.06		
40	PI/2 BPSK	1	53	20.01	20.14	19.99	21.5	0.0
40	PI/2 BPSK	1	104	20.06	20.18	20.17		
40	PI/2 BPSK	50	0	19.86	20.18	20.05	21.5	0.0
40	PI/2 BPSK	50	28	20.06	20.03	19.95	21.5	0.0
40	PI/2 BPSK	50	56	19.96	20.18	19.99	21.5	0.0
40	PI/2 BPSK	100	0	19.95	20.05	19.96		
40	QPSK	1	1	20.07	20.19	20.17		
40	QPSK	1	53	20.05	20.17	20.11	21.5	0.0
40	QPSK	1	104	19.91	20.07	20.14		
40	QPSK	50	0	19.92	20.03	20.05	21.5	0.0
40	QPSK	50	28	19.96	20.17	20.14	21.5	0.0
40	QPSK	50	56	20.00	20.10	20.10		
40	QPSK	100	0	20.08	20.11	19.97	21.5	0.0
40	16QAM	1	1	20.07	20.16	20.12	21.5	0.0
40	16QAM	1	1	19.92	20.09	20.07	21.5	0.0
40	256QAM	1	1	18.19	18.17	18.03	20.0	1.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.07	20.07	20.08	21.5	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2570	2595	2610		
20	QPSK	1	1	19.89	20.09	20.02	21.5	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	19.89	20.07	19.97	21.5	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.02	2595	2614.98		
10	QPSK	1	1	19.86	20.08	20.00	21.5	0.0

n41 Other PA Ant2 DS19								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				529202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.87	20.58	20.24		
100	PI/2 BPSK	1	137	19.91	20.46	20.11	21.5	0.0
100	PI/2 BPSK	1	271	19.84	20.41	20.25		
100	PI/2 BPSK	135	0	20.05	20.60	20.16	21.5	0.0
100	PI/2 BPSK	135	69	20.06	20.57	20.28	21.5	0.0
100	PI/2 BPSK	135	138	20.06	20.48	20.06	21.5	0.0
100	PI/2 BPSK	270	0	19.87	20.57	20.15		
100	QPSK	1	1	20.05	20.61	20.27		
100	QPSK	1	137	19.92	20.48	20.25	21.5	0.0
100	QPSK	1	271	19.92	20.57	20.12		
100	QPSK	135	0	19.84	20.55	20.27	21.5	0.0
100	QPSK	135	69	19.94	20.60	20.07	21.5	0.0
100	QPSK	135	138	19.87	20.40	20.15		
100	QPSK	270	0	20.03	20.50	20.12	21.5	0.0
100	16QAM	1	1	19.87	20.55	20.07	21.5	0.0
100	16QAM	1	1	19.87	20.46	20.22	21.5	0.0
100	256QAM	1	1	20.02	20.48	20.21	21.5	0.0
Channel				529200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.05	20.47	20.26	21.5	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.85	20.43	20.18	21.5	0.0
Channel				530202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.05	20.56	20.07	21.5	0.0
Channel				525200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.99		
60	QPSK	1	1	19.98	20.53	20.07	21.5	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	20.01	20.42	20.17	21.5	0.0
Channel				530202	518998	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.85	20.46	20.25	21.5	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	20.03	20.55	20.23	21.5	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.91	20.58	20.29	21.5	0.0



### n2 Other PA Ant3 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	14.74	14.85	14.95		
20	PI2 BPSK	1	53	14.80	14.76	14.78	16.3	0.0
20	PI2 BPSK	1	164	14.77	14.79	14.80		
20	PI2 BPSK	50	0	14.91	14.93	14.84	16.3	0.0
20	PI2 BPSK	50	28	14.74	14.82	14.75	16.3	0.0
20	PI2 BPSK	50	58	14.71	14.96	14.75	16.3	0.0
20	PI2 BPSK	100	0	14.75	14.90	14.92		
20	QPSK	1	1	14.92	14.98	14.83		
20	QPSK	1	53	14.72	14.78	14.80	16.3	0.0
20	QPSK	1	104	14.87	14.76	14.88		
20	QPSK	50	0	14.92	14.80	14.90	16.3	0.0
20	QPSK	50	28	14.78	14.96	14.88	16.3	0.0
20	QPSK	50	58	14.91	14.94	14.81	16.3	0.0
20	QPSK	100	0	14.73	14.95	14.90		
20	16QAM	1	1	14.93	14.91	14.87	16.3	0.0
20	16QAM	1	1	14.74	14.97	14.77	16.3	0.0
20	256QAM	1	1	14.73	14.98	14.72	16.3	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.72	14.91	14.84	16.3	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.75	14.84	14.91	16.3	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.77	14.95	14.91	16.3	0.0

### n7 Other PA Ant3 DSI9

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	18.67	18.56	18.67		
40	PI2 BPSK	1	108	18.52	18.56	18.59	19.7	0.0
40	PI2 BPSK	1	214	18.64	18.65	18.51		
40	PI2 BPSK	108	0	18.57	18.69	18.61	19.7	0.0
40	PI2 BPSK	108	54	18.62	18.59	18.49	19.7	0.0
40	PI2 BPSK	108	108	18.67	18.62	18.52	19.7	0.0
40	PI2 BPSK	216	0	18.63	18.70	18.55		
40	QPSK	1	1	18.68	18.73	18.68		
40	QPSK	1	108	18.56	18.62	18.65	19.7	0.0
40	QPSK	1	214	18.64	18.55	18.48		
40	QPSK	108	0	18.67	18.54	18.54	19.7	0.0
40	QPSK	108	54	18.57	18.70	18.57	19.7	0.0
40	QPSK	108	108	18.67	18.57	18.67	19.7	0.0
40	QPSK	216	0	18.65	18.68	18.60		
40	16QAM	1	1	18.58	18.56	18.45	19.7	0.0
40	16QAM	1	1	18.58	18.62	18.51	19.7	0.0
40	256QAM	1	1	18.55	18.52	18.50	19.7	0.0
Channel								
Frequency (MHz)				50200	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.65	18.57	18.57	19.7	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.72	18.53	18.57	19.7	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	18.61	18.71	18.44	19.7	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.56	18.62	18.45	19.7	0.0
Channel								
Frequency (MHz)				2507.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.56	18.62	18.45	19.7	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.55	18.72	18.65	19.7	0.0

### n66 Other PA Ant3 DSI9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	15.08	15.06	14.83		
40	PI2 BPSK	1	108	15.04	15.09	14.92	16.3	0.0
40	PI2 BPSK	1	214	15.05	15.06	14.98		
40	PI2 BPSK	108	0	15.12	15.12	14.80	16.3	0.0
40	PI2 BPSK	108	54	15.06	15.04	14.87	16.3	0.0
40	PI2 BPSK	108	108	15.13	15.02	14.89	16.3	0.0
40	PI2 BPSK	216	0	15.08	15.04	14.80		
40	QPSK	1	1	15.15	15.20	14.98		
40	QPSK	1	108	15.11	15.16	14.85	16.3	0.0
40	QPSK	1	214	15.09	15.08	14.80		
40	QPSK	108	0	15.01	15.16	14.93	16.3	0.0
40	QPSK	108	54	14.98	15.18	14.90	16.3	0.0
40	QPSK	108	108	15.04	15.13	14.78	16.3	0.0
40	QPSK	216	0	15.15	15.17	14.90		
40	16QAM	1	1	15.02	15.11	14.78	16.3	0.0
40	16QAM	1	1	15.13	15.19	14.93	16.3	0.0
40	256QAM	1	1	15.04	15.06	14.87	16.3	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.25	17.45	17.65		
Channel								
Frequency (MHz)				34400	34900	35400	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.04	15.17	14.93	16.3	0.0
Channel								
Frequency (MHz)				343500	349000	349500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.10	15.06	14.81	16.3	0.0
Channel								
Frequency (MHz)				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.99	15.14	14.99	16.3	0.0
Channel								
Frequency (MHz)				342600	349000	353500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.18	15.13	14.93	16.3	0.0



n38 Other PA Ant3 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5189.96	
40	PI/2 BPSK	1	1	18.14	18.23	18.10	
40	PI/2 BPSK	1	53	18.08	18.18	18.22	18.9
40	PI/2 BPSK	1	104	18.12	18.21	18.07	
40	PI/2 BPSK	50	0	18.00	18.11	18.08	18.9
40	PI/2 BPSK	50	28	18.15	18.12	18.28	18.9
40	PI/2 BPSK	50	56	17.96	18.11	18.19	18.9
40	PI/2 BPSK	100	0	18.13	18.21	18.22	
40	QPSK	1	1	18.14	18.27	18.26	
40	QPSK	1	53	18.04	18.12	18.22	18.9
40	QPSK	1	104	18.01	18.25	18.20	
40	QPSK	50	0	17.96	18.16	18.15	18.9
40	QPSK	50	28	18.00	18.28	18.13	18.9
40	QPSK	50	56	18.15	18.06	18.11	18.9
40	QPSK	100	0	18.04	18.25	18.10	
40	16QAM	1	1	17.99	18.19	18.15	18.9
40	16QAM	1	1	18.00	18.18	18.25	18.9
40	256QAM	1	1	18.00	18.23	18.12	18.9
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	17.94	18.13	18.08	18.9
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	18.15	18.24	18.04	18.9
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	17.94	18.11	18.13	18.9
Channel				515004	519000	522996	
Frequency (MHz)				2672.02	2595	2614.98	
10	QPSK	1	1	17.93	18.23	18.10	18.9

n41 Other PA Ant3 DS19							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.00	5189.98	5280.00	
100	PI/2 BPSK	1	1	17.73	17.95	17.87	
100	PI/2 BPSK	1	137	17.91	17.86	17.88	18.9
100	PI/2 BPSK	1	271	17.70	18.03	17.84	
100	PI/2 BPSK	135	0	17.81	17.98	17.91	18.9
100	PI/2 BPSK	135	69	17.72	18.04	17.87	18.9
100	PI/2 BPSK	135	138	17.92	17.95	18.03	18.9
100	PI/2 BPSK	270	0	17.92	17.92	17.90	
100	QPSK	1	1	17.91	18.08	18.05	
100	QPSK	1	137	17.89	17.90	17.92	18.9
100	QPSK	1	271	17.71	17.98	17.97	
100	QPSK	135	0	17.76	17.97	17.88	18.9
100	QPSK	135	69	17.87	18.05	18.02	18.9
100	QPSK	135	138	17.70	18.03	17.92	18.9
100	QPSK	270	0	17.87	18.00	17.87	
100	16QAM	1	1	17.71	18.00	18.01	18.9
100	16QAM	1	1	17.77	17.97	17.86	18.9
100	256QAM	1	1	17.81	18.01	17.95	18.9
Channel				506200	5189.98	5289.98	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	17.70	17.89	17.84	18.9
Channel				507204	5189.98	5299.98	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	17.77	17.80	17.97	18.9
Channel				506202	5189.98	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	17.70	17.90	18.01	18.9
Channel				505200	5189.98	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	17.70	18.02	17.90	18.9
Channel				504204	5189.98	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	17.92	18.01	17.87	18.9
Channel				503202	5189.98	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	17.82	17.99	17.93	18.9
Channel				502200	5189.98	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	17.85	17.82	17.90	18.9
Channel				501204	5189.98	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	17.91	17.89	18.00	18.9





n2 Other PA Ant0 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.30	19.35	19.30			
20	PI2 BPSK	1	53	19.48	19.34	19.26	20.9	0.0	
20	PI2 BPSK	1	104	19.48	19.34	19.16			
20	PI2 BPSK	50	0	19.37	19.37	19.26	20.9	0.0	
20	PI2 BPSK	50	28	19.40	19.46	19.18	20.9	0.0	
20	PI2 BPSK	50	56	19.38	19.32	19.23	20.9	0.0	
20	PI2 BPSK	100	0	19.36	19.48	19.27			
20	QPSK	1	1	19.51	19.33	19.34			
20	QPSK	1	53	19.34	19.42	19.15	20.9	0.0	
20	QPSK	1	104	19.38	19.35	19.25			
20	QPSK	50	0	19.43	19.43	19.28	20.9	0.0	
20	QPSK	50	28	19.37	19.50	19.20	20.9	0.0	
20	QPSK	50	56	19.46	19.46	19.15	20.9	0.0	
20	QPSK	100	0	19.46	19.40	19.26			
20	16QAM	1	1	19.34	19.44	19.22	20.9	0.0	
20	64QAM	1	1	19.42	19.36	19.34	20.9	0.0	
20	256QAM	1	1	19.47	19.40	19.26	20.9	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.32	19.37	19.32	20.9	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.51	19.33	19.24	20.9	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.34	19.43	19.17	20.9	0.0	

n7 Other PA Ant0 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.72	15.91	15.83			
40	PI2 BPSK	1	108	15.76	15.08	15.82	17.2	0.0	
40	PI2 BPSK	1	214	15.76	15.89	15.81			
40	PI2 BPSK	108	0	15.78	15.03	15.81	17.2	0.0	
40	PI2 BPSK	108	54	15.70	15.98	15.82	17.2	0.0	
40	PI2 BPSK	108	108	15.69	15.91	15.83	17.2	0.0	
40	PI2 BPSK	216	0	15.83	15.97	15.85			
40	QPSK	1	1	15.78	15.10	15.03			
40	QPSK	1	108	15.85	15.09	15.85	17.2	0.0	
40	QPSK	1	214	15.84	15.02	15.87			
40	QPSK	108	0	15.81	15.89	15.89	17.2	0.0	
40	QPSK	108	54	15.69	15.07	15.97	17.2	0.0	
40	QPSK	108	108	15.81	15.95	15.81			
40	QPSK	216	0	15.75	15.05	15.81	17.2	0.0	
40	16QAM	1	1	15.83	15.94	15.96	17.2	0.0	
40	64QAM	1	1	15.84	15.96	15.98	17.2	0.0	
40	256QAM	1	1	15.79	15.92	15.96	17.2	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.85	15.02	15.93	17.2	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.75	15.98	15.84	17.2	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.75	15.04	15.89	17.2	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.73	15.93	15.88	17.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.77	15.93	15.80	17.2	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.71	15.91	15.84	17.2	0.0	

n66 Other PA Ant0 DSI10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.37	17.53	17.30			
40	PI2 BPSK	1	108	17.38	17.61	17.45	18.4	0.0	
40	PI2 BPSK	1	214	17.37	17.46	17.45			
40	PI2 BPSK	108	0	17.37	17.48	17.45	18.4	0.0	
40	PI2 BPSK	108	54	17.32	17.53	17.36	18.4	0.0	
40	PI2 BPSK	108	108	17.34	17.45	17.34	18.4	0.0	
40	PI2 BPSK	216	0	17.37	17.50	17.38			
40	QPSK	1	1	17.47	17.50	17.41			
40	QPSK	1	108	17.51	17.51	17.53	18.4	0.0	
40	QPSK	1	214	17.36	17.44	17.41			
40	QPSK	108	0	17.44	17.45	17.44	18.4	0.0	
40	QPSK	108	54	17.35	17.50	17.49	18.4	0.0	
40	QPSK	108	108	17.35	17.49	17.47			
40	QPSK	216	0	17.42	17.46	17.37	18.4	0.0	
40	16QAM	1	1	17.43	17.54	17.35	18.4	0.0	
40	64QAM	1	1	17.51	17.52	17.41	18.4	0.0	
40	256QAM	1	1	17.50	17.51	17.41	18.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.35	17.42	17.32	18.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.43	17.43	17.49	18.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.50	17.55	17.34	18.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.49	17.53	17.40	18.4	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.52	17.53	17.46	18.4	0.0	



n38 Other PA Ant0 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				519304	519350	519396	
40	PI2 BPSK	1	1	15.71	15.64	15.73	
40	PI2 BPSK	1	53	15.59	15.73	15.75	16.9
40	PI2 BPSK	1	104	15.58	15.67	15.64	
40	PI2 BPSK	50	0	15.69	15.65	15.80	16.9
40	PI2 BPSK	50	28	15.69	15.79	15.71	16.9
40	PI2 BPSK	50	56	15.61	15.83	15.78	16.9
40	PI2 BPSK	100	0	15.67	15.80	15.77	
40	QPSK	1	1	15.58	15.85	15.77	
40	QPSK	1	53	15.71	15.65	15.58	16.9
40	QPSK	1	104	15.58	15.75	15.60	
40	QPSK	50	0	15.60	15.79	15.78	16.9
40	QPSK	50	28	15.78	15.60	15.76	16.9
40	QPSK	80	56	15.60	15.62	15.79	16.9
40	QPSK	100	0	15.65	15.78	15.76	
40	16QAM	1	1	15.73	15.64	15.59	16.9
40	16QAM	1	1	15.58	15.64	15.67	16.9
40	256QAM	1	1	15.62	15.69	15.69	16.9
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	15.59	15.76	15.59	16.9
Channel				516000	519000	522000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	15.71	15.73	15.59	16.9
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	15.70	15.68	15.57	16.9
Channel				515004	519000	522998	
Frequency (MHz)				2574.02	2595	2614.98	
10	QPSK	1	1	15.67	15.84	15.78	16.9

n41 Other PA Ant0 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				509200	518998	529000	
100	PI2 BPSK	1	1	15.45	15.65	15.54	
100	PI2 BPSK	1	137	15.36	15.52	15.53	16.9
100	PI2 BPSK	1	271	15.37	15.88	15.49	
100	PI2 BPSK	135	0	15.24	15.87	15.53	16.9
100	PI2 BPSK	135	69	15.44	15.95	15.35	16.9
100	PI2 BPSK	135	138	15.43	15.65	15.37	16.9
100	PI2 BPSK	270	0	15.22	15.94	15.44	
100	QPSK	1	1	15.41	15.98	15.38	
100	QPSK	1	137	15.24	15.88	15.53	16.9
100	QPSK	1	271	15.27	15.80	15.32	
100	QPSK	135	0	15.32	15.76	15.43	16.9
100	QPSK	135	69	15.37	15.81	15.32	16.9
100	QPSK	135	138	15.38	15.75	15.55	16.9
100	QPSK	270	0	15.41	15.78	15.48	
100	16QAM	1	1	15.22	15.87	15.51	16.9
100	16QAM	1	1	15.24	15.79	15.44	16.9
100	256QAM	1	1	15.32	15.89	15.53	16.9
Channel				508200	518998	528998	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	15.38	15.81	15.51	16.9
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	15.40	15.85	15.46	16.9
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	15.26	15.90	15.32	16.9
Channel				505200	518998	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	15.40	15.80	15.49	16.9
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	15.39	15.83	15.31	16.9
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	15.23	15.91	15.45	16.9
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	15.35	15.79	15.47	16.9
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	15.41	15.92	15.47	16.9



### n2 Other PA Ant1 DSI10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	11.60	11.57	11.38		
20	PI2 BPSK	1	53	11.55	11.57	11.46	12.6	0.0
20	PI2 BPSK	1	164	11.59	11.66	11.37		
20	PI2 BPSK	50	0	11.48	11.44	11.52	12.6	0.0
20	PI2 BPSK	50	28	11.51	11.64	11.40	12.6	0.0
20	PI2 BPSK	50	58	11.63	11.63	11.57	12.6	0.0
20	PI2 BPSK	100	0	11.61	11.57	11.49		
20	QPSK	1	1	11.53	11.67	11.46		
20	QPSK	1	53	11.50	11.50	11.58	12.6	0.0
20	QPSK	1	104	11.66	11.45	11.41		
20	QPSK	50	0	11.53	11.57	11.46	12.6	0.0
20	QPSK	50	28	11.47	11.63	11.55	12.6	0.0
20	QPSK	50	58	11.47	11.57	11.50		
20	QPSK	100	0	11.46	11.60	11.57	12.6	0.0
20	16QAM	1	1	11.43	11.49	11.52	12.6	0.0
20	16QAM	1	1	11.65	11.57	11.56	12.6	0.0
20	256QAM	1	1	11.66	11.53	11.40	12.6	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	11.55	11.47	11.37	12.6	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	11.54	11.57	11.51	12.6	0.0
Channel								
Frequency (MHz)				375000	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	11.64	11.57	11.60	12.6	0.0

### n7 Other PA Ant1 DSI10

BW [MHz]	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)				2620	2635	2650		
40	PI2 BPSK	1	1	15.12	15.23	15.08		
40	PI2 BPSK	1	108	15.18	15.26	15.12	16.2	0.0
40	PI2 BPSK	1	214	15.14	15.21	15.19		
40	PI2 BPSK	108	0	15.25	15.35	15.19	16.2	0.0
40	PI2 BPSK	108	54	15.12	15.26	15.06	16.2	0.0
40	PI2 BPSK	108	108	15.23	15.18	15.21	16.2	0.0
40	PI2 BPSK	216	0	15.15	15.31	15.16		
40	QPSK	1	1	15.26	15.38	15.28		
40	QPSK	1	108	15.28	15.31	15.14	16.2	0.0
40	QPSK	1	214	15.08	15.26	15.10		
40	QPSK	108	0	15.27	15.31	15.15	16.2	0.0
40	QPSK	108	54	15.19	15.38	15.14	16.2	0.0
40	QPSK	108	108	15.19	15.25	15.06		
40	QPSK	216	0	15.23	15.37	15.20	16.2	0.0
40	16QAM	1	1	15.18	15.27	15.22	16.2	0.0
40	16QAM	1	1	15.19	15.32	15.19	16.2	0.0
40	256QAM	1	1	15.07	15.30	15.12	16.2	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.25	15.22	15.22	16.2	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.25	15.33	15.23	16.2	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	15.14	15.25	15.21	16.2	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.16	15.17	15.13	16.2	0.0
Channel								
Frequency (MHz)				2507.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.16	15.17	15.13	16.2	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.27	15.38	15.19	16.2	0.0

### n66 Other PA Ant1 DSI10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	9.31	9.37	9.27		
40	PI2 BPSK	1	108	9.23	9.44	9.20	10.3	0.0
40	PI2 BPSK	1	214	9.24	9.47	9.42		
40	PI2 BPSK	108	0	9.16	9.40	9.39	10.3	0.0
40	PI2 BPSK	108	54	9.32	9.53	9.41	10.3	0.0
40	PI2 BPSK	108	108	9.16	9.42	9.26	10.3	0.0
40	PI2 BPSK	216	0	9.18	9.41	9.30		
40	QPSK	1	1	9.38	9.55	9.42		
40	QPSK	1	108	9.19	9.43	9.34	10.3	0.0
40	QPSK	1	214	9.23	9.51	9.25		
40	QPSK	108	0	9.21	9.41	9.29	10.3	0.0
40	QPSK	108	54	9.32	9.49	9.36	10.3	0.0
40	QPSK	108	108	9.30	9.45	9.37		
40	QPSK	216	0	9.26	9.43	9.33	10.3	0.0
40	16QAM	1	1	9.28	9.46	9.33	10.3	0.0
40	16QAM	1	1	9.39	9.39	9.32	10.3	0.0
40	256QAM	1	1	9.39	9.40	9.21	10.3	0.0
Channel								
Frequency (MHz)				345000	345000	350000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	9.17	9.34	9.31	10.3	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	9.22	9.34	9.24	10.3	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	9.19	9.48	9.36	10.3	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	9.24	9.54	9.39	10.3	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	9.38	9.34	9.44	10.3	0.0



n38 Other PA Ant1 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5189.96	
40	PI/2 BPSK	1	1	14.47	14.67	14.32	
40	PI/2 BPSK	1	53	14.51	14.45	14.42	15.7
40	PI/2 BPSK	1	104	14.52	14.56	14.39	0.0
40	PI/2 BPSK	50	0	14.59	14.59	14.39	15.7
40	PI/2 BPSK	50	28	14.56	14.67	14.45	15.7
40	PI/2 BPSK	50	56	14.62	14.45	14.45	15.7
40	PI/2 BPSK	100	0	14.53	14.48	14.37	0.0
40	QPSK	1	1	14.52	14.69	14.43	
40	QPSK	1	53	14.54	14.53	14.52	15.7
40	QPSK	1	104	14.45	14.57	14.47	0.0
40	QPSK	50	0	14.48	14.60	14.49	15.7
40	QPSK	50	28	14.46	14.67	14.38	15.7
40	QPSK	80	56	14.62	14.52	14.52	15.7
40	QPSK	100	0	14.60	14.62	14.50	0.0
40	16QAM	1	1	14.57	14.46	14.46	15.7
40	16QAM	1	1	14.56	14.59	14.47	15.7
40	256QAM	1	1	14.61	14.60	14.49	15.7
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	14.60	14.50	14.50	15.7
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	14.46	14.45	14.44	15.7
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	14.48	14.48	14.43	15.7
Channel				515004	519000	522996	
Frequency (MHz)				2572.02	2595	2614.98	
10	QPSK	1	1	14.42	14.52	14.47	15.7

n41 Other PA Ant1 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.02	5185.98	5280.00	
100	PI/2 BPSK	1	1	14.42	14.68	14.45	
100	PI/2 BPSK	1	137	14.43	14.72	14.55	15.7
100	PI/2 BPSK	1	271	14.41	14.70	14.46	0.0
100	PI/2 BPSK	135	0	14.51	14.57	14.53	15.7
100	PI/2 BPSK	135	69	14.51	14.68	14.41	15.7
100	PI/2 BPSK	135	138	14.43	14.54	14.54	15.7
100	PI/2 BPSK	270	0	14.51	14.72	14.34	0.0
100	QPSK	1	1	14.45	14.75	14.35	
100	QPSK	1	137	14.34	14.58	14.52	15.7
100	QPSK	1	271	14.35	14.71	14.38	0.0
100	QPSK	135	0	14.48	14.64	14.45	15.7
100	QPSK	135	69	14.31	14.75	14.41	15.7
100	QPSK	185	138	14.32	14.61	14.43	0.0
100	QPSK	270	0	14.37	14.72	14.58	15.7
100	16QAM	1	1	14.44	14.63	14.57	15.7
100	16QAM	1	1	14.31	14.64	14.35	15.7
100	256QAM	1	1	14.39	14.70	14.48	15.7
Channel				5060.00	5185.98	5289.98	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	14.52	14.66	14.34	15.7
Channel				507204	518598	529988	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	14.30	14.61	14.52	15.7
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	14.45	14.68	14.40	15.7
Channel				505200	518598	531998	
Frequency (MHz)				2526	2592.99	2659.99	
60	QPSK	1	1	14.33	14.53	14.45	15.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	14.33	14.53	14.56	15.7
Channel				503202	518598	533998	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	14.36	14.56	14.39	15.7
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	14.42	14.53	14.39	15.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	14.38	14.73	14.46	15.7



### n2 Other PA Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.23	21.37	21.21		
20	PI2 BPSK	1	53	21.17	21.25	21.14	23.0	0.0
20	PI2 BPSK	1	104	21.13	21.21	21.09	23.0	0.0
20	PI2 BPSK	50	0	21.03	21.21	21.08	23.0	0.0
20	PI2 BPSK	50	28	21.09	21.22	21.21	23.0	0.0
20	PI2 BPSK	50	56	21.07	21.21	21.22	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.25	21.10		
20	QPSK	1	1	21.37	21.40	21.31		
20	QPSK	1	53	21.22	21.23	21.04	23.0	0.0
20	QPSK	1	104	21.02	21.19	21.11		
20	QPSK	50	0	21.12	21.31	21.30	23.0	0.0
20	QPSK	50	28	21.23	21.32	21.24	23.0	0.0
20	QPSK	50	56	21.19	21.19	21.01	23.0	0.0
20	QPSK	100	0	21.13	21.27	21.21		
20	16QAM	1	1	21.26	21.36	21.25	23.0	0.0
20	64QAM	1	1	20.09	20.01	20.08	22.0	1.0
20	256QAM	1	1	18.34	18.36	18.37	20.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dB)	MPR (dB)
Channel				1867.5	1880	1902.5		
15	QPSK	1	1	21.20	21.27	21.13	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
Channel				1925	1930	1935		
10	QPSK	1	1	21.26	21.29	21.14	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dB)	MPR (dB)
Channel				1862.5	1880	1907.5		
5	QPSK	1	1	21.16	21.33	21.24	23.0	0.0

### n7 Other PA Ant2 DSI10

BW (MHz)	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)				504000	507000	510000		
40	PI2 BPSK	1	1	19.28	19.52	19.59		
40	PI2 BPSK	1	108	19.33	19.59	19.55	20.6	0.0
40	PI2 BPSK	1	216	19.39	19.44	19.55	20.6	0.0
40	PI2 BPSK	108	0	19.24	19.84	19.54	20.6	0.0
40	PI2 BPSK	108	54	19.25	19.63	19.60	20.6	0.0
40	PI2 BPSK	108	108	19.25	19.48	19.38	20.6	0.0
40	PI2 BPSK	216	0	19.29	19.54	19.45		
40	QPSK	1	1	19.37	19.05	19.40		
40	QPSK	1	108	19.25	19.51	19.56	20.6	0.0
40	QPSK	1	214	19.26	19.59	19.41		
40	QPSK	108	0	19.34	19.46	19.47	20.6	0.0
40	QPSK	108	54	19.23	19.59	19.50	20.6	0.0
40	QPSK	108	108	19.39	19.50	19.41	20.6	0.0
40	QPSK	216	0	19.24	19.57	19.51		
40	16QAM	1	1	19.27	19.44	19.53	20.6	0.0
40	64QAM	1	1	19.26	19.49	19.41	20.6	0.0
40	256QAM	1	1	19.26	19.54	19.58	20.6	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
Channel				2515	2535	2555		
30	QPSK	1	1	19.25	19.53	19.41	20.6	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
Channel				2517.5	2535	2557.5		
25	QPSK	1	1	19.39	19.51	19.40	20.6	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Channel				2510	2535	2560		
20	PI2 BPSK	1	1	19.29	19.48	19.42	20.6	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Channel				2507.5	2535	2562.5		
15	QPSK	1	1	19.26	19.53	19.56	20.6	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Channel				2505	2535	2565		
10	QPSK	1	1	19.22	19.59	19.59	20.6	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Channel				2502.5	2535	2567.5		
5	QPSK	1	1	19.36	19.58	19.54	20.6	0.0

### n66 Other PA Ant2 DSI10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				346000	349000	352000		
40	PI2 BPSK	1	1	18.15	18.07	17.95		
40	PI2 BPSK	1	108	18.01	18.10	18.01	19.5	0.0
40	PI2 BPSK	1	214	18.16	18.07	17.98		
40	PI2 BPSK	108	0	17.96	18.12	18.01	19.5	0.0
40	PI2 BPSK	108	54	17.97	18.07	17.93	19.5	0.0
40	PI2 BPSK	108	108	18.15	18.15	18.14	19.5	0.0
40	PI2 BPSK	216	0	18.07	18.13	18.11		
40	QPSK	1	1	18.03	18.25	18.14		
40	QPSK	1	108	18.06	18.16	18.00	19.5	0.0
40	QPSK	1	214	18.17	18.05	18.03		
40	QPSK	108	0	18.02	18.21	18.06	19.5	0.0
40	QPSK	108	54	17.97	18.23	18.02	19.5	0.0
40	QPSK	108	108	17.95	18.14	17.92	19.5	0.0
40	QPSK	216	0	18.06	18.12	17.94		
40	16QAM	1	1	18.17	18.16	18.04	19.5	0.0
40	64QAM	1	1	18.08	18.07	17.95	19.5	0.0
40	256QAM	1	1	18.09	18.20	18.14	19.5	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dB)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	18.13	18.11	18.11	19.5	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dB)	MPR (dB)
Channel				1720	1745	1770		
20	QPSK	1	1	18.16	18.01	18.09	19.5	0.0
Channel								
Frequency (MHz)				343000	349000	354500	Tune-up limit (dB)	MPR (dB)
Channel				1717.5	1745	1772.5		
15	QPSK	1	1	18.03	18.10	18.04	19.5	0.0
Channel								
Frequency (MHz)				342000	349000	355000	Tune-up limit (dB)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	18.05	18.04	17.93	19.5	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dB)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	18.03	18.19	18.01	19.5	0.0



n38 Other PA Ant2 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5195.00	5199.96	
40	PI/2 BPSK	1	1	18.49	18.45	18.52	
40	PI/2 BPSK	1	53	18.40	18.60	18.53	20.0
40	PI/2 BPSK	1	104	18.46	18.52	18.36	
40	PI/2 BPSK	50	0	18.35	18.58	18.43	20.0
40	PI/2 BPSK	50	28	18.35	18.55	18.50	20.0
40	PI/2 BPSK	50	56	18.53	18.46	18.58	20.0
40	PI/2 BPSK	100	0	18.46	18.55	18.48	
40	QPSK	1	1	18.54	18.64	18.60	
40	QPSK	1	53	18.41	18.54	18.41	20.0
40	QPSK	1	104	18.46	18.50	18.40	
40	QPSK	50	0	18.48	18.44	18.52	20.0
40	QPSK	50	28	18.54	18.58	18.54	20.0
40	QPSK	80	56	18.40	18.45	18.52	20.0
40	QPSK	100	0	18.42	18.53	18.40	
40	16QAM	1	1	18.55	18.44	18.37	20.0
40	16QAM	1	1	18.37	18.46	18.47	20.0
40	256QAM	1	1	18.24	18.23	18.02	19.5
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	18.33	18.44	18.54	20.0
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	18.44	18.49	18.44	20.0
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	18.42	18.49	18.38	20.0
Channel				515004	519000	522996	
Frequency (MHz)				2572.02	2595	2614.98	
10	QPSK	1	1	18.56	18.56	18.49	20.0

n41 Other PA Ant2 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.00	5185.98	5280.00	
100	PI/2 BPSK	1	1	18.49	18.96	18.73	
100	PI/2 BPSK	1	137	18.37	18.63	18.66	20.0
100	PI/2 BPSK	1	271	18.35	18.90	18.83	
100	PI/2 BPSK	135	0	18.36	18.99	18.81	20.0
100	PI/2 BPSK	135	69	18.31	18.82	18.67	20.0
100	PI/2 BPSK	135	138	18.44	18.90	18.75	20.0
100	PI/2 BPSK	270	0	18.41	18.96	18.80	
100	QPSK	1	1	18.36	19.02	18.76	
100	QPSK	1	137	18.47	18.93	18.80	20.0
100	QPSK	1	271	18.27	18.78	18.67	
100	QPSK	135	0	18.28	18.80	18.72	20.0
100	QPSK	135	69	18.44	18.91	18.70	20.0
100	QPSK	135	138	18.40	18.82	18.77	
100	QPSK	270	0	18.38	18.99	18.70	20.0
100	16QAM	1	1	18.33	19.01	18.77	20.0
100	16QAM	1	1	18.29	18.99	18.81	20.0
100	256QAM	1	1	18.37	18.87	18.77	20.0
Channel				5080.00	5185.98	5289.98	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	18.41	18.92	18.84	20.0
Channel				507204	518598	529988	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	18.36	18.82	18.71	20.0
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	18.34	18.99	18.65	20.0
Channel				505200	518598	531996	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	18.32	18.97	18.86	20.0
Channel				504204	518598	532988	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	18.44	18.82	18.69	20.0
Channel				503202	518598	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	18.41	18.79	18.67	20.0
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	18.45	18.99	18.93	20.0
Channel				501204	518598	535988	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	18.39	18.80	18.77	20.0



### n2 Other PA Ant3 DSI10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	16.09	16.70	16.68		
20	PI2 BPSK	1	53	16.84	16.73	16.66	17.9	0.0
20	PI2 BPSK	1	104	16.81	16.82	16.87		
20	PI2 BPSK	50	0	16.71	16.70	16.66	17.9	0.0
20	PI2 BPSK	50	28	16.71	16.76	16.80	17.9	0.0
20	PI2 BPSK	50	58	16.79	16.82	16.66	17.9	0.0
20	PI2 BPSK	100	0	16.76	16.80	16.86		
20	QPSK	1	1	16.75	16.86	16.84		
20	QPSK	1	53	16.79	16.85	16.70	17.9	0.0
20	QPSK	1	104	16.73	16.74	16.82		
20	QPSK	50	0	16.67	16.70	16.78	17.9	0.0
20	QPSK	50	28	16.78	16.87	16.79	17.9	0.0
20	QPSK	50	58	16.85	16.73	16.77	17.9	0.0
20	QPSK	100	0	16.78	16.83	16.74		
20	16QAM	1	1	16.74	16.80	16.74	17.9	0.0
20	16QAM	1	1	16.70	16.81	16.74	17.9	0.0
20	256QAM	1	1	16.73	16.81	16.79	17.9	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.71	16.76	16.74	17.9	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.74	16.80	16.85	17.9	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.87	16.76	16.82	17.9	0.0

### n7 Other PA Ant3 DSI10

BW (MHz)	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)				2520	2535	2550		
40	PI2 BPSK	1	1	16.96	17.19	17.02		
40	PI2 BPSK	1	108	17.07	17.20	17.05	18.7	0.0
40	PI2 BPSK	1	214	17.12	17.09	17.20		
40	PI2 BPSK	108	0	17.12	17.09	17.10	18.7	0.0
40	PI2 BPSK	108	54	17.09	17.06	17.12	18.7	0.0
40	PI2 BPSK	108	108	17.16	17.09	16.98	18.7	0.0
40	PI2 BPSK	216	0	16.97	17.16	17.14		
40	QPSK	1	1	17.17	17.21	17.14		
40	QPSK	1	108	17.06	17.15	16.98	18.7	0.0
40	QPSK	1	214	16.94	17.06	17.13		
40	QPSK	108	0	17.14	17.03	17.00	18.7	0.0
40	QPSK	108	54	17.11	17.17	17.12	18.7	0.0
40	QPSK	108	108	17.07	17.14	17.00	18.7	0.0
40	QPSK	216	0	17.00	17.15	17.14		
40	16QAM	1	1	16.95	17.14	17.11	18.7	0.0
40	16QAM	1	1	17.16	17.17	17.06	18.7	0.0
40	256QAM	1	1	17.07	17.08	17.16	18.7	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.98	17.08	17.17	18.7	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	17.01	17.03	17.11	18.7	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	17.17	17.13	17.03	18.7	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.10	17.06	17.03	18.7	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.98	17.11	17.16	18.7	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.11	17.02	17.17	18.7	0.0

### n66 Other PA Ant3 DSI10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	16.71	16.86	16.87		
40	PI2 BPSK	1	108	16.68	16.74	16.74	17.7	0.0
40	PI2 BPSK	1	214	16.82	16.90	16.68		
40	PI2 BPSK	108	0	16.78	16.86	16.83	17.7	0.0
40	PI2 BPSK	108	54	16.71	16.76	16.67	17.7	0.0
40	PI2 BPSK	108	108	16.67	16.81	16.69	17.7	0.0
40	PI2 BPSK	216	0	16.77	16.86	16.90		
40	QPSK	1	1	16.86	16.92	16.86		
40	QPSK	1	108	16.85	16.89	16.71	17.7	0.0
40	QPSK	1	214	16.83	16.84	16.89		
40	QPSK	108	0	16.83	16.81	16.79	17.7	0.0
40	QPSK	108	54	16.86	16.88	16.81	17.7	0.0
40	QPSK	108	108	16.89	16.83	16.87	17.7	0.0
40	QPSK	216	0	16.70	16.94	16.83		
40	16QAM	1	1	16.85	16.76	16.90	17.7	0.0
40	16QAM	1	1	16.74	16.85	16.69	17.7	0.0
40	256QAM	1	1	16.68	16.79	16.78	17.7	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.71	16.88	16.71	17.7	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.00	17.45	17.70	17.7	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.79	17.45	17.72.5	17.7	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.66	16.73	16.79	17.7	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.12.5	17.45	17.77.5	17.7	0.0



n38 Other PA Ant3 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				18.14	18.23	18.10	
40	PI/2 BPSK	1	1	18.14	18.23	18.10	
40	PI/2 BPSK	1	53	18.08	18.18	18.22	19.0
40	PI/2 BPSK	1	104	18.12	18.21	18.07	
40	PI/2 BPSK	50	0	18.03	18.11	18.08	19.0
40	PI/2 BPSK	50	28	18.15	18.12	18.28	19.0
40	PI/2 BPSK	50	56	17.96	18.11	18.19	19.0
40	PI/2 BPSK	100	0	18.13	18.21	18.22	
40	QPSK	1	1	18.14	18.27	18.26	
40	QPSK	1	53	18.04	18.12	18.22	19.0
40	QPSK	1	104	18.01	18.25	18.20	
40	QPSK	50	0	17.96	18.16	18.15	19.0
40	QPSK	50	28	18.00	18.28	18.13	19.0
40	QPSK	80	56	18.15	18.06	18.11	19.0
40	QPSK	100	0	18.04	18.25	18.10	
40	16QAM	1	1	17.99	18.19	18.15	19.0
40	16QAM	1	1	18.00	18.18	18.25	19.0
40	256QAM	1	1	18.00	18.23	18.12	19.0
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	17.94	18.13	18.08	19.0
Channel				516000	519000	520000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	18.15	18.24	18.04	19.0
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	17.94	18.11	18.13	19.0
Channel				515004	519000	520998	
Frequency (MHz)				2675.02	2595	2614.98	
10	QPSK	1	1	17.93	18.23	18.10	19.0

n41 Other PA Ant3 DSI10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				5262.02	5189.98	5292.00	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.73	17.95	17.87	
100	PI/2 BPSK	1	137	17.91	17.86	17.88	19.0
100	PI/2 BPSK	1	271	17.70	18.03	17.84	
100	PI/2 BPSK	135	0	17.81	17.98	17.91	19.0
100	PI/2 BPSK	135	69	17.72	18.04	17.87	19.0
100	PI/2 BPSK	135	138	17.92	17.95	18.03	19.0
100	PI/2 BPSK	270	0	17.92	17.92	17.90	
100	QPSK	1	1	17.91	18.08	18.05	
100	QPSK	1	137	17.89	17.90	17.92	19.0
100	QPSK	1	271	17.71	17.98	17.97	
100	QPSK	135	0	17.76	17.97	17.88	19.0
100	QPSK	135	69	17.87	18.05	18.02	19.0
100	QPSK	135	138	17.70	18.03	17.92	
100	QPSK	270	0	17.87	18.00	17.87	19.0
100	16QAM	1	1	17.71	18.02	18.01	19.0
100	16QAM	1	1	17.77	17.97	17.86	19.0
100	256QAM	1	1	17.81	18.01	17.95	19.0
Channel				5062.00	5189.98	5209.98	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	17.70	17.89	17.84	19.0
Channel				507204	5189.98	5209.98	
Frequency (MHz)				2538.02	2592.99	2649.99	
80	QPSK	1	1	17.77	17.80	17.97	19.0
Channel				506202	5189.98	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	17.70	17.90	18.01	19.0
Channel				505200	5189.98	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	17.70	18.02	17.90	19.0
Channel				504204	5189.98	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	17.92	18.01	17.87	19.0
Channel				503202	5189.98	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	17.82	17.99	17.93	19.0
Channel				502200	5189.98	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	17.85	17.82	17.90	19.0
Channel				501204	5189.98	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	17.91	17.89	18.00	19.0







Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Head Station		Head DBS only		Head non DBS		Body-on-Station		Body-on-Station (Priority)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Daily Cycle %									
					Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit		Average power (dBm)	Time-Up Limit							
802.11a WLAN	1	2412	21.13	20.00	16.75	18.00	14.83	16.00	11.72	13.00	8.64	10.00	16.60	20.00	16.16	17.50	13.19	14.50	16.32	11.50	14.16	15.50	19.18	13.50	15.13	22.00	19.66	21.00	17.17	18.50	14.18	15.50	100	
		2412	21.11	22.00	16.66	18.00	15.50	16.00	11.68	13.00	8.41	10.00	16.60	20.00	16.06	17.50	13.14	14.50	16.07	11.50	14.15	15.50	12.18	13.50	21.11	22.00	19.64	21.00	11.19	18.50	14.18	15.50	100	
802.11g WLAN	1	2412	18.39	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	99.91
		2437	18.21	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100
802.11n WLAN	1	2412	18.13	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100
		2437	18.24	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100
802.11a WLAN	1	2412	18.39	18.50	16.50	18.00	14.62	16.00	11.60	13.00	8.59	10.00	16.21	19.50	16.15	17.50	13.16	14.50	16.08	11.50	14.15	15.50	12.16	13.50	18.24	19.50	18.21	19.50	17.14	18.50	14.18	15.50	100	
		2437	18.19	18.50	16.59	18.00	14.55	16.00	11.62	13.00	8.53	10.00	17.19	19.50	16.21	17.50	13.08	14.50	16.04	11.50	14.09	15.50	12.08	13.50	18.19	19.50	18.19	19.50	17.09	18.50	14.09	15.50	100	
802.11a WLAN	9	2432	17.10	18.50	16.85	18.00	14.81	16.00	11.46	13.00	8.58	10.00	17.19	18.50	16.02	17.50	13.14	14.50	16.08	11.50	14.09	15.50	12.13	13.50	17.19	18.50	17.19	18.50	17.18	18.50	14.09	15.50	100	
		2412	18.30	18.50	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100	
802.11a WLAN	11	2437	18.30	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100
		2422	18.30	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100
802.11a WLAN	8	2437	18.27	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100
		2422	18.27	18.50	Not Required	Not Required	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	100

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Head Station		Head DBS only		Head non DBS		Body-on-Station		Body-on-Station (Priority)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Body-on-Station (non DBS)		Daily Cycle %									
					Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit		Average power (dBm)	Time-Up Limit							
802.11a WLAN	36	5180	17.74	18.00	17.50	18.00	15.50	17.74	18.00	15.50	17.50	15.50	17.50	15.50	17.50	13.50	15.00	15.00	15.00	13.00	17.74	18.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	99.97	
		5200	18.22	18.50	17.50	18.00	15.50	18.22	18.50	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.22	18.50	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100	
802.11n WLAN	44	5200	18.29	20.00	17.50	18.00	15.50	18.29	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.29	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100	
		5240	17.98	20.00	17.50	18.00	15.50	17.98	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	17.98	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100	
802.11a WLAN	40	5200	18.36	20.00	17.50	18.00	15.50	18.36	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.36	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100	
		5240	18.26	20.00	17.50	18.00	15.50	18.26	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.26	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100	
802.11a WLAN	36	5180	18.84	18.50	Not Required	Not Required	18.00	18.84	18.50	18.00	18.50	18.00	18.50	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.84	18.50	18.00	18.50	18.50	18.50	18.50	18.50	18.50	18.50	18.50	18.50	100
		5200	18.96	20.00	17.50	18.00	15.50	18.96	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.96	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
802.11a WLAN	44	5200	18.36	20.00	17.50	18.00	15.50	18.36	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.36	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
		5240	18.29	21.00	17.50	18.00	15.50	18.29	21.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.29	21.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
802.11a WLAN	48	5240	18.36	20.00	17.50	18.00	15.50	18.36	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.36	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
		5280	18.29	21.00	17.50	18.00	15.50	18.29	21.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.29	21.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
802.11a WLAN	36	5180	17.97	18.50	17.50	18.00	15.50	17.97	18.50	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	17.97	18.50	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
		5200	18.99	20.00	17.50	18.00	15.50	18.99	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.99	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
802.11a WLAN	42	5210	18.83	18.50	16.12	17.50	15.18	18.83	18.50	15.12	15.50	15.83	18.00	18.00	15.16	15.50	12.19	13.50	13.02	15.00	11.94	13.50	16.83	18.00	18.00	14.72	18.50	18.50	18.50	18.50	18.50	18.50	100	
		5200	18.96	20.00	17.50	18.00	15.50	18.96	20.00	15.50	18.00	15.50	18.00	15.50	18.00	13.50	15.00	15.00	15.00	13.00	18.96	20.00	15.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	100
802.11a WLAN	44	5200	18.31	20.00	17.50	18.00	15.50	18.31	20.00																									





BR / EDR		Ant 4		Average power (dBm)			Time-up Limit (Min)
Mode	Channel	Frequency (MHz)	10Mbps	20Mbps	35Mbps		
BR / EDR	CH00	2402	16.59	16.00	16.39	17.50	
	CH10	2441	17.51	17.41	17.38	18.50	
	CH15	2450	16.13	16.74	16.03	17.50	

BLE 1M		Average power (dBm)		Time-up Limit (Min)
Mode	Channel	Frequency (MHz)		
LE	CH00	2402	7.71	8.50
	CH10	2440	8.15	8.50
	CH15	2450	8.98	8.00

BLE 2M		Average power (dBm)		Time-up Limit (Min)
Mode	Channel	Frequency (MHz)		
LE	CH00	2402	7.81	8.50
	CH10	2440	8.28	8.50
	CH15	2450	8.70	8.00

BR / EDR		Ant 4		Average power (dBm)			Time-up Limit (Min)
Mode	Channel	Frequency (MHz)	10Mbps	20Mbps	35Mbps		
BR / EDR	CH00	2402	7.13	7.01	6.91	8.50	
	CH10	2441	7.81	7.84	7.78	8.50	
	CH15	2450	6.56	6.40	6.32	7.50	

BR / EDR		Ant 8		Average power (dBm)			Time-up Limit (Min)
Mode	Channel	Frequency (MHz)	10Mbps	20Mbps	35Mbps		
BR / EDR	CH00	2402	16.48	16.41	16.36	17.50	
	CH10	2441	16.24	16.20	16.15	17.50	
	CH15	2450	14.50	14.10	14.01	15.50	

BLE 1M		Average power (dBm)		Time-up Limit (Min)
Mode	Channel	Frequency (MHz)		
LE	CH00	2402	8.15	8.50
	CH10	2440	7.00	8.50
	CH15	2450	8.98	7.50

BLE 2M		Average power (dBm)		Time-up Limit (Min)
Mode	Channel	Frequency (MHz)		
LE	CH00	2402	8.05	8.50
	CH10	2440	8.98	8.50
	CH15	2450	5.50	7.50

BR / EDR		Ant 8		Average power (dBm)			Time-up Limit (Min)
Mode	Channel	Frequency (MHz)	10Mbps	20Mbps	35Mbps		
BR / EDR	CH00	2402	7.43	7.34	7.20	8.50	
	CH10	2441	8.70	8.61	8.61	7.50	
	CH15	2450	5.09	4.98	4.89	8.50	