



Part270 n77 Main PA Ant 1

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.75	16.73	16.70	18.2	0.0
100	PI2 BPSK	1	137	16.68	16.70	16.77	18.2	0.0
100	PI2 BPSK	1	271	16.69	16.81	16.70	18.2	0.0
100	PI2 BPSK	135	0	16.61	16.79	16.74	18.2	0.0
100	PI2 BPSK	135	69	16.71	16.69	16.74	18.2	0.0
100	PI2 BPSK	135	133	16.63	16.65	16.72	18.2	0.0
100	PI2 BPSK	270	0	16.59	16.73	16.81	18.2	0.0
100	QPSK	1	1	16.76	16.67	16.80	18.2	0.0
100	QPSK	1	137	16.68	16.74	16.70	18.2	0.0
100	QPSK	1	271	16.76	16.73	16.78	18.2	0.0
100	QPSK	135	0	16.72	16.71	16.66	18.2	0.0
100	QPSK	135	69	16.72	16.81	16.71	18.2	0.0
100	QPSK	135	138	16.72	16.70	16.64	18.2	0.0
100	QPSK	270	0	16.63	16.77	16.72	18.2	0.0
100	16QAM	1	1	16.61	16.76	16.77	18.2	0.0
100	64QAM	1	1	16.76	16.73	16.71	18.2	0.0
100	256QAM	1	1	16.72	16.74	16.65	18.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.24	16.27	16.26	18.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.23	16.31	16.21	18.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.23	16.30	16.25	18.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.25	16.31	16.22	18.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.25	16.32	16.21	18.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.24	16.31	16.25	18.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.24	16.30	16.22	18.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.21	16.31	16.24	18.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.25	16.31	16.28	18.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.24	16.29	16.23	18.2	0.0

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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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.69	16.75	16.59	21.2	0.0
100	PI2 BPSK	1	137	16.69	16.80	16.76	21.2	0.0
100	PI2 BPSK	1	271	16.68	16.73	16.66	21.2	0.0
100	PI2 BPSK	135	0	16.71	16.79	16.80	21.2	0.0
100	PI2 BPSK	135	69	16.67	16.74	16.71	21.2	0.0
100	PI2 BPSK	135	133	16.63	16.70	16.66	21.2	0.0
100	PI2 BPSK	270	0	16.66	16.76	16.83	21.2	0.0
100	QPSK	1	1	16.76	16.90	16.75	21.2	0.0
100	QPSK	1	137	16.70	16.62	16.76	21.2	0.0
100	QPSK	1	271	16.67	16.67	16.74	21.2	0.0
100	QPSK	135	0	16.73	16.71	16.67	21.2	0.0
100	QPSK	135	69	16.74	16.84	16.75	21.2	0.0
100	QPSK	135	138	16.69	16.76	16.72	21.2	0.0
100	QPSK	270	0	16.66	16.84	16.66	21.2	0.0
100	16QAM	1	1	16.67	16.80	16.68	21.2	0.0
100	64QAM	1	1	16.76	16.74	16.73	21.2	0.0
100	256QAM	1	1	16.71	16.66	16.84	21.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.71	16.83	16.61	21.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.71	16.62	16.72	21.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.66	16.70	16.65	21.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.65	16.67	16.69	21.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.74	16.84	16.71	21.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.71	16.69	16.67	21.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.67	16.63	16.62	21.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.69	16.62	16.66	21.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.67	16.61	16.71	21.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.74	16.67	16.65	21.2	0.0

Part27Q n77 Main PA Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.90	16.90	16.90	18.2	0.0
100	PI2 BPSK	1	137	17.05	16.90	16.90	18.2	0.0
100	PI2 BPSK	1	271	16.91	16.91	16.91	18.2	0.0
100	PI2 BPSK	135	0	16.87	16.90	16.90	18.2	0.0
100	PI2 BPSK	135	69	16.88	16.88	16.88	18.2	0.0
100	PI2 BPSK	135	133	16.84	16.84	16.84	18.2	0.0
100	PI2 BPSK	270	0	17.00	16.90	16.90	18.2	0.0
100	QPSK	1	1	17.08	16.90	16.90	18.2	0.0
100	QPSK	1	137	16.89	16.89	16.89	18.2	0.0
100	QPSK	1	271	16.88	16.88	16.88	18.2	0.0
100	QPSK	135	0	16.88	16.88	16.88	18.2	0.0
100	QPSK	135	69	16.88	16.88	16.88	18.2	0.0
100	QPSK	135	138	16.88	16.88	16.88	18.2	0.0
100	QPSK	270	0	16.89	16.89	16.89	18.2	0.0
100	16QAM	1	1	17.05	16.90	16.90	18.2	0.0
100	64QAM	1	1	16.89	16.89	16.89	18.2	0.0
100	256QAM	1	1	16.92	16.92	16.92	18.2	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.86	17.00	16.91	18.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.83	17.01	16.90	18.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.85	16.90	16.94	18.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.86	16.93	16.90	18.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.88	16.99	16.95	18.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.93	16.85	16.89	18.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.95	16.90	16.92	18.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.95	17.00	16.91	18.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.89	17.01	16.96	18.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.90	16.84	16.87	18.2	0.0



Part27Q n77 PC2 Main PA Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	19.81			
100	PI2 BPSK	1	137	20.01			
100	PI2 BPSK	1	271	19.93			
100	PI2 BPSK	135	0	19.89			
100	PI2 BPSK	135	69	19.90			
100	PI2 BPSK	135	138	19.90			
100	PI2 BPSK	270	0	19.94			
100	QPSK	1	1	20.09			
100	QPSK	1	137	19.89			
100	QPSK	1	271	19.88			
100	QPSK	135	0	19.86			
100	QPSK	135	69	20.00			
100	QPSK	135	138	19.98			
100	QPSK	270	0	19.99			
100	16QAM	1	1	20.03			
100	64QAM	1	1	19.85			
100	256QAM	1	1	19.91			
Channel							
Frequency (MHz)							
90	QPSK	1	1	19.88	63333.4	63398.8	
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.82	3495.0	3505.02	
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.98	3485.01	3515.01	
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.90	19.99	19.81	
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.86	63333.4	63334.0	
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.81	19.92	19.80	
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.82	20.01	19.82	
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.90	19.94	19.90	
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.84	20.01	19.81	
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.80	19.86	19.90	

Part27O n78 Main PA Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.85			
100	PI2 BPSK	1	137	16.83			
100	PI2 BPSK	1	271	16.86			
100	PI2 BPSK	135	0	16.88			
100	PI2 BPSK	135	69	16.89			
100	PI2 BPSK	135	138	16.70			
100	PI2 BPSK	270	0	16.82			
100	QPSK	1	1	16.85			
100	QPSK	1	137	16.84			
100	QPSK	1	271	16.86			
100	QPSK	135	0	16.89			
100	QPSK	135	69	16.75			
100	QPSK	135	138	16.86			
100	QPSK	270	0	16.85			
100	16QAM	1	1	16.85			
100	64QAM	1	1	16.67			
100	256QAM	1	1	16.58			
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.58	65000.0	65033.4	
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.51	3745.02	3755.01	
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.57	3735.0	3765.0	
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.46	16.78	16.67	
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.49	16.77	16.68	
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.47	16.76	16.67	
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.54	16.72	16.68	
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.50	16.74	16.65	
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.46	16.79	16.64	
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.53	16.70	16.61	

Part27Q n78 Main PA Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.91			
100	PI2 BPSK	1	137	16.92			
100	PI2 BPSK	1	271	16.89			
100	PI2 BPSK	135	0	16.82			
100	PI2 BPSK	135	69	16.84			
100	PI2 BPSK	135	138	16.73			
100	PI2 BPSK	270	0	16.91			
100	QPSK	1	1	16.96			
100	QPSK	1	137	16.76			
100	QPSK	1	271	16.86			
100	QPSK	135	0	16.84			
100	QPSK	135	69	16.85			
100	QPSK	135	138	16.81			
100	QPSK	270	0	16.92			
100	16QAM	1	1	16.93			
100	64QAM	1	1	16.82			
100	256QAM	1	1	16.79			
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.58	63333.4	63398.8	
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.53	3495.0	3505.02	
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.52	3485.01	3515.01	
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.54	16.78	16.63	
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.53	16.77	16.58	
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.48	16.75	16.63	
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.54	16.80	16.58	
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.52	16.78	16.62	
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.57	16.77	16.61	
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.47	16.70	16.60	



n2 Main PA Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.83	21.87	21.77	23.0	0.0
20	PI2 BPSK	1	53	21.71	21.81	21.74		
20	PI2 BPSK	1	104	21.66	21.73	21.66		
20	PI2 BPSK	50	0	21.71	21.77	21.68	23.0	0.0
20	PI2 BPSK	50	28	21.67	21.71	21.65	23.0	0.0
20	PI2 BPSK	50	56	21.76	21.78	21.74		
20	PI2 BPSK	100	0	21.64	21.72	21.64	23.0	0.0
20	QPSK	1	1	21.81	21.88	21.87		
20	QPSK	1	53	21.80	21.86	21.83	23.0	0.0
20	QPSK	1	104	21.78	21.81	21.78		
20	QPSK	50	0	21.70	21.79	21.76	23.0	0.0
20	QPSK	50	28	21.76	21.83	21.80	23.0	0.0
20	QPSK	50	56	21.59	21.68	21.64		
20	QPSK	100	0	21.73	21.76	21.67	23.0	0.0
20	16QAM	1	1	21.77	21.86	21.80	23.0	0.0
20	64QAM	1	1	20.60	20.67	20.64	22.0	1.0
20	256QAM	1	1	18.86	18.90	18.81	20.0	3.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1902.5	23.0	0.0
15	QPSK	1	1	21.77	21.79	21.59	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852	1860	1900	23.0	0.0
10	QPSK	1	1	21.76	21.84	21.84	23.0	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1907.5	23.0	0.0
5	QPSK	1	1	21.78	21.85	21.80	23.0	0.0

n7 Main PA Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	20.63	20.71	20.88		
40	PI2 BPSK	1	168	20.58	20.60	20.93	21.9	0.0
40	PI2 BPSK	1	214	20.63	20.74	20.69		
40	PI2 BPSK	108	0	20.58	20.71	20.65	21.9	0.0
40	PI2 BPSK	108	54	20.59	20.73	20.74	21.9	0.0
40	PI2 BPSK	108	108	20.66	20.69	20.66		
40	PI2 BPSK	216	0	20.61	20.69	20.66	21.9	0.0
40	QPSK	1	1	20.71	20.80	20.77		
40	QPSK	1	108	20.67	20.70	20.71	21.9	0.0
40	QPSK	1	214	20.64	20.74	20.66		
40	QPSK	108	0	20.67	20.72	20.72	21.9	0.0
40	QPSK	108	54	20.64	20.74	20.70	21.9	0.0
40	QPSK	108	108	20.66	20.69	20.70		
40	QPSK	216	0	20.61	20.69	20.66	21.9	0.0
40	16QAM	1	1	20.65	20.75	20.74	21.9	0.0
40	64QAM	1	1	20.62	20.72	20.69	21.9	0.0
40	256QAM	1	1	18.67	18.82	18.79	20.0	1.9
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	21.9	0.0
30	QPSK	1	1	20.57	20.74	20.87	21.9	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2577.5	21.9	0.0
25	QPSK	1	1	20.64	20.71	21.68	21.9	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	20.66	20.74	20.70	21.9	0.0
Channel				511500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	20.59	20.72	20.70	21.9	0.0
Channel				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	20.66	20.71	20.72	21.9	0.0
Channel				505500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2557.5		
5	QPSK	1	1	20.63	20.65	20.63	21.9	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	21.87	21.95	21.87		
20	PI2 BPSK	1	53	21.85	21.88	21.81	23.0	0.0
20	PI2 BPSK	1	104	21.86	21.92	21.86		
20	PI2 BPSK	50	0	21.75	21.79	21.78	23.0	0.0
20	PI2 BPSK	50	28	21.86	21.75	21.70	23.0	0.0
20	PI2 BPSK	50	56	21.67	21.72	21.70		
20	PI2 BPSK	100	0	21.70	21.75	21.72	23.0	0.0
20	QPSK	1	1	21.77	21.86	21.87		
20	QPSK	1	53	21.87	21.77	21.71	23.0	0.0
20	QPSK	1	104	21.71	21.78	21.69		
20	QPSK	50	0	21.78	21.80	21.78	23.0	0.0
20	QPSK	50	28	21.83	21.86	21.81	23.0	0.0
20	QPSK	50	56	21.63	21.69	21.64		
20	QPSK	100	0	21.66	21.77	21.74	23.0	0.0
20	16QAM	1	1	21.33	21.39	21.31	23.0	0.0
20	64QAM	1	1	20.44	20.49	20.46	22.0	1.0
20	256QAM	1	1	18.86	18.84	18.85	20.0	3.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1917.5	23.0	0.0
15	QPSK	1	1	21.71	21.83	21.84	23.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1853	1882.5	1910	23.0	0.0
10	QPSK	1	1	21.74	21.83	21.84	23.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5	23.0	0.0
5	QPSK	1	1	21.75	21.86	21.89	23.0	0.0



n30 Main PA Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	21.69	21.69	21.94	23.0	0.0
10	PI2 BPSK	1	26	21.65	21.65	21.94		
10	PI2 BPSK	1	50	21.56	21.56	21.79	22.5	0.5
10	PI2 BPSK	25	0	20.84	20.84	21.85		
10	PI2 BPSK	25	14	21.46	21.46	21.78	23.0	0.0
10	PI2 BPSK	25	27	21.04	21.04	21.84		
10	PI2 BPSK	50	0	21.24	21.24	21.92	22.5	0.5
10	QPSK	1	1	21.71	21.71	21.82		
10	QPSK	1	26	21.56	21.56	21.75	23.0	0.0
10	QPSK	1	50	21.19	21.19	21.86		
10	QPSK	25	0	21.25	21.25	21.81	22.0	1.0
10	QPSK	25	14	21.38	21.38	22.01		
10	QPSK	25	27	20.93	20.93	21.88	23.0	0.0
10	QPSK	50	0	20.11	20.11	21.95		
10	16QAM	1	1	20.05	20.05	21.79	22.0	1.0
10	64QAM	1	1	19.32	19.32	20.48		
10	256QAM	1	1	17.50	17.50	18.99	20.0	3.0
Channel				481500	482000	482500		
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	21.64	21.62	21.68	23.0	0.0

n66 Main PA Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1730 1745 1760				
40	PI2 BPSK	1	1	21.90	21.98	21.94	23.0	0.0
40	PI2 BPSK	1	109	21.76	21.87	21.79		
40	PI2 BPSK	1	214	21.81	21.88	21.79	23.0	0.0
40	PI2 BPSK	108	0	21.87	21.89	21.85		
40	PI2 BPSK	108	54	21.79	21.81	21.78	23.0	0.0
40	PI2 BPSK	108	108	21.80	21.87	21.84		
40	PI2 BPSK	216	0	21.84	21.97	21.92	23.0	0.0
40	QPSK	1	1	22.01	22.14	21.82		
40	QPSK	1	108	21.76	21.81	21.75	23.0	0.0
40	QPSK	1	214	21.83	21.90	21.86		
40	QPSK	108	0	21.84	21.88	21.81	23.0	0.0
40	QPSK	108	54	22.00	22.06	22.01		
40	QPSK	108	108	21.85	21.92	21.88	23.0	0.0
40	QPSK	216	0	21.87	21.97	21.95		
40	16QAM	1	1	21.84	21.85	21.79	23.0	0.0
40	64QAM	1	1	20.46	20.55	20.48		
40	256QAM	1	1	18.96	19.02	18.99	20.0	3.0
Channel				345000	346000	347000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.97	22.10	21.77	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.98	21.98	21.75	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.52	22.07	21.74	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.98	22.07	21.75	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.96	22.07	21.74	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	22.26	22.26	22.26	23.0	0.0
15	PI2 BPSK	1	49	22.21	22.21	22.21		
15	PI2 BPSK	1	77	22.05	22.05	22.05	23.0	0.0
15	PI2 BPSK	36	0	22.21	22.21	22.21		
15	PI2 BPSK	36	22	22.18	22.18	22.18	23.0	0.0
15	PI2 BPSK	36	43	22.09	22.09	22.09		
15	PI2 BPSK	75	0	22.15	22.15	22.15	23.0	0.0
15	QPSK	1	1	22.29	22.29	22.29		
15	QPSK	1	49	22.17	22.17	22.17	23.0	0.0
15	QPSK	1	77	22.03	22.03	22.03		
15	QPSK	36	0	22.16	22.16	22.16	23.0	0.0
15	QPSK	36	22	22.23	22.23	22.23		
15	QPSK	36	43	22.08	22.08	22.08	23.0	0.0
15	QPSK	75	0	22.20	22.20	22.20		
15	16QAM	1	1	22.26	22.26	22.26	23.0	0.0
15	64QAM	1	1	20.44	20.44	20.44		
15	256QAM	1	1	18.98	18.98	18.98	20.0	3.0
Channel				340000	345000	341000		
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	22.23	22.25	22.22	23.0	0.0
Channel				339500	345500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	22.22	22.22	22.22	23.0	0.0



n41 Main PA Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.96	19.98	19.95		
100	PI2 BPSK	1	137	19.92	20.06	20.00	21.4	0.0
100	PI2 BPSK	1	271	19.96	19.96	19.94		
100	PI2 BPSK	135	0	19.96	19.97	20.01	21.4	0.0
100	PI2 BPSK	135	69	20.00	20.01	19.94	21.4	0.0
100	PI2 BPSK	135	133	19.98	20.03	20.01	21.4	0.0
100	PI2 BPSK	270	0	19.98	20.04	19.97		
100	QPSK	1	1	20.03	20.11	20.08		
100	QPSK	1	137	19.92	20.06	20.03	21.4	0.0
100	QPSK	1	271	19.91	20.06	19.96		
100	QPSK	135	0	19.94	20.00	19.95	21.4	0.0
100	QPSK	135	69	19.93	20.02	19.96	21.4	0.0
100	QPSK	135	138	19.95	20.00	19.93	21.4	0.0
100	QPSK	270	0	19.91	19.99	19.96		
100	16QAM	1	1	19.89	20.03	19.95	21.4	0.0
100	64QAM	1	1	19.90	20.01	19.96	21.4	0.0
100	256QAM	1	1	19.95	20.08	20.04	21.4	0.0
Channel								
Frequency (MHz)				5020.00	51898	53698		
90	QPSK	1	1	25.41	25.92	26.44	21.4	0.0
Channel								
Frequency (MHz)				50720.4	51898	52998		
80	QPSK	1	1	25.82	25.92	26.43	21.4	0.0
Channel								
Frequency (MHz)				50820.2	51898	53100		
70	QPSK	1	1	25.31	25.92	26.55	21.4	0.0
Channel								
Frequency (MHz)				50420.4	51898	53298		
60	QPSK	1	1	25.26	25.92	26.59	21.4	0.0
Channel								
Frequency (MHz)				50320.2	51898	53400		
50	QPSK	1	1	25.16	25.92	26.70	21.4	0.0
Channel								
Frequency (MHz)				50220.0	51898	53498		
40	QPSK	1	1	25.11	25.92	26.74	21.4	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
30	QPSK	1	1	19.91	20.05	19.94	21.4	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.89	19.97	20.04	21.4	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.07	23.23	23.15		
100	PI2 BPSK	1	137	23.06	23.15	23.11	24.4	0.0
100	PI2 BPSK	1	271	23.06	23.24	23.09		
100	PI2 BPSK	135	0	23.12	23.14	23.07	24.4	0.0
100	PI2 BPSK	135	69	23.13	23.18	23.14	24.4	0.0
100	PI2 BPSK	135	133	23.04	23.19	23.06	24.4	0.0
100	PI2 BPSK	270	0	23.14	23.19	23.12		
100	QPSK	1	1	23.19	23.26	23.21		
100	QPSK	1	137	23.13	23.18	23.13	24.4	0.0
100	QPSK	1	271	23.06	23.16	23.07		
100	QPSK	135	0	23.10	23.19	23.12	24.4	0.0
100	QPSK	135	69	23.08	23.25	23.17	24.4	0.0
100	QPSK	135	138	23.11	23.24	23.12	24.4	0.0
100	QPSK	270	0	23.07	23.20	23.16		
100	16QAM	1	1	23.08	23.19	23.13	24.4	0.0
100	64QAM	1	1	23.13	23.19	23.15	24.4	0.0
100	256QAM	1	1	23.07	23.19	23.13	23.9	0.5
Channel								
Frequency (MHz)				5020.00	51898	53698		
90	QPSK	1	1	23.05	23.17	23.13	24.4	0.0
Channel								
Frequency (MHz)				50720.4	51898	52998		
80	QPSK	1	1	23.07	23.21	23.13	24.4	0.0
Channel								
Frequency (MHz)				50820.2	51898	53100		
70	QPSK	1	1	23.14	23.20	23.14	24.4	0.0
Channel								
Frequency (MHz)				50420.4	51898	53298		
60	QPSK	1	1	23.06	23.20	23.18	24.4	0.0
Channel								
Frequency (MHz)				50320.2	51898	53400		
50	QPSK	1	1	23.16	23.20	23.16	24.4	0.0
Channel								
Frequency (MHz)				50220.0	51898	53498		
40	QPSK	1	1	23.11	23.22	23.15	24.4	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
30	QPSK	1	1	23.09	23.14	23.08	24.4	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.07	23.23	23.07	24.4	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	22.22	22.21	22.26		
40	PI2 BPSK	1	53	22.22	22.17	22.17	24.0	0.0
40	PI2 BPSK	1	104	22.16	22.23	22.14		
40	PI2 BPSK	50	0	22.26	22.21	22.18	23.5	0.5
40	PI2 BPSK	50	28	22.17	22.26	22.05	24.0	0.0
40	PI2 BPSK	50	86	22.15	22.21	22.11	23.5	0.5
40	PI2 BPSK	100	0	22.15	22.23	22.11		
40	QPSK	1	1	22.30	22.40	22.32		
40	QPSK	1	53	22.24	22.27	22.17	24.0	0.0
40	QPSK	1	104	22.22	22.24	22.17		
40	QPSK	50	0	22.22	22.19	22.29	23.0	1.0
40	QPSK	50	28	22.12	22.32	22.17	24.0	0.0
40	QPSK	50	58	22.23	22.29	22.23	23.0	1.0
40	QPSK	100	0	22.07	22.25	22.15		
40	16QAM	1	1	22.15	22.26	22.11	23.0	1.0
40	64QAM	1	1	20.77	20.84	20.83	21.5	2.5
40	256QAM	1	1	17.70	17.81	17.78	19.5	4.5
Channel								
Frequency (MHz)				63733.4	64166	64600		
30	QPSK	1	1	35.55	35.54	35.49	24.0	0.0
Channel								
Frequency (MHz)				63700.0	64166	64632		
20	QPSK	1	1	35.55	35.54	35.49	24.0	0.0
Channel								
Frequency (MHz)				3555	3624.99	3684.88		
10	QPSK	1	1	22.21	22.32	22.20	24.0	0.0



Part270 n77 Main PA Ant 2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	1	22.08	22.08	22.18	23.0	0.0
100	PI2 BPSK	1	1	22.16	22.08	22.07		
100	PI2 BPSK	1	271	22.01	22.17	22.05		
100	PI2 BPSK	135	0	22.19	22.14	22.08	22.5	0.5
100	PI2 BPSK	135	69	22.11	22.15	22.12	23.0	0.0
100	PI2 BPSK	135	133	22.02	22.14	22.03		
100	PI2 BPSK	270	0	22.03	22.08	21.98	22.5	0.5
100	QPSK	1	1	22.23	22.33	22.28		
100	QPSK	1	137	22.11	22.20	22.12	23.0	0.0
100	QPSK	1	271	22.16	22.13	22.09		
100	QPSK	135	0	21.24	21.35	21.25	22.0	1.0
100	QPSK	135	69	22.04	22.31	22.02	23.0	0.0
100	QPSK	135	138	21.25	21.33	21.32	22.0	1.0
100	QPSK	270	0	21.25	21.30	21.26	22.0	1.0
100	16QAM	1	1	21.10	21.21	20.99	22.0	1.0
100	64QAM	1	1	19.71	19.88	19.82	20.5	2.5
100	256QAM	1	1	17.73	17.87	17.78	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.15	22.27	22.22	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.15	22.23	22.22	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.20	22.26	22.19	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.20	22.28	22.22	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.14	22.26	22.19	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.18	22.31	22.19	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.17	22.23	22.19	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.17	22.23	22.22	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.13	22.23	22.25	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.18	22.25	22.23	23.0	0.0

Part270 n77 PC2 Main PA Ant 2

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								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.12	24.79	24.11		
100	PI2 BPSK	1	137	24.00	24.84	24.04	26.0	0.0
100	PI2 BPSK	1	271	24.12	24.86	24.09		
100	PI2 BPSK	135	0	23.83	24.39	23.81	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.84	24.12	26.0	0.0
100	PI2 BPSK	135	133	23.80	24.41	23.81		
100	PI2 BPSK	270	0	23.70	24.48	23.70	25.5	0.5
100	QPSK	1	1	24.21	24.96	24.18		
100	QPSK	1	137	24.10	24.84	24.11	26.0	0.0
100	QPSK	1	271	24.10	24.83	24.12		
100	QPSK	135	0	23.20	23.93	23.17	25.0	1.0
100	QPSK	135	69	24.18	24.91	24.15	26.0	0.0
100	QPSK	135	138	23.07	24.01	23.12	25.0	1.0
100	QPSK	270	0	23.14	23.97	23.16		
100	16QAM	1	1	23.16	23.85	23.17	25.0	1.0
100	64QAM	1	1	21.72	22.47	21.76	23.5	2.5
100	256QAM	1	1	19.61	20.34	19.61	21.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.11	24.88	24.11	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.09	24.85	24.05	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.13	24.84	24.15	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.17	24.92	24.10	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.17	24.85	24.08	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.15	24.94	24.11	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.11	24.83	24.12	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.09	24.80	24.04	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.09	24.91	24.15	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.13	24.90	24.05	26.0	0.0

Part27Q n77 Main PA Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.72	21.86	21.81		
100	PI2 BPSK	1	137	21.81	21.91	21.85	23.0	0.0
100	PI2 BPSK	1	271	21.79	21.84	21.78		
100	PI2 BPSK	135	0	21.79	21.90	21.90	22.5	0.5
100	PI2 BPSK	135	69	21.79	21.78	21.87	23.0	0.0
100	PI2 BPSK	135	133	21.86	21.92	21.87		
100	PI2 BPSK	270	0	21.83	21.88	21.82	22.5	0.5
100	QPSK	1	1	21.81	21.94	21.91		
100	QPSK	1	137	21.82	21.84	21.74	23.0	0.0
100	QPSK	1	271	21.76	21.89	21.81		
100	QPSK	135	0	21.35	21.43	21.33	22.0	1.0
100	QPSK	135	69	21.74	21.81	21.70	23.0	0.0
100	QPSK	135	138	21.36	21.40	21.33	22.0	1.0
100	QPSK	270	0	21.31	21.48	21.36	22.0	1.0
100	16QAM	1	1	21.37	21.38	21.38	22.0	1.0
100	64QAM	1	1	19.80	19.86	19.81	20.5	2.5
100	256QAM	1	1	17.88	17.87	17.82	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.72	21.86	21.88	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.74	21.92	21.81	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.76	21.83	21.88	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.76	21.87	21.84	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.71	21.84	21.79	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.79	21.90	21.84	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.78	21.90	21.88	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.72	21.85	21.85	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.67	21.92	21.78	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.88	21.82	21.79	23.0	0.0



Part27Q n77 PC2 Main PA Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	24.85	25.01	24.79	
100	PI2 BPSK	1	1	137	24.92	24.83	26.0
100	PI2 BPSK	1	271	24.97	25.00	24.82	
100	PI2 BPSK	135	0	25.03	25.10	24.99	25.5
100	PI2 BPSK	135	69	24.98	24.92	24.95	26.0
100	PI2 BPSK	135	138	24.95	25.00	24.91	25.5
100	PI2 BPSK	270	0	24.96	25.02	24.98	
100	QPSK	1	1	25.01	25.11	24.91	
100	QPSK	1	137	24.88	25.03	24.85	26.0
100	QPSK	1	271	24.99	24.96	24.75	
100	QPSK	135	0	24.48	24.60	24.45	25.0
100	QPSK	135	69	24.94	24.95	24.92	26.0
100	QPSK	135	138	24.47	24.55	24.46	25.0
100	QPSK	270	0	24.48	24.59	24.46	
100	16QAM	1	1	24.46	24.60	24.49	25.0
100	64QAM	1	1	23.04	23.07	22.98	23.5
100	256QAM	1	1	20.94	21.13	20.96	21.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.99	25.04	24.88	26.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.94	25.03	24.92	26.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.91	25.04	24.79	26.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.93	24.98	24.78	26.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.88	25.03	24.77	26.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.97	25.06	24.79	26.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.97	25.05	24.82	26.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.90	25.03	24.80	26.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.95	24.96	24.78	26.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.89	24.95	24.86	26.0

Part27O n78 Main PA Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.55			
100	PI2 BPSK	1	137	21.49			23.0
100	PI2 BPSK	1	271	21.45			
100	PI2 BPSK	135	0	21.22			22.5
100	PI2 BPSK	135	69	21.44			23.0
100	PI2 BPSK	135	138	21.12			22.5
100	PI2 BPSK	270	0	21.06			23.0
100	QPSK	1	1	20.83			
100	QPSK	1	137	20.61			22.0
100	QPSK	1	271	20.80			
100	QPSK	135	0	19.84			21.0
100	QPSK	135	69	20.56			22.0
100	QPSK	135	138	19.78			21.0
100	QPSK	270	0	19.75			21.0
100	16QAM	1	1	20.04			22.0
100	64QAM	1	1	18.67			20.5
100	256QAM	1	1	17.09			18.5
Channel							
Frequency (MHz)							
90	PI2 BPSK	1	1	21.47	21.50	21.48	23.0
Channel							
Frequency (MHz)							
80	PI2 BPSK	1	1	21.51	21.46	21.51	23.0
Channel							
Frequency (MHz)							
70	PI2 BPSK	1	1	21.48	21.42	21.51	23.0
Channel							
Frequency (MHz)							
60	PI2 BPSK	1	1	21.47	21.47	21.50	23.0
Channel							
Frequency (MHz)							
50	PI2 BPSK	1	1	21.50	21.45	21.40	23.0
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	21.49	21.41	21.45	23.0
Channel							
Frequency (MHz)							
30	PI2 BPSK	1	1	21.50	21.45	21.43	23.0
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	21.42	21.48	21.49	23.0
Channel							
Frequency (MHz)							
15	PI2 BPSK	1	1	21.42	21.46	21.43	23.0
Channel							
Frequency (MHz)							
10	PI2 BPSK	1	1	21.50	21.43	21.40	23.0

Part27Q n78 Main PA Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.14			
100	PI2 BPSK	1	137	22.05			23.0
100	PI2 BPSK	1	271	22.06			
100	PI2 BPSK	135	0	21.42			22.5
100	PI2 BPSK	135	69	22.05			23.0
100	PI2 BPSK	135	138	21.95			22.5
100	PI2 BPSK	270	0	21.46			23.0
100	QPSK	1	1	21.29			
100	QPSK	1	137	21.09			23.0
100	QPSK	1	271	21.05			
100	QPSK	135	0	20.23			22.0
100	QPSK	135	69	21.15			23.0
100	QPSK	135	138	20.29			22.0
100	QPSK	270	0	20.26			22.0
100	16QAM	1	1	20.55			22.0
100	64QAM	1	1	19.06			20.5
100	256QAM	1	1	18.01			18.5
Channel							
Frequency (MHz)							
90	PI2 BPSK	1	1	22.04	22.04	22.05	23.0
Channel							
Frequency (MHz)							
80	PI2 BPSK	1	1	22.02	22.09	22.08	23.0
Channel							
Frequency (MHz)							
70	PI2 BPSK	1	1	22.01	21.98	22.05	23.0
Channel							
Frequency (MHz)							
60	PI2 BPSK	1	1	22.09	22.08	21.99	23.0
Channel							
Frequency (MHz)							
50	PI2 BPSK	1	1	22.06	22.05	21.99	23.0
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	22.04	22.00	22.01	23.0
Channel							
Frequency (MHz)							
30	PI2 BPSK	1	1	22.07	22.07	22.03	23.0
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	22.02	22.05	22.09	23.0
Channel							
Frequency (MHz)							
15	PI2 BPSK	1	1	22.01	22.08	22.09	23.0
Channel							
Frequency (MHz)							
10	PI2 BPSK	1	1	22.05	22.08	22.07	23.0



n2 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.74	18.74	18.85	19.6	0.0
20	PI2 BPSK	1	53	18.58	18.62	18.64		
20	PI2 BPSK	1	104	18.73	18.71	18.54		
20	PI2 BPSK	50	0	18.67	18.75	18.58	19.6	0.0
20	PI2 BPSK	50	28	18.67	18.66	18.58	19.6	0.0
20	PI2 BPSK	50	86	18.62	18.62	18.61	19.6	0.0
20	PI2 BPSK	100	0	18.68	18.71	18.67		
20	QPSK	1	1	18.79	18.67	18.69		
20	QPSK	1	53	18.58	18.73	18.67	19.6	0.0
20	QPSK	1	104	18.94	18.80	18.77	19.6	0.0
20	QPSK	50	0	18.68	18.68	18.70		
20	QPSK	50	28	18.59	18.79	18.80		
20	QPSK	50	56	18.62	18.59	18.63	19.6	0.0
20	QPSK	100	0	18.54	18.68	18.67	19.6	0.0
20	16QAM	1	1	18.55	18.59	18.52		
20	64QAM	1	1	18.64	18.69	18.64		
20	256QAM	1	1	18.56	18.70	18.64	19.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.75	18.80	18.66	19.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.67	18.77	18.59	19.6	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	18.74	18.79	18.61	19.6	0.0

n7 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 504000	Middle Ch. / Freq. 507000	High Ch. / Freq. 510000		
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.85	18.80	18.73	19.6	0.0
40	PI2 BPSK	1	108	18.63	18.77	18.64		
40	PI2 BPSK	1	214	18.71	18.60	18.57		
40	PI2 BPSK	108	0	18.73	18.68	18.68	19.6	0.0
40	PI2 BPSK	108	54	18.59	18.67	18.63	19.6	0.0
40	PI2 BPSK	108	108	18.60	18.66	18.58	19.6	0.0
40	PI2 BPSK	216	0	18.65	18.72	18.52		
40	QPSK	1	1	18.56	18.97	18.72		
40	QPSK	1	108	18.58	18.80	18.68	19.6	0.0
40	QPSK	1	214	18.80	18.61	18.51	19.6	0.0
40	QPSK	108	0	18.58	18.69	18.69		
40	QPSK	108	54	18.66	18.64	18.68		
40	QPSK	108	108	18.67	18.68	18.63	19.6	0.0
40	QPSK	216	0	18.53	18.71	18.58	19.6	0.0
40	16QAM	1	1	18.53	18.72	18.68		
40	64QAM	1	1	18.59	18.71	18.69		
40	256QAM	1	1	18.56	18.74	18.67	19.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.50	18.94	18.65	19.6	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.52	18.93	18.69	19.6	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.51	18.88	18.59	19.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.47	18.94	18.59	19.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.47	18.86	18.59	19.6	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	18.49	18.85	18.61	19.6	0.0

n25 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.94	18.83	18.77	19.6	0.0
20	PI2 BPSK	1	53	18.70	18.68	18.75		
20	PI2 BPSK	1	104	18.86	18.77	18.67		
20	PI2 BPSK	50	0	18.70	18.80	18.62	19.6	0.0
20	PI2 BPSK	50	28	18.74	18.76	18.72	19.6	0.0
20	PI2 BPSK	50	56	18.75	18.77	18.78	19.6	0.0
20	PI2 BPSK	100	0	18.75	18.82	18.66		
20	QPSK	1	1	18.81	19.03	18.80		
20	QPSK	1	53	18.71	18.77	18.78	19.6	0.0
20	QPSK	1	104	18.80	18.84	18.80	19.6	0.0
20	QPSK	50	0	18.71	18.75	18.73		
20	QPSK	50	28	18.75	18.79	18.71		
20	QPSK	50	56	18.68	18.65	18.67	19.6	0.0
20	QPSK	100	0	18.63	18.75	18.67	19.6	0.0
20	16QAM	1	1	18.68	18.69	18.61		
20	64QAM	1	1	18.68	18.74	18.71		
20	256QAM	1	1	18.61	18.66	18.60	19.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.70	18.95	18.72	19.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.74	18.93	18.77	19.6	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	18.71	18.94	18.68	19.6	0.0



n30 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					2310			
Frequency (MHz)					19.68			
10	PI2 BPSK	1	1	19.68			20.6	0.0
10	PI2 BPSK	1	26	19.55				
10	PI2 BPSK	1	50	19.60				
10	PI2 BPSK	25	0	19.61			20.6	0.0
10	PI2 BPSK	25	14	19.71			20.6	0.0
10	PI2 BPSK	25	27	19.60				
10	PI2 BPSK	50	0	19.55			20.6	0.0
10	QPSK	1	1	19.75				
10	QPSK	1	26	19.37			20.6	0.0
10	QPSK	1	50	19.06				
10	QPSK	25	0	19.95			20.6	0.0
10	QPSK	25	14	19.47			20.6	0.0
10	QPSK	25	27	19.97			20.6	0.0
10	QPSK	50	0	19.36			20.6	0.0
10	16QAM	1	1	19.31			20.6	0.0
10	64QAM	1	1	19.18			20.6	0.0
10	256QAM	1	1	19.23			19.5	1.1
Channel				481500	462000	465500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	19.60	19.64	19.66	20.6	0.0

n66 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					1730	1745	1760	
Frequency (MHz)					19.74	19.83	19.79	
40	PI2 BPSK	1	1	19.74	19.83	19.79	21.1	0.0
40	PI2 BPSK	1	109	19.56	19.55	19.63		
40	PI2 BPSK	1	214	19.73	19.76	19.67		
40	PI2 BPSK	108	0	19.65	19.83	19.62	21.1	0.0
40	PI2 BPSK	108	54	19.50	19.83	19.65	21.1	0.0
40	PI2 BPSK	108	108	19.67	19.79	19.63	21.1	0.0
40	PI2 BPSK	216	0	19.62	19.66	19.67		
40	QPSK	1	1	19.85	19.86	19.72		
40	QPSK	1	108	19.68	19.72	19.69	21.1	0.0
40	QPSK	1	214	19.63	19.72	19.63		
40	QPSK	108	0	19.70	19.83	19.74	21.1	0.0
40	QPSK	108	54	19.79	19.75	19.72	21.1	0.0
40	QPSK	108	108	19.67	19.66	19.65		
40	QPSK	216	0	19.84	19.79	19.73	21.1	0.0
40	16QAM	1	1	19.76	19.82	19.80	21.1	0.0
40	64QAM	1	1	19.51	19.67	19.52	21.1	0.0
40	256QAM	1	1	19.58	19.63	19.63	21.0	0.1
Channel				345000	348000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.80	19.71	19.62	21.1	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.75	19.77	19.60	21.1	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.78	19.76	19.66	21.1	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.75	19.74	19.63	21.1	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.72	19.78	19.63	21.1	0.0

n70 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					1702.5			
Frequency (MHz)					20.27			
15	PI2 BPSK	1	1	20.27			21.4	0.0
15	PI2 BPSK	1	49	20.14				
15	PI2 BPSK	1	77	20.12				
15	PI2 BPSK	36	0	20.07			21.4	0.0
15	PI2 BPSK	36	22	20.07			21.4	0.0
15	PI2 BPSK	36	43	20.05				
15	PI2 BPSK	75	0	20.05			21.4	0.0
15	QPSK	1	1	20.35				
15	QPSK	1	49	20.23			21.4	0.0
15	QPSK	1	77	19.95				
15	QPSK	36	0	20.12			21.4	0.0
15	QPSK	36	22	20.17			21.4	0.0
15	QPSK	36	43	20.16			21.4	0.0
15	QPSK	75	0	20.10			21.4	0.0
15	16QAM	1	1	20.10			21.4	0.0
15	64QAM	1	1	20.11			21.0	0.4
15	256QAM	1	1	19.66			21.0	0.4
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	20.19	20.16	20.28	21.4	0.0
Channel				339500	345500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	20.14	20.24	20.21	21.4	0.0



n41 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.22	18.34	18.28		
100	PI2 BPSK	1	137	18.04	18.16	18.09	19.0	0.0
100	PI2 BPSK	1	271	17.87	17.89	17.85		
100	PI2 BPSK	135	0	18.15	18.22	18.13	19.0	0.0
100	PI2 BPSK	135	69	17.88	17.82	17.82	19.0	0.0
100	PI2 BPSK	135	138	17.83	17.69	17.69		
100	PI2 BPSK	270	0	17.88	17.89	17.85	19.0	0.0
100	QPSK	1	1	18.07	18.36	17.97		
100	QPSK	1	137	17.89	17.95	17.88	19.0	0.0
100	QPSK	1	271	17.84	17.72	17.60		
100	QPSK	135	0	18.00	18.03	18.01	19.0	0.0
100	QPSK	135	69	18.08	18.11	18.10	19.0	0.0
100	QPSK	135	138	17.76	17.85	17.68		
100	QPSK	270	0	17.97	18.01	17.85	19.0	0.0
100	16QAM	1	1	18.27	18.35	18.18	19.0	0.0
100	64QAM	1	1	18.00	18.04	17.98	19.0	0.0
100	256QAM	1	1	17.85	17.90	17.81	19.0	0.0
Channel				509200	518598	528000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.12	18.32	18.03	19.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	18.16	18.31	18.15	19.0	0.0
Channel				508202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.17	18.27	18.17	19.0	0.0
Channel				508200	518598	531000		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.13	18.30	18.17	19.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.00	2592.99	2664.99		
50	QPSK	1	1	18.09	18.30	18.21	19.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	18.13	18.25	18.19	19.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.10	18.22	18.17	19.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.16	18.28	18.20	19.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	21.10	21.20	21.20		
100	PI2 BPSK	1	137	21.01	21.13	20.98	22.0	0.0
100	PI2 BPSK	1	271	21.06	21.14	21.06		
100	PI2 BPSK	135	0	21.09	21.15	21.12	22.0	0.0
100	PI2 BPSK	135	69	21.03	21.03	21.07	22.0	0.0
100	PI2 BPSK	135	138	21.04	21.05	20.95		
100	PI2 BPSK	270	0	20.95	21.10	20.94	22.0	0.0
100	QPSK	1	1	20.94	21.22	20.99		
100	QPSK	1	137	21.17	21.14	21.10	22.0	0.0
100	QPSK	1	271	21.05	20.97	20.97		
100	QPSK	135	0	20.80	20.82	20.83	22.0	0.0
100	QPSK	135	69	20.78	20.84	20.81	22.0	0.0
100	QPSK	135	138	20.79	20.83	20.83		
100	QPSK	270	0	20.80	20.98	20.85	22.0	0.0
100	16QAM	1	1	21.00	20.98	21.07	22.0	0.0
100	64QAM	1	1	20.78	21.00	20.93	22.0	0.0
100	256QAM	1	1	20.90	20.93	20.83	22.0	0.0
Channel				508200	518598	529998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.96	21.15	21.14	22.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	21.00	21.10	21.17	22.0	0.0
Channel				508202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.05	21.13	21.17	22.0	0.0
Channel				508200	518598	531000		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.01	21.16	21.17	22.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.00	2592.99	2664.99		
50	QPSK	1	1	21.03	21.17	21.16	22.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	20.98	21.10	21.10	22.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.98	21.09	21.12	22.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.05	21.14	21.17	22.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				637000	641866	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	16.09	16.23	16.03		
40	PI2 BPSK	1	53	16.10	16.16	16.05	17.3	0.0
40	PI2 BPSK	1	104	16.03	16.18	15.99		
40	PI2 BPSK	50	0	16.03	16.28	15.96	17.3	0.0
40	PI2 BPSK	50	28	16.06	16.28	16.02	17.3	0.0
40	PI2 BPSK	50	86	16.00	16.11	15.86		
40	PI2 BPSK	100	0	16.18	16.30	16.00	17.3	0.0
40	QPSK	1	1	16.18	16.37	16.14		
40	QPSK	1	53	16.12	16.29	16.04	17.3	0.0
40	QPSK	1	104	16.17	16.11	16.93		
40	QPSK	50	0	16.11	16.16	16.10	17.3	0.0
40	QPSK	50	28	16.12	16.34	16.07	17.3	0.0
40	QPSK	50	86	16.08	16.04	16.01		
40	QPSK	100	0	16.16	16.21	15.97	17.3	0.0
40	16QAM	1	1	15.94	16.22	15.96	17.3	0.0
40	64QAM	1	1	15.91	16.14	15.99	17.3	0.0
40	256QAM	1	1	15.99	15.97	15.86	17.3	0.0
Channel				637000	641866	645332		
Frequency (MHz)				3555.92	3624.99	3694.98		
30	QPSK	1	1	16.15	16.29	16.07	17.3	0.0
Channel				637334	641866	646000		
Frequency (MHz)				3550.91	3624.99	3700		
20	QPSK	1	1	16.14	16.23	16.06	17.3	0.0
Channel				637000	641866	646332		
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	16.14	16.32	16.04	17.3	0.0



Part270 n77 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	15.47	15.66	15.47		
100	PI2 BPSK	1	1	15.51	15.70	15.52	17.1	0.0
100	PI2 BPSK	1	271	15.45	15.75	15.44		
100	PI2 BPSK	135	0	15.50	15.70	15.43	17.1	0.0
100	PI2 BPSK	135	69	15.37	15.59	15.54	17.1	0.0
100	PI2 BPSK	135	138	15.39	15.59	15.43	17.1	0.0
100	PI2 BPSK	270	0	15.49	15.53	15.49	17.1	0.0
100	QPSK	1	1	15.64	15.80	15.75		
100	QPSK	1	137	15.59	15.73	15.56	17.1	0.0
100	QPSK	1	271	15.50	15.74	15.64		
100	QPSK	135	0	15.58	15.58	15.64	17.1	0.0
100	QPSK	135	69	15.42	15.72	15.67	17.1	0.0
100	QPSK	135	138	15.32	15.58	15.52	17.1	0.0
100	QPSK	270	0	15.52	15.67	15.56	17.1	0.0
100	16QAM	1	1	15.37	15.54	15.48	17.1	0.0
100	64QAM	1	1	15.44	15.54	15.39	17.1	0.0
100	256QAM	1	1	15.50	15.47	15.44	17.1	0.0
Channel				649668	659000	662334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.51	15.73	15.72	17.1	0.0
Channel				649334	656000	662668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	15.58	15.87	15.82	17.1	0.0
Channel				649000	656000	663000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.51	15.65	15.60	17.1	0.0
Channel				648668	650000	663334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.57	15.64	15.66	17.1	0.0
Channel				648334	650000	663668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.57	15.72	15.70	17.1	0.0
Channel				648000	656000	664000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.59	15.70	15.71	17.1	0.0
Channel				647668	650000	664334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.51	15.65	15.68	17.1	0.0
Channel				647334	650000	664668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.57	15.73	15.67	17.1	0.0
Channel				647000	650000	665000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
15	QPSK	1	1	15.50	15.73	15.65	17.1	0.0
Channel				647000	650000	665000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	15.58	15.71	15.64	17.1	0.0

Part270 n77 PC2 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 660000		
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.44	18.71	18.51		
100	PI2 BPSK	1	137	18.36	18.72	18.56	20.1	0.0
100	PI2 BPSK	1	271	18.45	18.87	18.50		
100	PI2 BPSK	135	0	18.42	18.71	18.47	20.1	0.0
100	PI2 BPSK	135	69	18.29	18.83	18.50	20.1	0.0
100	PI2 BPSK	135	138	18.50	18.80	18.74	20.1	0.0
100	PI2 BPSK	270	0	18.58	18.80	18.66	20.1	0.0
100	QPSK	1	1	18.57	18.85	18.75		
100	QPSK	1	137	18.50	18.87	18.86	20.1	0.0
100	QPSK	1	271	18.44	18.91	18.85		
100	QPSK	135	0	18.33	18.86	18.40	20.1	0.0
100	QPSK	135	69	18.39	18.89	18.50	20.1	0.0
100	QPSK	135	138	18.51	18.83	18.50	20.1	0.0
100	QPSK	270	0	18.42	18.84	18.49	20.1	0.0
100	16QAM	1	1	18.47	18.83	18.50	20.1	0.0
100	64QAM	1	1	18.38	18.74	18.57	20.1	0.0
100	256QAM	1	1	18.47	18.83	18.48	20.1	0.0
Channel				649668	658000	662334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.51	18.81	18.67	20.1	0.0
Channel				649334	656000	662668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.54	18.89	18.64	20.1	0.0
Channel				649000	656000	663000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.40	18.83	18.68	20.1	0.0
Channel				648668	650000	663334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.48	18.89	18.81	20.1	0.0
Channel				648334	650000	663668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.51	18.87	18.67	20.1	0.0
Channel				648000	656000	664000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.51	18.91	18.84	20.1	0.0
Channel				647668	650000	664334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.54	18.88	18.62	20.1	0.0
Channel				647334	650000	664668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.50	18.87	18.62	20.1	0.0
Channel				647000	650000	665000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
15	QPSK	1	1	18.54	18.81	18.84	20.1	0.0
Channel				647000	650000	665000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.48	18.87	18.88	20.1	0.0

Part27Q n77 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 633000	Middle Ch. / Freq. 633000	High Ch. / Freq. 633000		
Channel								
Frequency (MHz)						3500.01		
100	PI2 BPSK	1	1			18.01		
100	PI2 BPSK	1	137			15.97	17.1	0.0
100	PI2 BPSK	1	271			15.93		
100	PI2 BPSK	135	0			15.88	17.1	0.0
100	PI2 BPSK	135	69			15.90	17.1	0.0
100	PI2 BPSK	135	138			15.85	17.1	0.0
100	PI2 BPSK	270	0			15.81	17.1	0.0
100	QPSK	1	1			16.11		
100	QPSK	1	137			15.98	17.1	0.0
100	QPSK	1	271			16.00		
100	QPSK	135	0			15.79	17.1	0.0
100	QPSK	135	69			15.89	17.1	0.0
100	QPSK	135	138			15.81	17.1	0.0
100	QPSK	270	0			15.80	17.1	0.0
100	16QAM	1	1			15.99	17.1	0.0
100	64QAM	1	1			15.58	17.1	0.0
100	256QAM	1	1			15.57	17.1	0.0
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1			15.89	15.96	15.96
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1			15.93	15.99	15.96
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1			15.97	15.90	15.97
Channel				631968	633334	635000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1			15.97	16.01	15.88
Channel				631600	633334	635000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1			15.98	15.93	15.90
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1			15.90	16.00	15.98
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1			15.95	15.99	15.97
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1			15.98	15.96	15.87
Channel				630300	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3455	3500.01	3545.02		
15	QPSK	1	1			15.96	16.00	15.93
Channel				630000	633334	636334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3450.01	3500.01	3545.01		
10	QPSK	1	1			15.95	15.99	15.96



Part27Q 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.92	18.92				
100	PI2 BPSK	1	137	18.82			20.1	0.0	
100	PI2 BPSK	1	271	18.84					
100	PI2 BPSK	135	0	18.82			20.1	0.0	
100	PI2 BPSK	135	69	18.78			20.1	0.0	
100	PI2 BPSK	135	138	18.87			20.1	0.0	
100	PI2 BPSK	270	0	18.78			20.1	0.0	
100	QPSK	1	1	18.96					
100	QPSK	1	137	18.87			20.1	0.0	
100	QPSK	1	271	18.74					
100	QPSK	135	0	18.82			20.1	0.0	
100	QPSK	135	69	18.88			20.1	0.0	
100	QPSK	135	138	18.87			20.1	0.0	
100	QPSK	270	0	18.74			20.1	0.0	
100	16QAM	1	1	18.75			20.1	0.0	
100	64QAM	1	1	18.81			20.1	0.0	
100	256QAM	1	1	18.80			20.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.74	18.89	18.84	20.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.84	18.87	18.87	20.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.74	18.88	18.83	20.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.77	18.93	18.83	20.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.79	18.87	18.84	20.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.75	18.94	18.84	20.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.75	18.90	18.87	20.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.73	18.95	18.87	20.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.82	18.95	18.93	20.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.85	18.90	18.85	20.1	0.0	

Part27O 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.54	15.54				
100	PI2 BPSK	1	137	15.48			17.1	0.0	
100	PI2 BPSK	1	271	15.42					
100	PI2 BPSK	135	0	15.42			17.1	0.0	
100	PI2 BPSK	135	69	15.42			17.1	0.0	
100	PI2 BPSK	135	138	15.25			17.1	0.0	
100	PI2 BPSK	270	0	15.41			17.1	0.0	
100	QPSK	1	1	15.60					
100	QPSK	1	137	15.53			17.1	0.0	
100	QPSK	1	271	15.40					
100	QPSK	135	0	15.25			17.1	0.0	
100	QPSK	135	69	15.34			17.1	0.0	
100	QPSK	135	138	15.29			17.1	0.0	
100	QPSK	270	0	15.25			17.1	0.0	
100	16QAM	1	1	15.57			17.1	0.0	
100	64QAM	1	1	15.22			17.1	0.0	
100	256QAM	1	1	15.28			17.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.18	15.34	15.21	17.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.21	15.38	15.25	17.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.30	15.29	15.18	17.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.29	15.35	15.25	17.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.19	15.29	15.22	17.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.22	15.28	15.16	17.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.27	15.34	15.21	17.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.23	15.32	15.21	17.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.27	15.25	15.23	17.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.21	15.35	15.17	17.1	0.0	

Part27Q 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.64	15.64				
100	PI2 BPSK	1	137	15.59			17.1	0.0	
100	PI2 BPSK	1	271	15.48					
100	PI2 BPSK	135	0	15.43			17.1	0.0	
100	PI2 BPSK	135	69	15.51			17.1	0.0	
100	PI2 BPSK	135	138	15.28			17.1	0.0	
100	PI2 BPSK	270	0	15.46			17.1	0.0	
100	QPSK	1	1	15.68					
100	QPSK	1	137	15.68			17.1	0.0	
100	QPSK	1	271	15.46					
100	QPSK	135	0	15.38			17.1	0.0	
100	QPSK	135	69	15.53			17.1	0.0	
100	QPSK	135	138	15.38			17.1	0.0	
100	QPSK	270	0	15.45			17.1	0.0	
100	16QAM	1	1	15.63			17.1	0.0	
100	64QAM	1	1	15.11			17.1	0.0	
100	256QAM	1	1	15.15			17.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.19	15.29	15.20	17.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.21	15.23	15.22	17.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.30	15.27	15.22	17.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.29	15.28	15.16	17.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.21	15.31	15.26	17.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.21	15.29	15.27	17.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.25	15.34	15.21	17.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.19	15.31	15.21	17.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.19	15.33	15.22	17.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.24	15.32	15.25	17.1	0.0	



n48 Part96 Main PA Ant5

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)				3270	3624.99	3679.98		
40	PI2 BPSK	1	1	18.70	19.07	19.00		
40	PI2 BPSK	1	53	18.54	19.03	18.99	20.3	0.0
40	PI2 BPSK	1	104	18.70	19.08	18.84		
40	PI2 BPSK	50	0	18.76	19.07	18.90	20.3	0.0
40	PI2 BPSK	50	28	18.80	19.15	18.92	20.3	0.0
40	PI2 BPSK	50	56	18.70	19.01	18.92	20.3	0.0
40	PI2 BPSK	100	0	18.82	19.05	18.70		
40	QPSK	1	1	18.90	19.28	18.93		
40	QPSK	1	53	18.81	19.03	18.85	20.3	0.0
40	QPSK	1	104	18.80	18.14	18.83		
40	QPSK	50	0	18.76	19.12	19.01	20.3	0.0
40	QPSK	50	28	18.67	19.09	18.89	20.3	0.0
40	QPSK	50	56	18.64	18.92	18.78		
40	QPSK	100	0	18.65	19.07	18.84	20.3	0.0
40	16QAM	1	1	18.80	19.18	18.96	20.3	0.0
40	64QAM	1	1	18.76	18.93	18.79	20.3	0.0
40	256QAM	1	1	19.24	19.18	19.13	20.3	0.0
Channel								
Frequency (MHz)				637690	641666	645500		
30	QPSK	1	1	18.77	19.25	18.81	20.3	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
20	QPSK	1	1	18.84	19.21	18.86	20.3	0.0
Channel								
Frequency (MHz)				637000	641666	646332		
10	QPSK	1	1	18.77	19.22	18.85	20.3	0.0

Part270 n77 Main PA Ant5

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	PI2 BPSK	1	1	18.69	18.74	18.79		
100	PI2 BPSK	1	137	18.85	18.84	18.39	19.7	0.0
100	PI2 BPSK	1	271	18.77	18.84	18.30		
100	PI2 BPSK	135	0	18.65	18.77	18.39	19.7	0.0
100	PI2 BPSK	135	69	18.65	18.68	18.21	19.7	0.0
100	PI2 BPSK	135	138	18.78	18.37	18.31	19.7	0.0
100	PI2 BPSK	270	0	18.75	18.69	18.24		
100	QPSK	1	1	18.79	19.01	18.53		
100	QPSK	1	137	18.72	18.79	18.39	19.7	0.0
100	QPSK	1	271	18.66	18.76	18.41		
100	QPSK	135	0	18.64	18.71	18.74	19.7	0.0
100	QPSK	135	69	18.76	18.88	18.39	19.7	0.0
100	QPSK	135	138	18.67	18.86	18.38		
100	QPSK	270	0	18.68	18.71	18.32	19.7	0.0
100	16QAM	1	1	18.58	18.41	18.21	19.7	0.0
100	64QAM	1	1	18.02	18.14	18.08	19.7	0.0
100	256QAM	1	1	17.86	17.99	17.93	19.7	0.0
Channel								
Frequency (MHz)				649668	656000	662334		
90	QPSK	1	1	18.68	18.93	18.49	19.7	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	18.76	18.92	18.44	19.7	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	18.70	18.97	18.42	19.7	0.0
Channel								
Frequency (MHz)				3740.02	3840	3950.01		
60	QPSK	1	1	18.71	18.97	18.39	19.7	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	18.73	18.87	18.50	19.7	0.0
Channel								
Frequency (MHz)				648000	656000	664000		
40	QPSK	1	1	18.72	18.90	18.40	19.7	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	18.72	18.98	18.39	19.7	0.0
Channel								
Frequency (MHz)				3740.01	3840	3950.02		
20	QPSK	1	1	18.73	18.89	18.41	19.7	0.0
Channel								
Frequency (MHz)				647168	656000	664834		
15	QPSK	1	1	18.75	18.94	18.46	19.7	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	18.70	18.94	18.43	19.7	0.0

Part270 n77 PC2 Main PA Ant5

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	PI2 BPSK	1	1	21.51	21.81	21.42		
100	PI2 BPSK	1	137	21.54	21.53	21.49	22.7	0.0
100	PI2 BPSK	1	271	21.55	21.45	21.51		
100	PI2 BPSK	135	0	21.59	21.74	21.83	22.7	0.0
100	PI2 BPSK	135	69	21.42	21.84	21.47	22.7	0.0
100	PI2 BPSK	135	138	21.48	21.54	21.43	22.7	0.0
100	PI2 BPSK	270	0	21.41	21.46	21.49		
100	QPSK	1	1	21.56	21.88	21.36		
100	QPSK	1	137	21.43	21.72	21.40	22.7	0.0
100	QPSK	1	271	21.48	21.87	21.21		
100	QPSK	135	0	21.41	21.50	21.41	22.7	0.0
100	QPSK	135	69	21.51	21.67	21.35	22.7	0.0
100	QPSK	135	138	21.42	21.61	21.31		
100	QPSK	270	0	21.45	21.62	21.33	22.7	0.0
100	16QAM	1	1	21.02	21.04	20.93	22.7	0.0
100	64QAM	1	1	21.55	21.65	21.28	22.7	0.0
100	256QAM	1	1	21.11	21.12	21.04	22.7	0.0
Channel								
Frequency (MHz)				649668	656000	662334		
90	QPSK	1	1	21.43	21.81	21.23	22.7	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	21.50	21.80	21.31	22.7	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	21.53	21.77	21.33	22.7	0.0
Channel								
Frequency (MHz)				3740.02	3840	3950.01		
60	QPSK	1	1	21.44	21.78	21.31	22.7	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	21.46	21.74	21.26	22.7	0.0
Channel								
Frequency (MHz)				648000	656000	664000		
40	QPSK	1	1	21.49	21.80	21.24	22.7	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	21.42	21.81	21.24	22.7	0.0
Channel								
Frequency (MHz)				3740.01	3840	3950.02		
20	QPSK	1	1	21.46	21.76	21.30	22.7	0.0
Channel								
Frequency (MHz)				647168	656000	664834		
15	QPSK	1	1	21.48	21.74	21.23	22.7	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	21.53	21.77	21.27	22.7	0.0



Part27Q n77 Main PA 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									
Frequency (MHz)									
100	PI/2 BPSK	1	1	18.58	18.58				
100	PI/2 BPSK	1	137	18.62	18.62		19.7	0.0	
100	PI/2 BPSK	1	271	18.50					
100	PI/2 BPSK	135	0	18.70			19.7	0.0	
100	PI/2 BPSK	135	69	18.64			19.7	0.0	
100	PI/2 BPSK	135	138	18.54			19.7	0.0	
100	PI/2 BPSK	270	0	18.57			19.7	0.0	
100	QPSK	1	1	18.73					
100	QPSK	1	137	18.58			19.7	0.0	
100	QPSK	1	271	18.71					
100	QPSK	135	0	18.65			19.7	0.0	
100	QPSK	135	69	18.72			19.7	0.0	
100	QPSK	135	138	18.68			19.7	0.0	
100	QPSK	270	0	18.65			19.7	0.0	
100	16QAM	1	1	18.54			19.7	0.0	
100	64QAM	1	1	18.82			19.7	0.0	
100	256QAM	1	1	18.58			19.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.38	18.59	18.53	19.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.47	18.57	18.51	19.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.47	18.57	18.51	19.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.37	18.61	18.54	19.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.41	18.53	18.57	19.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.42	18.51	18.52	19.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.37	18.54	18.58	19.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.40	18.53	18.58	19.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.44	18.58	18.56	19.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.44	18.59	18.51	19.7	0.0	

Part27Q n77 PC2 Main PA 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									
Frequency (MHz)									
100	PI/2 BPSK	1	1	21.88	21.88				
100	PI/2 BPSK	1	137	21.62	21.62		22.7	0.0	
100	PI/2 BPSK	1	271	21.47					
100	PI/2 BPSK	135	0	21.65			22.7	0.0	
100	PI/2 BPSK	135	69	21.51			22.7	0.0	
100	PI/2 BPSK	135	138	21.40			22.7	0.0	
100	PI/2 BPSK	270	0	21.51			22.7	0.0	
100	QPSK	1	1	21.75					
100	QPSK	1	137	21.52			22.7	0.0	
100	QPSK	1	271	21.89					
100	QPSK	135	0	21.54			22.7	0.0	
100	QPSK	135	69	21.63			22.7	0.0	
100	QPSK	135	138	21.62			22.7	0.0	
100	QPSK	270	0	21.59			22.7	0.0	
100	16QAM	1	1	21.54			22.7	0.0	
100	64QAM	1	1	21.59			22.7	0.0	
100	256QAM	1	1	21.57			22.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.49	21.40	21.53	22.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.55	21.49	21.45	22.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.51	21.45	21.47	22.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.52	21.44	21.51	22.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.47	21.46	21.47	22.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.43	21.39	21.48	22.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.52	21.38	21.42	22.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.45	21.44	21.42	22.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.45	21.42	21.44	22.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.50	21.45	21.45	22.7	0.0	



Part270 n78 Main PA 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.49	18.49				
100	PI2 BPSK	1	137	18.55			19.7	0.0	
100	PI2 BPSK	1	271	18.44					
100	PI2 BPSK	135	0	18.64			19.7	0.0	
100	PI2 BPSK	135	69	18.59			19.7	0.0	
100	PI2 BPSK	135	138	18.52			19.7	0.0	
100	PI2 BPSK	270	0	18.40			19.7	0.0	
100	QPSK	1	1	18.70					
100	QPSK	1	137	18.52			19.7	0.0	
100	QPSK	1	271	18.63					
100	QPSK	135	0	18.47			19.7	0.0	
100	QPSK	135	69	18.60			19.7	0.0	
100	QPSK	135	138	18.58			19.7	0.0	
100	QPSK	270	0	18.58			19.7	0.0	
100	16QAM	1	1	18.47			19.7	0.0	
100	64QAM	1	1	18.55			19.7	0.0	
100	256QAM	1	1	18.42			19.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.42	18.48	18.35	19.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.37	18.43	18.31	19.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.39	18.44	18.30	19.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.42	18.47	18.29	19.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.41	18.49	18.30	19.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.35	18.51	18.29	19.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.42	18.47	18.32	19.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.33	18.43	18.27	19.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.43	18.41	18.39	19.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.32	18.43	18.38	19.7	0.0	

Part27Q n78 Main PA 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.41	18.41				
100	PI2 BPSK	1	137	18.36			19.7	0.0	
100	PI2 BPSK	1	271	18.32					
100	PI2 BPSK	135	0	18.44			19.7	0.0	
100	PI2 BPSK	135	69	18.45			19.7	0.0	
100	PI2 BPSK	135	138	18.41			19.7	0.0	
100	PI2 BPSK	270	0	18.41			19.7	0.0	
100	QPSK	1	1	18.61					
100	QPSK	1	137	18.37			19.7	0.0	
100	QPSK	1	271	18.56					
100	QPSK	135	0	18.25			19.7	0.0	
100	QPSK	135	69	18.55			19.7	0.0	
100	QPSK	135	138	18.43			19.7	0.0	
100	QPSK	270	0	18.44			19.7	0.0	
100	16QAM	1	1	18.44			19.7	0.0	
100	64QAM	1	1	18.44			19.7	0.0	
100	256QAM	1	1	18.34			19.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.44	18.39	18.50	19.7	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.49	18.37	18.45	19.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.52	18.39	18.50	19.7	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.49	18.43	18.48	19.7	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.49	18.45	18.41	19.7	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.52	18.41	18.29	19.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.43	18.38	18.48	19.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.46	18.46	18.50	19.7	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.51	18.44	18.48	19.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.51	18.44	18.49	19.7	0.0	



Reduced Power Mode for Main PA DS12

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	1880	1900		
20	PI2 BPSK	1	1	21.91	21.98	21.88	23.0	0.0
20	PI2 BPSK	1	53	21.91	21.95	21.90		
20	PI2 BPSK	1	104	21.80	21.70	21.63		
20	PI2 BPSK	50	0	21.81	21.88	21.82	23.0	0.0
20	PI2 BPSK	50	28	21.83	21.85	21.81	23.0	0.0
20	PI2 BPSK	50	56	21.77	21.80	21.71	23.0	0.0
20	PI2 BPSK	100	0	21.59	21.68	21.62	23.0	0.0
20	QPSK	1	1	21.88	22.01	21.81	23.0	0.0
20	QPSK	1	53	21.90	21.92	21.83		
20	QPSK	1	104	21.74	21.81	21.75		
20	QPSK	50	0	21.83	21.91	21.87	23.0	0.0
20	QPSK	50	28	21.91	21.98	21.88	23.0	0.0
20	QPSK	50	56	21.89	21.88	21.84	23.0	0.0
20	QPSK	100	0	21.55	21.58	21.55	23.0	0.0
20	16QAM	1	1	21.41	21.44	21.38	23.0	0.0
20	16QAM	1	1	20.04	20.06	19.98	21.5	1.5
20	256QAM	1	1	18.73	18.76	18.72	19.5	3.5
Channel				371500	376000	380900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.80	21.94	21.71	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.83	21.91	21.73	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	21.86	21.93	21.74	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				168800	167300	167800		
Frequency (MHz)				834	838.5	839		
20	PI2 BPSK	1	1	23.05	23.11	23.02	24.0	0.0
20	PI2 BPSK	1	53	22.99	23.03	23.00		
20	PI2 BPSK	1	104	23.00	23.04	22.95		
20	PI2 BPSK	50	0	23.01	23.08	23.04	24.0	0.0
20	PI2 BPSK	50	28	23.01	23.07	23.02	24.0	0.0
20	PI2 BPSK	50	56	22.95	23.05	22.97	24.0	0.0
20	PI2 BPSK	100	0	22.99	23.04	22.99	24.0	0.0
20	QPSK	1	1	23.01	23.38	23.11	24.0	0.0
20	QPSK	1	53	23.00	23.05	22.95		
20	QPSK	1	104	22.89	22.98	22.85		
20	QPSK	50	0	23.03	23.12	23.03	24.0	0.0
20	QPSK	50	28	23.19	23.24	23.21	24.0	0.0
20	QPSK	50	56	23.02	23.10	23.00	24.0	0.0
20	QPSK	100	0	23.10	23.18	23.14	24.0	0.0
20	16QAM	1	1	23.20	23.23	23.21	24.0	0.0
20	16QAM	1	1	21.48	21.55	21.49	22.5	1.5
20	256QAM	1	1	20.10	20.15	20.08	20.5	3.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.99	22.98	23.03	24.0	0.0
Channel				167800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.96	22.91	23.03	24.0	0.0
Channel				167300	167300	167300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.96	22.95	23.02	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.74	22.77	22.68	24.0	0.0
40	PI2 BPSK	1	108	22.66	22.88	22.60		
40	PI2 BPSK	1	214	22.66	22.74	22.71		
40	PI2 BPSK	108	0	22.59	22.61	22.52	24.0	0.0
40	PI2 BPSK	108	54	22.53	22.59	22.51	24.0	0.0
40	PI2 BPSK	108	108	22.68	22.72	22.84	24.0	0.0
40	PI2 BPSK	216	0	22.59	22.65	22.60	24.0	0.0
40	QPSK	1	1	22.67	22.62	22.77	24.0	0.0
40	QPSK	1	108	22.71	22.75	22.71		
40	QPSK	1	214	22.67	22.77	22.73		
40	QPSK	108	0	22.49	22.58	22.51	24.0	0.0
40	QPSK	108	54	22.59	22.69	22.66	24.0	0.0
40	QPSK	108	108	22.58	22.60	22.57	24.0	0.0
40	QPSK	216	0	22.60	22.65	22.58	24.0	0.0
40	16QAM	1	1	22.63	22.72	22.68	24.0	0.0
40	16QAM	1	1	21.16	21.24	21.18	22.5	1.5
40	256QAM	1	1	19.59	19.67	19.62	20.5	3.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.59	22.76	22.65	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.61	22.73	22.73	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.61	22.73	22.70	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2567.5		
15	QPSK	1	1	22.64	22.78	22.74	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.58	22.77	22.71	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.59	22.79	22.70	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	23.32	23.35	23.26	24.0	0.0
15	PI/2 BPSK	1	40	23.15	23.23	23.18		
15	PI/2 BPSK	1	77	23.08	23.17	23.15		
15	PI/2 BPSK	36	0	23.15	23.23	23.15	24.0	0.0
15	PI/2 BPSK	36	22	23.11	23.18	23.14	24.0	0.0
15	PI/2 BPSK	36	43	23.09	23.13	23.10	24.0	0.0
15	PI/2 BPSK	75	0	23.19	23.26	23.16		
15	QPSK	1	1	23.27	23.37	23.29	24.0	0.0
15	QPSK	1	40	23.14	23.22	23.16		
15	QPSK	1	77	23.05	23.13	23.07		
15	QPSK	36	0	23.16	23.26	23.20	24.0	0.0
15	QPSK	36	22	23.23	23.32	23.28	24.0	0.0
15	QPSK	36	43	23.08	23.13	23.10	24.0	0.0
15	QPSK	75	0	23.14	23.24	23.21		
15	16QAM	1	1	23.11	23.17	23.08	24.0	0.0
15	64QAM	1	1	22.00	22.02	21.95	22.5	1.5
15	256QAM	1	1	20.40	20.46	20.40	20.5	3.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.25	23.34	23.28	24.0	0.0
Channel				140500	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.25	23.30	23.23	24.0	0.0

n14 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				158600	159000	159400		
Frequency (MHz)				792	793	794		
10	PI/2 BPSK	1	1	23.38	23.32	23.32	24.0	0.0
10	PI/2 BPSK	1	26	23.32	23.32	23.32		
10	PI/2 BPSK	1	50	23.34	23.34	23.34		
10	PI/2 BPSK	25	0	23.33	23.33	23.33	24.0	0.0
10	PI/2 BPSK	25	14	23.34	23.34	23.34	24.0	0.0
10	PI/2 BPSK	25	27	23.36	23.36	23.36	24.0	0.0
10	PI/2 BPSK	50	0	23.27	23.27	23.27		
10	QPSK	1	1	23.51	23.51	23.51	24.0	0.0
10	QPSK	1	26	23.28	23.28	23.28		
10	QPSK	1	50	23.18	23.18	23.18		
10	QPSK	25	0	23.27	23.27	23.27	24.0	0.0
10	QPSK	25	14	23.40	23.40	23.40	24.0	0.0
10	QPSK	25	27	23.30	23.30	23.30	24.0	0.0
10	QPSK	50	0	23.36	23.36	23.36		
10	16QAM	1	1	23.46	23.46	23.46	24.0	0.0
10	64QAM	1	1	22.50	22.50	22.50	23.0	1.0
10	256QAM	1	1	20.97	20.97	20.97	21.0	3.0
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	23.44	23.44	23.42	24.0	0.0

n25 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	375500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	21.92	22.02	21.97	23.0	0.0
20	PI/2 BPSK	1	53	21.88	21.92	21.83		
20	PI/2 BPSK	1	104	21.89	21.94	21.84		
20	PI/2 BPSK	50	0	21.98	21.97	21.90	23.0	0.0
20	PI/2 BPSK	50	28	21.97	21.94	21.87	23.0	0.0
20	PI/2 BPSK	50	56	21.84	21.90	21.88	23.0	0.0
20	PI/2 BPSK	100	0	21.88	21.97	21.88		
20	QPSK	1	1	21.93	22.08	21.78	23.0	0.0
20	QPSK	1	53	21.91	21.97	21.94		
20	QPSK	1	104	21.87	21.96	21.92		
20	QPSK	50	0	21.89	21.92	21.84	23.0	0.0
20	QPSK	50	28	21.91	21.97	21.88	23.0	0.0
20	QPSK	50	56	21.77	21.81	21.74	23.0	0.0
20	QPSK	100	0	21.81	21.88	21.81		
20	16QAM	1	1	21.96	22.04	22.01	23.0	0.0
20	64QAM	1	1	20.65	20.67	20.62	21.5	1.5
20	256QAM	1	1	19.98	19.92	19.97	19.5	3.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	21.89	21.90	21.74	23.0	0.0
Channel				371000	375500	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	21.89	21.97	21.68	23.0	0.0
Channel				370500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	21.88	21.90	21.67	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				164500	166500	167500		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.16	23.34	23.18	24.0	0.0
20	PI2 BPSK	1	53	23.01	23.20	23.01		
20	PI2 BPSK	1	104	23.07	23.23	23.05		
20	PI2 BPSK	50	0	23.08	23.27	23.06	24.0	0.0
20	PI2 BPSK	50	26	23.00	23.19	23.02	24.0	0.0
20	PI2 BPSK	50	56	23.01	23.21	23.05	24.0	0.0
20	PI2 BPSK	100	0	23.14	23.28	23.08		
20	QPSK	1	1	23.06	23.39	23.15		
20	QPSK	1	53	23.01	23.16	22.95	24.0	0.0
20	QPSK	1	104	23.01	23.18	23.03		
20	QPSK	50	0	23.05	23.23	23.03	24.0	0.0
20	QPSK	50	26	23.06	23.26	23.07	24.0	0.0
20	QPSK	50	56	23.00	23.20	23.01	24.0	0.0
20	QPSK	100	0	23.11	23.27	23.12		
20	16QAM	1	1	23.14	23.35	23.18	24.0	0.0
20	64QAM	1	1	21.53	21.71	21.50	22.5	1.5
20	256QAM	1	1	20.02	20.28	20.09	20.5	3.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	23.01	23.17	23.06	24.0	0.0
Channel				163500	165500	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.03	23.16	23.10	24.0	0.0
Channel				163300	165300	167300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.07	23.19	23.07	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				462000	462000	462000		
Frequency (MHz)				2310				
10	PI2 BPSK	1	1		21.15		22.0	0.0
10	PI2 BPSK	1	26		21.09			
10	PI2 BPSK	1	50		21.14			
10	PI2 BPSK	25	0		19.82		21.5	0.5
10	PI2 BPSK	25	14		20.82		22.0	0.0
10	PI2 BPSK	25	27		20.24		21.5	0.5
10	PI2 BPSK	50	0		20.61			
10	QPSK	1	1		21.17			
10	QPSK	1	26		21.12		22.0	0.0
10	QPSK	1	50		20.54			
10	QPSK	25	0		20.65		21.0	1.0
10	QPSK	25	14		20.62		22.0	0.0
10	QPSK	25	27		20.34			
10	QPSK	50	0		20.13		21.0	1.0
10	16QAM	1	1		19.93		21.0	1.0
10	64QAM	1	1		18.47		18.5	2.5
10	256QAM	1	1		17.22		17.5	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1		21.14	21.14	22.0	0.0

n66 Main PA Ant0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				345000	349000	352000		
Frequency (MHz)				1725	1745	1760		
40	PI2 BPSK	1	1	21.58	22.48	21.99	23.0	0.0
40	PI2 BPSK	1	108	21.58	22.43	21.96		
40	PI2 BPSK	1	214	21.83	22.51	22.02		
40	PI2 BPSK	108	0	21.16	22.04	21.49	22.5	0.5
40	PI2 BPSK	108	54	21.84	22.43	21.97	23.0	0.0
40	PI2 BPSK	108	108	21.20	21.99	21.55	22.5	0.5
40	PI2 BPSK	216	0	21.12	21.99	21.53		
40	QPSK	1	1	21.67	22.53	22.05		
40	QPSK	1	108	21.62	22.46	22.01	23.0	0.0
40	QPSK	1	214	21.63	22.43	21.99		
40	QPSK	108	0	20.62	21.56	21.07	22.0	1.0
40	QPSK	108	54	21.54	22.43	21.93	23.0	0.0
40	QPSK	108	108	20.58	21.40	21.04	22.0	1.0
40	QPSK	216	0	20.55	21.37	20.91		
40	16QAM	1	1	20.57	21.36	20.97	22.0	1.0
40	64QAM	1	1	19.19	19.99	19.59	20.5	2.5
40	256QAM	1	1	17.19	18.04	17.50	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.83	22.40	21.93	23.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.81	22.42	21.92	23.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
15	QPSK	1	1	21.55	22.49	21.91	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.53	22.47	21.97	23.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.83	22.45	21.98	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		21.87		23.0	0.0	
15	PI/2 BPSK	1	40		21.84				
15	PI/2 BPSK	1	77		21.89				
15	PI/2 BPSK	36	9		21.85		23.0	0.0	
15	PI/2 BPSK	36	22		21.74		23.0	0.0	
15	PI/2 BPSK	36	43		21.76		23.0	0.0	
15	PI/2 BPSK	75	0		21.77				
15	QPSK	1	1		21.91		23.0	0.0	
15	QPSK	1	40		21.84				
15	QPSK	1	77		21.89				
15	QPSK	36	0		21.75		23.0	0.0	
15	QPSK	36	22		21.81		23.0	0.0	
15	QPSK	36	43		21.71		23.0	0.0	
15	QPSK	75	0		21.77				
15	16QAM	1	1		21.77		23.0	0.0	
15	16QAM	1	1		20.15		21.5	1.5	
15	256QAM	1	1		18.53		19.5	3.5	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1		21.85	21.85	21.86	23.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1		21.88	21.83	21.89	23.0	0.0

n71 Main PA Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				134600					
Frequency (MHz)				673					
20	PI/2 BPSK	1	1		23.37	23.41	23.34	24.0	0.0
20	PI/2 BPSK	1	53		23.32	23.37	23.30		
20	PI/2 BPSK	1	104		23.19	23.27	23.18		
20	PI/2 BPSK	50	0		23.99	23.07	23.05	23.5	0.5
20	PI/2 BPSK	50	28		23.35	23.43	23.39	24.0	0.0
20	PI/2 BPSK	50	56		22.91	22.94	22.87	23.5	0.5
20	PI/2 BPSK	100	0		23.07	23.11	23.02		
20	QPSK	1	1		23.51	23.62	23.41	24.0	0.0
20	QPSK	1	53		23.47	23.50	23.42		
20	QPSK	1	104		23.32	23.35	23.25		
20	QPSK	50	0		22.56	22.62	22.57	23.0	1.0
20	QPSK	50	28		23.50	23.58	23.52	24.0	0.0
20	QPSK	50	56		22.42	22.49	22.41	23.0	1.0
20	QPSK	100	0		22.50	22.54	22.46		
20	16QAM	1	1		22.63	22.66	22.61	23.0	1.0
20	16QAM	1	1		20.79	20.86	20.80	21.5	2.5
20	256QAM	1	1		19.24	19.29	19.25	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1		23.47	23.43	23.35	24.0	0.0
Channel				133500	135100	136700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1		23.41	23.57	23.37	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1		23.43	23.59	23.33	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				509202	518698	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.93	22.96	22.94	24.0	0.0
100	PI2 BPSK	1	137	22.56	22.65	22.58		
100	PI2 BPSK	1	271	22.35	22.43	22.36		
100	PI2 BPSK	135	0	22.73	22.77	22.72	24.0	0.0
100	PI2 BPSK	135	69	22.59	22.62	22.52	24.0	0.0
100	PI2 BPSK	135	133	22.45	22.47	22.38		
100	PI2 BPSK	270	0	22.53	22.61	22.53	24.0	0.0
100	QPSK	1	1	22.90	23.01	22.98		
100	QPSK	1	137	22.85	22.88	22.86	24.0	0.0
100	QPSK	1	271	22.69	22.72	22.69		
100	QPSK	135	0	22.73	22.78	22.72	24.0	0.0
100	QPSK	135	69	22.79	22.94	22.77	24.0	0.0
100	QPSK	135	138	22.60	22.62	22.58	24.0	0.0
100	QPSK	270	0	22.96	22.96	22.91		
100	16QAM	1	1	22.55	22.60	22.55	24.0	0.0
100	64QAM	1	1	22.47	22.55	22.50	24.0	0.0
100	256QAM	1	1	22.24	22.33	22.23	22.5	1.5
Channel				509200	518698	528000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.84	22.91	22.90	24.0	0.0
Channel				507204	518698	529998		
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	22.82	22.93	22.90	24.0	0.0
Channel				506202	518698	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.81	22.93	22.95	24.0	0.0
Channel				505200	518698	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.82	22.99	22.93	24.0	0.0
Channel				504204	518698	532998		
Frequency (MHz)				2521.02	2592.99	2664.98		
50	QPSK	1	1	22.84	22.97	22.92	24.0	0.0
Channel				503202	518698	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.83	22.93	22.94	24.0	0.0
Channel				502200	518698	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.91	22.92	24.0	0.0
Channel				501204	518698	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.81	22.98	22.96	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 509202	Power Middle Ch. Freq. 518598	Power High Ch. Freq. 528000	Tune-up limit (dBm)	MPR (dB)
Channel				2544.01	2592.99	2640		
Frequency (MHz)								
100	Pl2 BPSK	1	1	25.78	25.81	25.76	27.0	0.0
100	Pl2 BPSK	1	127	25.72	25.77	25.70		
100	Pl2 BPSK	1	271	25.81	25.85	25.57		
100	Pl2 BPSK	135	0	25.70	25.74	25.70	26.5	0.5
100	Pl2 BPSK	135	69	25.58	25.65	25.62	27.0	0.0
100	Pl2 BPSK	135	138	25.85	25.71	25.68		
100	Pl2 BPSK	270	0	25.69	25.73	25.65	26.5	0.5
100	QPSK	1	1	25.84	26.02	25.71		
100	QPSK	1	137	25.89	25.98	25.95	27.0	0.0
100	QPSK	1	271	25.83	26.51	25.83		
100	QPSK	135	0	25.57	25.45	25.58	26.0	1.0
100	QPSK	135	69	25.38	25.65	25.38	27.0	0.0
100	QPSK	135	138	25.46	25.48	25.39		
100	QPSK	270	0	25.51	25.57	25.56	26.0	1.0
100	16QAM	1	1	25.66	25.81	25.55	26.0	1.0
100	64QAM	1	1	23.70	23.77	23.71	24.5	2.5
100	256QAM	1	1	22.34	22.38	22.34	22.5	4.5
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2544	2592.99	2644.98		
90	QPSK	1	1	25.54	25.96	25.62	27.0	0.0
Channel				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2532.02	2592.99	2648.99		
80	QPSK	1	1	25.57	25.94	25.62	27.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.57	25.93	25.62	27.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	25.58	25.94	25.68	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.98		
50	QPSK	1	1	25.82	26.00	25.68	27.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.59	25.97	25.65	27.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.54	25.95	25.66	27.0	0.0
Channel				501004	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.61	25.93	25.61	27.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	13.78	13.85	13.84	14.8	0.0
20	PI2 BPSK	1	53	13.65	13.63	13.75		
20	PI2 BPSK	1	104	13.63	13.70	13.65		
20	PI2 BPSK	50	0	13.63	13.68	13.60	14.8	0.0
20	PI2 BPSK	50	28	13.75	13.95	13.58	14.8	0.0
20	PI2 BPSK	50	86	13.57	13.74	13.90		
20	PI2 BPSK	100	0	13.48	13.79	13.55	14.8	0.0
20	QPSK	1	1	14.01	14.09	13.98		
20	QPSK	1	53	13.80	13.89	14.00	14.8	0.0
20	QPSK	1	104	13.74	13.85	13.78		
20	QPSK	50	0	13.75	13.84	13.75	14.8	0.0
20	QPSK	50	28	13.95	14.03	13.75	14.8	0.0
20	QPSK	50	86	13.73	13.85	13.82		
20	QPSK	100	0	13.63	13.80	13.68	14.8	0.0
20	16QAM	1	1	13.78	13.90	13.70	14.8	0.0
20	64QAM	1	1	13.77	13.88	13.78	14.8	0.0
20	256QAM	1	1	13.65	13.69	13.78	14.8	0.0
Channel								
Frequency (MHz)				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.62	13.65	13.35	14.8	0.0
Channel								
Frequency (MHz)				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	13.57	13.85	13.38	14.8	0.0
Channel								
Frequency (MHz)				37050	37600	38150	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	13.60	13.67	13.45	14.8	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	19.17	19.38	18.95		
20	PI2 BPSK	1	53	19.05	19.18	18.79	20.1	0.0
20	PI2 BPSK	1	104	19.01	19.24	18.90		
20	PI2 BPSK	50	0	18.74	18.86	18.88	20.1	0.0
20	PI2 BPSK	50	28	19.00	19.02	18.95	20.1	0.0
20	PI2 BPSK	50	86	18.69	18.99	18.82		
20	PI2 BPSK	100	0	18.73	18.85	18.88	20.1	0.0
20	QPSK	1	1	19.25	19.41	19.24		
20	QPSK	1	53	19.17	19.29	18.98	20.1	0.0
20	QPSK	1	104	19.17	19.26	19.06		
20	QPSK	50	0	18.91	18.92	19.14	20.1	0.0
20	QPSK	50	28	19.04	19.24	19.14	20.1	0.0
20	QPSK	50	86	18.92	18.95	18.95		
20	QPSK	100	0	18.92	18.95	18.96	20.1	0.0
20	16QAM	1	1	18.85	18.98	18.98	20.1	0.0
20	64QAM	1	1	18.89	19.03	18.97	20.1	0.0
20	256QAM	1	1	18.95	18.98	19.02	20.1	0.0
Channel								
Frequency (MHz)				16830	16730	16830	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.21	19.31	19.18	20.1	0.0
Channel								
Frequency (MHz)				16860	16730	16890	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.20	19.34	19.13	20.1	0.0
Channel								
Frequency (MHz)				16830	16730	16930	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.22	19.31	19.10	20.1	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	14.38	14.53	14.34		
40	PI2 BPSK	1	108	14.45	14.42	14.53	15.9	0.0
40	PI2 BPSK	1	214	14.02	14.18	14.14		
40	PI2 BPSK	108	0	14.21	14.41	14.29	15.9	0.0
40	PI2 BPSK	108	54	14.31	14.29	14.20	15.9	0.0
40	PI2 BPSK	108	108	14.19	14.03	14.22		
40	PI2 BPSK	216	0	14.28	14.28	14.22	15.9	0.0
40	QPSK	1	1	14.49	14.82	14.65		
40	QPSK	1	108	14.45	14.55	14.65	15.9	0.0
40	QPSK	1	214	14.13	14.57	14.41		
40	QPSK	108	0	14.35	14.49	14.30	15.9	0.0
40	QPSK	108	54	14.39	14.54	14.21	15.9	0.0
40	QPSK	108	108	14.47	14.33	14.24		
40	QPSK	216	0	14.41	14.46	14.28	15.9	0.0
40	16QAM	1	1	14.31	14.28	14.03	15.9	0.0
40	64QAM	1	1	14.16	14.18	14.28	15.9	0.0
40	256QAM	1	1	14.21	14.28	14.32	15.9	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.38	14.28	14.49	15.9	0.0
Channel								
Frequency (MHz)				50250	50700	51150	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	14.30	14.27	14.32	15.9	0.0
Channel								
Frequency (MHz)				50300	50700	51200	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	14.30	14.31	14.30	15.9	0.0
Channel								
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.29	14.49	14.48	15.9	0.0
Channel								
Frequency (MHz)				50700	50700	51300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.47	14.50	14.50	15.9	0.0
Channel								
Frequency (MHz)				50950	50700	51350	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.42	14.43	14.39	15.9	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				706.5	707.5	708.5		
Frequency (MHz)				20.27	20.33	20.23	21.3	0.0
15	PI/2 BPSK	1	1	20.20	20.11	19.94		
15	PI/2 BPSK	1	77	20.31	20.09	20.12		
15	PI/2 BPSK	36	0	20.12	20.01	20.01	21.3	0.0
15	PI/2 BPSK	36	22	20.18	20.28	20.26	21.3	0.0
15	PI/2 BPSK	36	43	19.99	20.13	20.12	21.3	0.0
15	PI/2 BPSK	75	0	20.03	20.21	20.06	21.3	0.0
15	QPSK	1	1	20.43	20.51	20.38		
15	QPSK	1	40	20.28	20.24	20.13	21.3	0.0
15	QPSK	1	77	20.39	20.25	20.28		
15	QPSK	36	0	20.15	20.28	20.25	21.3	0.0
15	QPSK	36	22	20.21	20.41	20.29	21.3	0.0
15	QPSK	36	43	20.15	20.17	20.23	21.3	0.0
15	QPSK	75	0	20.08	20.38	20.13	21.3	0.0
15	16QAM	1	1	20.04	20.04	20.11	21.3	0.0
15	16QAM	1	1	19.90	20.07	20.02	21.3	0.0
15	256QAM	1	1	20.42	20.49	20.47	21.0	0.3
Channel				14060	14150	14220	Tune-up limit (dBm)	MPR
Frequency (MHz)				704	707.5	711	21.3	0.0
10	QPSK	1	1	20.06	20.06	20.04	21.3	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR
Frequency (MHz)				701.5	707.5	713.5	21.3	0.0
5	QPSK	1	1	19.92	19.99	20.17	21.3	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				793				
Frequency (MHz)				20.24			21.5	0.0
10	PI/2 BPSK	1	1	20.17				
10	PI/2 BPSK	1	86	20.03				
10	PI/2 BPSK	25	0	20.12			21.5	0.0
10	PI/2 BPSK	25	14	20.02			21.5	0.0
10	PI/2 BPSK	25	27	20.12			21.5	0.0
10	PI/2 BPSK	50	0	20.00			21.5	0.0
10	QPSK	1	1	20.49				
10	QPSK	1	26	20.30			21.5	0.0
10	QPSK	1	50	20.27				
10	QPSK	25	0	20.17			21.5	0.0
10	QPSK	25	14	20.38			21.5	0.0
10	QPSK	25	27	20.15			21.5	0.0
10	QPSK	50	0	20.21			21.5	0.0
10	16QAM	1	1	20.10			21.5	0.0
10	16QAM	1	1	20.12			21.5	0.0
10	256QAM	1	1	20.21			21.0	0.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR
Frequency (MHz)				790.5	793	795.5	21.5	0.0
5	QPSK	1	1	20.22	20.24	20.35	21.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1882.5	1905		
Frequency (MHz)				13.96	13.95	13.86	14.8	0.0
20	PI/2 BPSK	1	1	13.75	13.80	13.96		
20	PI/2 BPSK	1	53	13.72	13.83	13.70		
20	PI/2 BPSK	50	0	13.69	13.87	13.69	14.8	0.0
20	PI/2 BPSK	50	28	13.81	14.04	13.81	14.8	0.0
20	PI/2 BPSK	50	86	13.77	13.81	13.66		
20	PI/2 BPSK	100	0	13.70	13.86	13.57	14.8	0.0
20	QPSK	1	1	14.02	14.15	14.09		
20	QPSK	1	53	13.91	13.92	14.00	14.8	0.0
20	QPSK	1	104	13.75	13.85	13.94		
20	QPSK	50	0	13.95	14.03	13.90	14.8	0.0
20	QPSK	50	28	14.01	14.09	13.98	14.8	0.0
20	QPSK	50	56	13.91	13.96	13.81		
20	QPSK	100	0	13.94	14.03	13.82	14.8	0.0
20	16QAM	1	1	13.87	13.96	13.91	14.8	0.0
20	16QAM	1	1	13.87	13.93	13.92	14.8	0.0
20	256QAM	1	1	13.87	13.84	13.91	14.8	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1882.5	1910	14.8	0.0
15	QPSK	1	1	13.80	14.06	13.72	14.8	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1882.5	1910	14.8	0.0
10	QPSK	1	1	13.97	13.99	13.94	14.8	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	14.8	0.0
5	QPSK	1	1	13.80	14.02	13.89	14.8	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	831.5	839		
20	PI/2 BPSK	1	1	19.28	19.40	19.09	20.1	0.0
20	PI/2 BPSK	1	53	19.14	19.27	19.88		
20	PI/2 BPSK	1	104	19.06	19.27	19.02		
20	PI/2 BPSK	50	0	18.80	18.95	18.99	20.1	0.0
20	PI/2 BPSK	50	26	19.03	19.09	19.03	20.1	0.0
20	PI/2 BPSK	50	56	18.78	19.04	18.95		
20	PI/2 BPSK	100	0	18.83	18.92	18.93	20.1	0.0
20	QPSK	1	1	19.36	19.44	19.27		
20	QPSK	1	53	19.20	19.35	19.00	20.1	0.0
20	QPSK	1	104	19.21	19.36	19.13		
20	QPSK	50	0	19.00	19.03	19.16	20.1	0.0
20	QPSK	50	26	19.15	19.26	19.23	20.1	0.0
20	QPSK	50	56	19.01	19.09	19.08		
20	QPSK	100	0	19.00	19.15	19.01	20.1	0.0
20	16QAM	1	1	18.97	19.10	19.03	20.1	0.0
20	64QAM	1	1	18.99	19.09	19.01	20.1	0.0
20	256QAM	1	1	19.04	19.03	19.12	20.1	0.0
Channel								
Frequency (MHz)				16380	16630	16830	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.09	19.17	19.02	20.1	0.0
Channel								
Frequency (MHz)				16380	16630	16830	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.07	19.22	19.20	20.1	0.0
Channel								
Frequency (MHz)				16330	16630	16830	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.08	19.10	19.03	20.1	0.0

n30 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)				2310				
10	PI/2 BPSK	1	1	15.07			15.6	0.0
10	PI/2 BPSK	1	26	15.00				
10	PI/2 BPSK	1	50	15.08				
10	PI/2 BPSK	25	0	14.89			15.6	0.0
10	PI/2 BPSK	25	14	14.75				
10	PI/2 BPSK	25	27	14.64			15.6	0.0
10	PI/2 BPSK	50	0	14.63				
10	QPSK	1	1	15.21				
10	QPSK	1	26	15.05			15.6	0.0
10	QPSK	1	50	15.12				
10	QPSK	25	0	14.76			15.6	0.0
10	QPSK	25	14	14.91				
10	QPSK	25	27	14.82			15.6	0.0
10	QPSK	50	0	14.88				
10	16QAM	1	1	14.76			15.6	0.0
10	64QAM	1	1	14.85			15.6	0.0
10	256QAM	1	1	14.78			15.6	0.0
Channel								
Frequency (MHz)				46150	46200	46250	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.64	14.60	14.52	15.6	0.0

n66 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)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.79	15.80	15.77	17.0	0.0
40	PI/2 BPSK	1	109	15.83	15.68	15.75		
40	PI/2 BPSK	1	214	15.77	15.64	15.52		
40	PI/2 BPSK	108	0	15.75	15.57	15.53	17.0	0.0
40	PI/2 BPSK	108	54	15.83	15.58	15.64	17.0	0.0
40	PI/2 BPSK	108	108	15.71	15.75	15.66		
40	PI/2 BPSK	216	0	15.72	15.64	15.77	17.0	0.0
40	QPSK	1	1	15.93	15.95	15.90		
40	QPSK	1	108	15.88	15.90	15.84	17.0	0.0
40	QPSK	1	214	15.86	15.88	15.73		
40	QPSK	108	0	15.83	15.80	15.76	17.0	0.0
40	QPSK	108	54	15.83	15.90	15.79	17.0	0.0
40	QPSK	108	108	15.86	15.82	15.83		
40	QPSK	216	0	15.80	15.89	15.86	17.0	0.0
40	16QAM	1	1	15.76	15.56	15.54	17.0	0.0
40	64QAM	1	1	15.75	15.70	15.71	17.0	0.0
40	256QAM	1	1	15.77	15.58	15.52	17.0	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.77	15.65	15.70	17.0	0.0
Channel								
Frequency (MHz)				34900	34900	35400	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.85	15.63	15.70	17.0	0.0
Channel								
Frequency (MHz)				34350	34900	35450	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.75	15.76	15.64	17.0	0.0
Channel								
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.84	15.82	15.73	17.0	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.73	15.59	15.57	17.0	0.0



n70 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				1702.5	340500			
Frequency (MHz)								
15	PI/2 BPSK	1	1	14.64			15.6	0.0
15	PI/2 BPSK	1	40	14.31				
15	PI/2 BPSK	1	77	14.30				
15	PI/2 BPSK	36	0	14.42			15.6	0.0
15	PI/2 BPSK	36	22	14.57			15.6	0.0
15	PI/2 BPSK	36	43	14.30				
15	PI/2 BPSK	75	0	14.37			15.6	0.0
15	QPSK	1	1	14.71				
15	QPSK	1	40	14.55			15.6	0.0
15	QPSK	1	77	14.49				
15	QPSK	36	0	14.49			15.6	0.0
15	QPSK	36	22	14.85			15.6	0.0
15	QPSK	36	43	14.50			15.6	0.0
15	QPSK	75	0	14.82			15.6	0.0
15	16QAM	1	1	14.44			15.6	0.0
15	64QAM	1	1	14.37			15.6	0.0
15	256QAM	1	1	14.23			15.6	0.0
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR
Frequency (MHz)								
10	QPSK	1	1	14.43	14.32	14.34	15.6	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR
Frequency (MHz)								
5	QPSK	1	1	14.42	14.31	14.33	15.6	0.0

n71 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				134600	135100	135600		
Frequency (MHz)								
20	PI/2 BPSK	1	1	21.36	21.35	21.28		
20	PI/2 BPSK	1	53	21.12	21.15	20.96	22.8	0.0
20	PI/2 BPSK	1	104	21.29	21.47	21.09		
20	PI/2 BPSK	50	0	21.07	21.22	21.20	22.8	0.0
20	PI/2 BPSK	50	26	21.31	21.26	21.11	22.8	0.0
20	PI/2 BPSK	50	86	21.04	21.17	21.02		
20	PI/2 BPSK	100	0	21.25	21.29	20.85	22.8	0.0
20	QPSK	1	1	21.49	21.55	21.38		
20	QPSK	1	53	21.29	21.42	21.18	22.8	0.0
20	QPSK	1	104	21.42	21.82	21.22		
20	QPSK	50	0	21.25	21.45	21.31	22.8	0.0
20	QPSK	50	26	21.41	21.52	21.35	22.8	0.0
20	QPSK	50	66	21.27	21.28	21.24	22.8	0.0
20	QPSK	100	0	21.31	21.44	21.10		
20	16QAM	1	1	21.05	21.07	21.14	22.8	0.0
20	64QAM	1	1	21.35	21.41	21.35	22.0	0.8
20	256QAM	1	1	19.74	19.78	19.68	20.0	2.8
Channel				134100	135100	136100	Tune-up limit (dBm)	MPR
Frequency (MHz)								
15	QPSK	1	1	21.14	21.08	21.20	22.8	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR
Frequency (MHz)								
10	QPSK	1	1	21.08	21.11	21.18	22.8	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR
Frequency (MHz)								
5	QPSK	1	1	21.24	21.16	21.16	22.8	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	15.63	15.60	15.46		
100	PI2 BPSK	1	137	15.23	15.37	15.37	16.6	0.0
100	PI2 BPSK	1	271	15.55	15.42	15.41		
100	PI2 BPSK	135	0	15.44	15.38	15.49	18.6	0.0
100	PI2 BPSK	135	69	15.35	15.40	15.36	18.6	0.0
100	PI2 BPSK	135	138	15.27	15.32	15.31	18.6	0.0
100	PI2 BPSK	270	0	15.31	15.36	15.16	18.6	0.0
100	QPSK	1	1	15.72	15.74	15.65		
100	QPSK	1	137	15.45	15.54	15.50	18.6	0.0
100	QPSK	1	271	15.69	15.67	15.46		
100	QPSK	135	0	15.50	15.51	15.55	18.6	0.0
100	QPSK	135	69	15.58	15.83	15.61	18.6	0.0
100	QPSK	135	138	15.49	15.38	15.46	18.6	0.0
100	QPSK	270	0	15.47	15.63	15.35	18.6	0.0
100	16QAM	1	1	15.38	15.39	15.54	18.6	0.0
100	64QAM	1	1	15.47	15.46	15.46	18.6	0.0
100	256QAM	1	1	15.36	15.39	15.35	18.6	0.0
Channel				509200	518998	528998		
Frequency (MHz)				2544	2592.99	2644.98		
90	QPSK	1	1	15.34	15.60	15.49	18.6	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	15.32	15.57	15.43	18.6	0.0
Channel				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.45	15.46	15.48	18.6	0.0
Channel				505200	518998	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.38	15.47	15.41	18.6	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.38	15.38	15.40	18.6	0.0
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.31	15.57	15.39	19.6	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.32	15.41	15.45	18.6	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.39	15.38	15.50	18.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.55	18.64	18.46		
100	PI2 BPSK	1	137	18.32	18.47	18.25	19.6	0.0
100	PI2 BPSK	1	271	18.41	18.54	18.19		
100	PI2 BPSK	135	0	18.35	18.28	18.30	19.6	0.0
100	PI2 BPSK	135	69	18.46	18.46	18.48	19.6	0.0
100	PI2 BPSK	135	138	18.30	18.20	18.19	19.6	0.0
100	PI2 BPSK	270	0	18.38	18.29	18.29	19.6	0.0
100	QPSK	1	1	18.67	18.78	18.64		
100	QPSK	1	137	18.53	18.72	18.50	19.6	0.0
100	QPSK	1	271	18.47	18.61	18.41		
100	QPSK	135	0	18.54	18.46	18.49	19.6	0.0
100	QPSK	135	69	18.61	18.66	18.47	19.6	0.0
100	QPSK	135	138	18.52	18.39	18.34	19.6	0.0
100	QPSK	270	0	18.48	18.55	18.33	19.6	0.0
100	16QAM	1	1	18.39	18.32	18.35	19.6	0.0
100	64QAM	1	1	18.39	18.29	18.22	19.6	0.0
100	256QAM	1	1	18.51	18.25	18.34	19.6	0.0
Channel				509200	518998	528998		
Frequency (MHz)				2544	2592.99	2644.98		
90	QPSK	1	1	18.47	18.39	18.43	19.6	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	18.31	18.42	18.35	19.6	0.0
Channel				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.20	18.22	18.30	19.6	0.0
Channel				505200	518998	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.46	18.27	18.40	19.6	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.31	18.20	18.45	19.6	0.0
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.34	18.43	18.38	19.6	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.31	18.36	18.30	19.6	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.50	18.30	18.26	19.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				639000	641666	645332		
Frequency (MHz)				3270	3624.99	3679.98		
40	PI2 BPSK	1	1	15.09	15.36	15.25		
40	PI2 BPSK	1	50	14.88	15.00	14.90	16.2	0.0
40	PI2 BPSK	1	104	14.99	15.11	15.00		
40	PI2 BPSK	50	0	14.93	15.20	15.05	16.2	0.0
40	PI2 BPSK	50	28	15.14	15.18	14.94	16.2	0.0
40	PI2 BPSK	50	56	14.94	14.95	14.84		
40	PI2 BPSK	100	0	15.00	15.01	14.87	16.2	0.0
40	QPSK	1	1	15.33	15.40	15.29		
40	QPSK	1	53	15.12	15.23	15.09	16.2	0.0
40	QPSK	1	104	15.16	15.25	15.15		
40	QPSK	50	0	15.11	15.26	15.08	16.2	0.0
40	QPSK	50	28	15.19	15.31	15.21	16.2	0.0
40	QPSK	50	56	15.04	15.16	15.03		
40	QPSK	100	0	15.21	15.26	15.04	16.2	0.0
40	16QAM	1	1	15.04	15.21	15.03	16.2	0.0
40	64QAM	1	1	15.08	15.17	15.10	16.2	0.0
40	256QAM	1	1	15.07	15.16	15.11	16.2	0.0
Channel				637666	641666	645566		
Frequency (MHz)				3255.02	3624.99	3684.99		
30	QPSK	1	1	14.93	15.17	14.96	16.2	0.0
Channel				637334	641666	646000		
Frequency (MHz)				3250.02	3624.99	3690		
20	QPSK	1	1	15.01	15.15	14.98	16.2	0.0
Channel				637000	641666	646332		
Frequency (MHz)				3255	3624.99	3684.98		
10	QPSK	1	1	15.09	15.05	15.08	16.2	0.0



Part270 n77 Main PA Ant1									
BW [MHz]	Modulation	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					650000	656000	662000		
Frequency (MHz)					3750	3840	3930		
100	PI2 BPSK	1	1	1	11.65	11.53	11.51	13.5	0.0
100	PI2 BPSK	1	1	137	11.52	11.57	11.55		
100	PI2 BPSK	1	271	1	11.64	11.58	11.58		
100	PI2 BPSK	135	0	1	11.56	11.72	11.52	13.5	0.0
100	PI2 BPSK	135	69	1	11.58	11.52	11.52	13.5	0.0
100	PI2 BPSK	135	138	1	11.64	11.77	11.55		
100	PI2 BPSK	270	0	1	11.54	11.53	11.53	13.5	0.0
100	QPSK	1	1	1	11.82	11.96	11.93		
100	QPSK	1	137	1	11.68	11.51	11.60	13.5	0.0
100	QPSK	1	271	1	11.62	11.64	11.63		
100	QPSK	135	0	1	11.62	11.64	11.75	13.5	0.0
100	QPSK	135	69	1	11.72	11.94	11.53	13.5	0.0
100	QPSK	135	138	1	11.59	11.64	11.54		
100	QPSK	270	0	1	11.64	11.77	11.55	13.5	0.0
100	16QAM	1	1	1	11.54	11.67	11.54	13.5	0.0
100	64QAM	1	1	1	11.61	11.53	11.56	13.5	0.0
100	256QAM	1	1	1	11.81	11.65	11.56	13.5	0.0
Channel					659998	659998	660000	MPR	
Frequency (MHz)					3745.02	3840	3935.01	(dB)	
90	QPSK	1	1	1	11.51	11.52	11.55	13.5	0.0
Channel					649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)					3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	1	11.51	11.59	11.58	13.5	0.0
Channel					649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)					3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	1	11.54	11.53	11.57	13.5	0.0
Channel					648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)					3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	1	11.57	11.53	11.52	13.5	0.0
Channel					648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)					3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	1	11.54	11.58	11.56	13.5	0.0
Channel					648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)					3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	1	11.55	11.51	11.55	13.5	0.0
Channel					647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)					3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	1	11.54	11.52	11.56	13.5	0.0
Channel					647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)					3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	1	11.52	11.61	11.58	13.5	0.0
Channel					647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)					3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	1	11.51	11.52	11.51	13.5	0.0
Channel					647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)					3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	1	11.57	11.52	11.55	13.5	0.0

Part270 n77 PC2 Main PA Ant1									
BW [MHz]	Modulation	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					650000	656000	662000		
Frequency (MHz)					3750	3840	3930		
100	PI2 BPSK	1	1	1	14.73	14.52	14.67	16.5	0.0
100	PI2 BPSK	1	137	1	14.52	14.53	14.51		
100	PI2 BPSK	1	271	1	14.54	14.59	14.53		
100	PI2 BPSK	135	0	1	14.57	14.54	14.55	16.5	0.0
100	PI2 BPSK	135	69	1	14.55	14.59	14.52	16.5	0.0
100	PI2 BPSK	135	138	1	14.57	14.84	14.54		
100	PI2 BPSK	270	0	1	14.53	14.55	14.52	16.5	0.0
100	QPSK	1	1	1	14.85	14.94	14.99		
100	QPSK	1	137	1	14.61	14.77	14.61	16.5	0.0
100	QPSK	1	271	1	14.67	14.74	14.67		
100	QPSK	135	0	1	14.57	14.69	14.72	16.5	0.0
100	QPSK	135	69	1	14.54	14.67	14.54	16.5	0.0
100	QPSK	135	138	1	14.72	14.80	14.52		
100	QPSK	270	0	1	14.56	14.75	14.56	16.5	0.0
100	16QAM	1	1	1	14.52	14.59	14.52	16.5	0.0
100	64QAM	1	1	1	14.63	14.82	14.56	16.5	0.0
100	256QAM	1	1	1	14.84	14.56	14.55	16.5	0.0
Channel					649998	656000	662334	Tune-up limit	MPR
Frequency (MHz)					3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	1	14.60	14.59	14.51	16.5	0.0
Channel					649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)					3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	1	14.54	14.59	14.59	16.5	0.0
Channel					649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)					3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	1	14.59	14.60	14.67	16.5	0.0
Channel					648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)					3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	1	14.55	14.58	14.58	16.5	0.0
Channel					648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)					3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	1	14.52	14.59	14.55	16.5	0.0
Channel					648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)					3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	1	14.57	14.60	14.57	16.5	0.0
Channel					647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)					3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	1	14.53	14.62	14.53	16.5	0.0
Channel					647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)					3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	1	14.59	14.62	14.51	16.5	0.0
Channel					647168	656000	664834	Tune-up limit	MPR
Frequency (MHz)					3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	1	14.55	14.64	14.61	16.5	0.0
Channel					647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)					3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	1	14.53	14.62	14.55	16.5	0.0

Part27Q n77 Main PA Ant1									
BW [MHz]	Modulation	Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633000	633334	633668		
Frequency (MHz)					3485	3500.01	3505.02		
100	PI2 BPSK	1	1	1	11.94	11.94	11.94	13.5	0.0
100	PI2 BPSK	1	137	1	11.94	11.94	11.94		
100	PI2 BPSK	1	271	1	11.92	11.92	11.92		
100	PI2 BPSK	135	0	1	11.95	11.95	11.95	13.5	0.0
100	PI2 BPSK	135	69	1	11.95	11.95	11.95	13.5	0.0
100	PI2 BPSK	135	138	1	11.94	11.94	11.94		
100	PI2 BPSK	270	0	1	11.73	11.73	11.73	13.5	0.0
100	QPSK	1	1	1	12.18	12.18	12.18		
100	QPSK	1	137	1	11.98	11.98	11.98	13.5	0.0
100	QPSK	1	271	1	11.96	11.96	11.96		
100	QPSK	135	0	1	12.10	12.10	12.10	13.5	0.0
100	QPSK	135	69	1	12.11	12.11	12.11	13.5	0.0
100	QPSK	135	138	1	12.00	12.00	12.00		
100	QPSK	270	0	1	12.02	12.02	12.02	13.5	0.0
100	16QAM	1	1	1	12.13	12.13	12.13	13.5	0.0
100	64QAM	1	1	1	11.89	11.89	11.89	13.5	0.0
100	256QAM	1	1	1	11.97	11.97	11.97	13.5	0.0
Channel					633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)					3485	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	1	11.86	12.05	11.96	13.5	0.0
Channel					632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)					3480.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	1	11.68	11.85	11.85	13.5	0.0
Channel					632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)					3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	1	11.70	12.00	11.72	13.5	0.0
Channel					632000	633334	635000	Tune-up limit	MPR
Frequency (MHz)					3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	1	11.83	11.85	11.77	13.5	0.0
Channel					631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)					3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	1	11.79	11.78	11.72	13.5	0.0
Channel					631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)					3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	1	11.82	11.92	11.87	13.5	0.0
Channel					631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)					3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	1	11.71	11.96	11.86	13.5	0.0
Channel					630668	633334	636000	Tune-up limit	MPR



Part27Q 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)	(dB)
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.88	3500.01				
100	PI2 BPSK	1	1	14.88	3500.01		16.5	0.0	
100	PI2 BPSK	1	271	14.78					
100	PI2 BPSK	135	0	14.77			16.5	0.0	
100	PI2 BPSK	135	69	14.83			16.5	0.0	
100	PI2 BPSK	135	138	14.85			16.5	0.0	
100	PI2 BPSK	270	0	14.84			16.5	0.0	
100	QPSK	1	1	15.18					
100	QPSK	1	137	14.89			16.5	0.0	
100	QPSK	1	271	14.93					
100	QPSK	135	0	14.90			16.5	0.0	
100	QPSK	135	69	14.99			16.5	0.0	
100	QPSK	135	138	14.97			16.5	0.0	
100	QPSK	270	0	14.98			16.5	0.0	
100	16QAM	1	1	14.97			16.5	0.0	
100	64QAM	1	1	14.79			16.5	0.0	
100	256QAM	1	1	14.78			16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.64	14.70	14.86	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.41	14.54	14.68	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.51	14.54	14.77	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.57	14.59	14.78	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.53	14.56	14.69	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.59	14.59	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.51	14.60	14.76	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.54	14.55	14.74	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.53	14.52	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.52	14.54	14.72	16.5	0.0	

Part27Q 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)	(dB)
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	11.54	3750	3750			
100	PI2 BPSK	1	1	11.54	3750	3750	13.5	0.0	
100	PI2 BPSK	1	137	11.59					
100	PI2 BPSK	1	271	11.69					
100	PI2 BPSK	135	0	11.58			13.5	0.0	
100	PI2 BPSK	135	69	11.57			13.5	0.0	
100	PI2 BPSK	135	138	11.53			13.5	0.0	
100	PI2 BPSK	270	0	11.51			13.5	0.0	
100	QPSK	1	1	11.70					
100	QPSK	1	137	11.59			13.5	0.0	
100	QPSK	1	271	11.61					
100	QPSK	135	0	11.52			13.5	0.0	
100	QPSK	135	69	11.65			13.5	0.0	
100	QPSK	135	138	11.52			13.5	0.0	
100	QPSK	270	0	11.51			13.5	0.0	
100	16QAM	1	1	11.52			13.5	0.0	
100	64QAM	1	1	11.54			13.5	0.0	
100	256QAM	1	1	11.51			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.54	11.69	11.59	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.55	11.53	11.53	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.54	11.66	11.52	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.55	11.66	11.58	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.51	11.54	11.59	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.53	11.53	11.52	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.57	11.63	11.54	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.53	11.65	11.52	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.57	11.56	11.54	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.57	11.68	11.56	13.5	0.0	

Part27Q 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)	(dB)
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	11.84	3500.01				
100	PI2 BPSK	1	1	11.84	3500.01		13.5	0.0	
100	PI2 BPSK	1	271	11.89					
100	PI2 BPSK	135	0	11.90			13.5	0.0	
100	PI2 BPSK	135	69	11.87			13.5	0.0	
100	PI2 BPSK	135	138	11.89			13.5	0.0	
100	PI2 BPSK	270	0	11.53			13.5	0.0	
100	QPSK	1	1	12.06					
100	QPSK	1	137	11.82			13.5	0.0	
100	QPSK	1	271	11.82					
100	QPSK	135	0	11.94			13.5	0.0	
100	QPSK	135	69	11.96			13.5	0.0	
100	QPSK	135	138	11.91			13.5	0.0	
100	QPSK	270	0	11.98			13.5	0.0	
100	16QAM	1	1	11.98			13.5	0.0	
100	64QAM	1	1	11.80			13.5	0.0	
100	256QAM	1	1	11.95			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.04	11.96	11.87	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.93	11.73	11.82	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.03	11.74	11.70	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.85	11.91	11.65	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.02	11.83	11.80	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.88	11.78	11.89	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.97	11.92	11.70	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.82	11.82	11.85	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.91	11.85	11.73	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.89	11.85	11.87	13.5	0.0	



n2 Main PA Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000		
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	21.83	21.87	21.77		
20	PI2 BPSK	1	53	21.71	21.81	21.74	23.0	0.0
20	PI2 BPSK	1	104	21.66	21.73	21.66		
20	PI2 BPSK	50	0	21.71	21.77	21.88	23.0	0.0
20	PI2 BPSK	50	28	21.67	21.71	21.85	23.0	0.0
20	PI2 BPSK	50	56	21.76	21.78	21.74		
20	PI2 BPSK	100	0	21.64	21.72	21.64	23.0	0.0
20	QPSK	1	1	21.81	21.88	21.87		
20	QPSK	1	53	21.80	21.88	21.83	23.0	0.0
20	QPSK	1	104	21.78	21.81	21.78		
20	QPSK	50	0	21.70	21.79	21.76	23.0	0.0
20	QPSK	50	28	21.76	21.83	21.80	23.0	0.0
20	QPSK	50	56	21.59	21.88	21.64	23.0	0.0
20	QPSK	100	0	21.73	21.78	21.87		
20	16QAM	1	1	21.77	21.88	21.80	23.0	0.0
20	64QAM	1	1	20.60	20.87	20.64	22.0	1.0
20	256QAM	1	1	18.86	18.90	18.81	20.0	3.0
Channel				371500	376000	380500		
Frequency (MHz)				1852.5	1860	1862.5		
15	QPSK	1	1	21.77	21.79	21.58	23.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1860	1865		
10	QPSK	1	1	21.75	21.84	21.64	23.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1860	1867.5		
5	QPSK	1	1	21.78	21.85	21.80	23.0	0.0

n7 Main PA Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 504000	Middle Ch. / Freq. 507000	High Ch. / Freq. 510000		
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.19	22.26	22.23		
40	PI2 BPSK	1	108	22.17	22.24	22.22	23.0	0.0
40	PI2 BPSK	1	214	22.04	22.11	22.01		
40	PI2 BPSK	108	0	22.09	22.13	22.07	23.0	0.0
40	PI2 BPSK	108	54	22.06	22.12	22.02	23.0	0.0
40	PI2 BPSK	108	108	22.09	22.12	22.05		
40	PI2 BPSK	216	0	22.12	22.14	22.12	23.0	0.0
40	QPSK	1	1	22.19	22.29	22.17		
40	QPSK	1	108	22.18	22.22	22.12	23.0	0.0
40	QPSK	1	214	22.01	22.06	22.03		
40	QPSK	108	0	22.03	22.12	22.10	23.0	0.0
40	QPSK	108	54	22.16	22.21	22.17	23.0	0.0
40	QPSK	108	108	22.00	22.08	22.01	23.0	0.0
40	QPSK	216	0	22.10	22.13	22.08	23.0	0.0
40	16QAM	1	1	21.89	21.88	21.96	23.0	0.0
40	64QAM	1	1	20.70	20.72	20.84	22.0	1.0
40	256QAM	1	1	19.26	19.29	19.21	20.0	3.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.10	22.21	22.12	23.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.15	22.25	22.14	23.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.10	22.29	22.11	23.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.12	22.20	22.08	23.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.15	22.19	22.09	23.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.10	22.21	22.14	23.0	0.0

n25 Main PA Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 381000		
Channel								
Frequency (MHz)				1860	1862.5	1905		
20	PI2 BPSK	1	1	21.87	21.95	21.87		
20	PI2 BPSK	1	53	21.85	21.88	21.81	23.0	0.0
20	PI2 BPSK	1	104	21.80	21.92	21.86		
20	PI2 BPSK	50	0	21.75	21.79	21.76	23.0	0.0
20	PI2 BPSK	50	28	21.66	21.75	21.70	23.0	0.0
20	PI2 BPSK	50	56	21.67	21.72	21.70		
20	PI2 BPSK	100	0	21.70	21.75	21.72	23.0	0.0
20	QPSK	1	1	21.77	21.96	21.87		
20	QPSK	1	53	21.87	21.77	21.71	23.0	0.0
20	QPSK	1	104	21.71	21.78	21.69		
20	QPSK	50	0	21.78	21.80	21.76	23.0	0.0
20	QPSK	50	28	21.83	21.86	21.81	23.0	0.0
20	QPSK	50	56	21.63	21.69	21.64	23.0	0.0
20	QPSK	100	0	21.68	21.77	21.74		
20	16QAM	1	1	21.33	21.39	21.31	23.0	0.0
20	64QAM	1	1	20.44	20.49	20.46	22.0	1.0
20	256QAM	1	1	18.86	18.94	18.85	20.0	3.0
Channel				371500	376000	381500		
Frequency (MHz)				1857.5	1862.5	1897.5		
15	QPSK	1	1	21.71	21.93	21.84	23.0	0.0
Channel				371000	376000	382000		
Frequency (MHz)				1855	1862.5	1910		
10	QPSK	1	1	21.74	21.93	21.84	23.0	0.0
Channel				370500	376000	382500		
Frequency (MHz)				1852.5	1862.5	1912.5		
5	QPSK	1	1	21.75	21.88	21.59	23.0	0.0



n30 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)								
10	PI2 BPSK	1	1	21.69	21.99	21.94	23.0	0.0
10	PI2 BPSK	1	26	21.65	21.87	21.78		
10	PI2 BPSK	1	50	21.56	21.88	21.79	22.5	0.5
10	PI2 BPSK	25	0	20.84	21.89	21.85		
10	PI2 BPSK	25	14	21.46	21.79	21.78	23.0	0.0
10	PI2 BPSK	25	27	21.04	21.80	21.84		
10	PI2 BPSK	50	0	21.24	21.97	21.92	22.5	0.5
10	QPSK	1	1	21.71	22.14	21.82		
10	QPSK	1	26	21.56	21.76	21.75	23.0	0.0
10	QPSK	1	50	21.19	21.83	21.86		
10	QPSK	25	0	21.25	21.84	21.81	23.0	0.0
10	QPSK	25	14	21.38	22.00	22.01		
10	QPSK	25	27	20.93	21.92	21.88	23.0	0.0
10	QPSK	50	0	20.11	21.97	21.95		
10	16QAM	1	1	20.05	21.84	21.79	22.0	1.0
10	64QAM	1	1	19.32	20.46	20.48		
10	256QAM	1	1	17.50	18.96	18.99	18.5	4.5
Channel				481500	482000	482500		
Frequency (MHz)				2307.5	2310	2312.5	23.0	0.0
5	QPSK	1	1	21.64	21.82	21.68	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.90	21.98	21.94	23.0	0.0
40	PI2 BPSK	1	109	21.76	21.87	21.78		
40	PI2 BPSK	1	214	21.81	21.88	21.79	23.0	0.0
40	PI2 BPSK	108	0	21.87	21.89	21.85		
40	PI2 BPSK	108	54	21.79	21.81	21.78	23.0	0.0
40	PI2 BPSK	108	108	21.80	21.87	21.84		
40	PI2 BPSK	216	0	21.84	21.97	21.92	23.0	0.0
40	QPSK	1	1	22.01	22.14	21.82		
40	QPSK	1	108	21.76	21.81	21.75	23.0	0.0
40	QPSK	1	214	21.83	21.90	21.86		
40	QPSK	108	0	21.84	21.88	21.81	23.0	0.0
40	QPSK	108	54	22.00	22.06	22.01		
40	QPSK	108	108	21.85	21.92	21.88	23.0	0.0
40	QPSK	216	0	21.87	21.97	21.95		
40	16QAM	1	1	21.84	21.85	21.79	23.0	0.0
40	64QAM	1	1	20.46	20.55	20.48		
40	256QAM	1	1	18.96	19.02	18.99	20.0	3.0
Channel				345000	346000	347000		
Frequency (MHz)				1725	1745	1765	23.0	0.0
30	QPSK	1	1	21.97	22.10	21.77	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	23.0	0.0
20	QPSK	1	1	21.98	22.08	21.75	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	23.0	0.0
15	QPSK	1	1	21.52	22.07	21.74	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	23.0	0.0
10	QPSK	1	1	21.98	22.07	21.75	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	23.0	0.0
5	QPSK	1	1	21.96	22.07	21.74	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.26	22.21	22.26	23.0	0.0
15	PI2 BPSK	1	49	22.21	22.05	22.05		
15	PI2 BPSK	1	77	22.05	22.21	22.18	23.0	0.0
15	PI2 BPSK	36	0	22.21	22.18	22.09		
15	PI2 BPSK	36	22	22.18	22.09	22.15	23.0	0.0
15	PI2 BPSK	36	43	22.09	22.23	22.26		
15	PI2 BPSK	75	0	22.15	22.16	22.08	23.0	0.0
15	QPSK	1	1	22.29	22.17	22.03		
15	QPSK	1	40	22.17	22.16	22.16	23.0	0.0
15	QPSK	1	77	22.03	22.16	22.16		
15	QPSK	36	0	22.16	22.23	22.08	23.0	0.0
15	QPSK	36	22	22.23	22.08	22.26		
15	QPSK	36	43	22.08	22.26	22.26	23.0	0.0
15	QPSK	75	0	22.26	22.26	22.26		
15	16QAM	1	1	22.26	20.44	18.98	20.0	1.0
15	64QAM	1	1	20.44	18.98	18.98		
15	256QAM	1	1	18.98	18.98	18.98	20.0	3.0
Channel				340000	345000	341000		
Frequency (MHz)				1700	1725	1705	23.0	0.0
10	QPSK	1	1	22.23	22.25	22.22	23.0	0.0
Channel				339500	345500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1722.5	1707.5	23.0	0.0
5	QPSK	1	1	22.22	22.22	22.22	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518998	High Ch. / Freq. 528000		
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.15	23.19	23.16		
100	PI2 BPSK	1	137	22.94	23.02	22.99	24.0	0.0
100	PI2 BPSK	1	271	22.72	22.81	22.75		
100	PI2 BPSK	135	0	23.07	23.14	23.10	24.0	0.0
100	PI2 BPSK	135	69	22.88	22.92	22.89	24.0	0.0
100	PI2 BPSK	135	138	22.67	22.74	22.71		
100	PI2 BPSK	270	0	22.82	22.91	22.87	24.0	0.0
100	QPSK	1	1	22.92	23.22	22.87		
100	QPSK	1	137	22.78	22.87	22.84	24.0	0.0
100	QPSK	1	271	22.88	22.72	22.86		
100	QPSK	135	0	23.02	23.05	22.95	24.0	0.0
100	QPSK	135	69	22.76	22.86	22.79	24.0	0.0
100	QPSK	135	138	22.68	22.76	22.69		
100	QPSK	270	0	22.85	22.94	22.89	24.0	0.0
100	16QAM	1	1	23.08	23.15	23.08	24.0	0.0
100	64QAM	1	1	22.91	22.95	22.86	24.0	0.0
100	256QAM	1	1	22.30	22.38	22.34	22.5	1.5
Channel								
Frequency (MHz)				509200	518998	528000	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.88	23.18	22.78	24.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.83	23.15	22.83	24.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.83	23.14	22.78	24.0	0.0
Channel								
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.88	23.13	22.78	24.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.85	23.16	22.81	24.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.81	23.16	22.80	24.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.86	23.13	22.82	24.0	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.89	23.15	22.83	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518998	High Ch. / Freq. 528000		
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	26.27	26.29	26.27		
100	PI2 BPSK	1	137	26.10	26.15	26.07	27.0	0.0
100	PI2 BPSK	1	271	26.04	26.12	26.03		
100	PI2 BPSK	135	0	26.03	26.07	26.04	27.0	0.0
100	PI2 BPSK	135	69	25.98	26.06	25.96	27.0	0.0
100	PI2 BPSK	135	138	25.95	26.01	25.93		
100	PI2 BPSK	270	0	26.01	26.04	25.95	27.0	0.0
100	QPSK	1	1	25.96	26.32	26.12		
100	QPSK	1	137	26.18	26.21	26.19	27.0	0.0
100	QPSK	1	271	26.05	26.15	26.12		
100	QPSK	135	0	25.88	25.97	25.88	27.0	0.0
100	QPSK	135	69	25.70	25.78	25.71	27.0	0.0
100	QPSK	135	138	25.74	25.79	25.72		
100	QPSK	270	0	25.71	25.79	25.72	27.0	0.0
100	16QAM	1	1	26.12	26.17	26.09	27.0	0.0
100	64QAM	1	1	24.06	24.11	24.05	25.5	1.5
100	256QAM	1	1	22.12	22.16	22.06	23.5	3.5
Channel								
Frequency (MHz)				509200	518998	528000	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.93	26.30	26.07	27.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.93	26.29	26.08	27.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.90	26.23	26.09	27.0	0.0
Channel								
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.93	26.29	26.09	27.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.90	26.23	26.08	27.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.82	26.25	26.02	27.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.86	26.25	26.03	27.0	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.90	26.26	26.09	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 635000	Middle Ch. / Freq. 641666	High Ch. / Freq. 648332		
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	22.22	22.21	22.26		
40	PI2 BPSK	1	59	22.22	22.17	22.17	24.0	0.0
40	PI2 BPSK	1	104	22.16	22.23	22.14		
40	PI2 BPSK	50	0	22.26	22.21	22.18	23.5	0.5
40	PI2 BPSK	50	28	22.17	22.26	22.05	24.0	0.0
40	PI2 BPSK	50	56	22.15	22.21	22.11		
40	PI2 BPSK	100	0	22.15	22.23	22.11	23.5	0.5
40	QPSK	1	1	22.30	22.40	22.32		
40	QPSK	1	53	22.24	22.27	22.17	24.0	0.0
40	QPSK	1	104	22.22	22.24	22.17		
40	QPSK	50	0	22.22	22.19	22.29	23.0	1.0
40	QPSK	50	28	22.12	22.32	22.17	24.0	0.0
40	QPSK	50	56	22.23	22.29	22.23		
40	QPSK	100	0	22.07	22.25	22.15	23.0	1.0
40	16QAM	1	1	22.15	22.26	22.11	23.0	1.0
40	64QAM	1	1	20.77	20.84	20.83	21.5	2.5
40	256QAM	1	1	17.70	17.81	17.78	19.5	4.5
Channel								
Frequency (MHz)				637666	641666	645666	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.23	22.37	22.20	24.0	0.0
Channel								
Frequency (MHz)				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.25	22.30	22.21	24.0	0.0
Channel								
Frequency (MHz)				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.21	22.32	22.20	24.0	0.0



Part270 n77 Main PA Ant2								
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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.08	22.08	22.18	23.0	0.0
100	QPSK	1	137	22.18	22.08	22.07		
100	PI2 BPSK	1	271	22.01	22.17	22.05		
100	PI2 BPSK	135	0	22.19	22.14	22.08	22.5	0.5
100	PI2 BPSK	135	69	22.11	22.13	22.12	23.0	0.0
100	PI2 BPSK	135	138	22.02	22.14	22.03		
100	PI2 BPSK	270	0	22.03	22.08	21.98	22.5	0.5
100	QPSK	1	1	22.23	22.83	22.28		
100	QPSK	1	137	22.11	22.20	22.12	23.0	0.0
100	QPSK	1	271	22.16	22.13	22.09		
100	QPSK	135	0	21.24	21.35	21.25	22.0	1.0
100	QPSK	135	69	22.04	22.31	22.02	23.0	0.0
100	QPSK	135	138	21.25	21.33	21.32	22.0	1.0
100	QPSK	270	0	21.25	21.30	21.26		
100	16QAM	1	1	21.10	21.21	20.98	22.0	1.0
100	64QAM	1	1	19.71	19.86	19.82	20.5	2.5
100	256QAM	1	1	17.73	17.87	17.76	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.15	22.27	22.22	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.13	22.23	22.22	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.20	22.28	22.19	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.20	22.28	22.22	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.14	22.26	22.19	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.10	22.21	22.19	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.17	22.23	22.19	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.17	22.23	22.22	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.13	22.23	22.25	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.18	22.25	22.23	23.0	0.0

Part270 n77 PC2 Main PA Ant2								
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								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.12	24.79	24.11	26.0	0.0
100	PI2 BPSK	1	137	24.10	24.84	24.04		
100	PI2 BPSK	1	271	24.12	24.86	24.09		
100	PI2 BPSK	135	0	23.83	24.39	23.61	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.94	24.12	26.0	0.0
100	PI2 BPSK	135	138	23.80	24.41	23.61		
100	PI2 BPSK	270	0	23.70	24.48	23.70	25.5	0.5
100	QPSK	1	1	24.21	24.96	24.18		
100	QPSK	1	137	24.10	24.84	24.11	26.0	0.0
100	QPSK	1	271	24.10	24.93	24.12		
100	QPSK	135	0	23.20	23.93	23.17	25.0	1.0
100	QPSK	135	69	24.16	24.91	24.15	26.0	0.0
100	QPSK	135	138	23.07	24.01	23.12	25.0	1.0
100	QPSK	270	0	24.14	23.97	23.18		
100	16QAM	1	1	23.16	23.85	23.17	25.0	1.0
100	64QAM	1	1	21.72	22.47	21.76	23.5	2.5
100	256QAM	1	1	19.61	20.34	19.61	21.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.11	24.88	24.11	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.08	24.85	24.09	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.13	24.94	24.15	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.17	24.92	24.10	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.17	24.85	24.08	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.15	24.94	24.11	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.11	24.93	24.12	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.09	24.90	24.04	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.09	24.91	24.15	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.13	24.90	24.05	26.0	0.0

Part27Q n77 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63000	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.31	22.38	22.31	23.0	0.0
100	PI2 BPSK	1	137	22.31	22.38	22.31		
100	PI2 BPSK	1	271	22.37	22.37	22.37		
100	PI2 BPSK	135	0	21.90	21.90	21.90	22.5	0.5
100	PI2 BPSK	135	69	22.33	22.33	22.33	23.0	0.0
100	PI2 BPSK	135	138	21.94	21.94	21.94		
100	PI2 BPSK	270	0	21.88	21.88	21.88	22.5	0.5
100	QPSK	1	1	22.42	22.42	22.42		
100	QPSK	1	137	22.40	22.40	22.40	23.0	0.0
100	QPSK	1	271	22.37	22.37	22.37		
100	QPSK	135	0	21.43	21.43	21.43	22.0	1.0
100	QPSK	135	69	22.30	22.30	22.30	23.0	0.0
100	QPSK	135	138	21.40	21.40	21.40	22.0	1.0
100	QPSK	270	0	21.48	21.48	21.48		
100	16QAM	1	1	21.38	21.38	21.38	22.0	1.0
100	64QAM	1	1	19.96	19.96	19.96	20.5	2.5
100	256QAM	1	1	17.87	17.87	17.87	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.23	22.36	22.23	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.24	22.34	22.23	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.31	22.38	22.30	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.31	22.30	22.25	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.29	22.31	22.28	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.23	22.30	22.29	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.31	22.34	22.25	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.24	22.37	22.32	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.31	22.33	22.25	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.28	22.31	22.30	23.0	0.0



Part27Q n77 PC2 Main PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	25.48	25.48	25.48	0.0
100	PI2 BPSK	1	137	25.48	25.48	25.48	0.0
100	PI2 BPSK	1	271	25.48	25.48	25.48	0.0
100	PI2 BPSK	135	0	25.14	25.14	25.5	0.5
100	PI2 BPSK	135	69	25.45	25.45	26.0	0.0
100	PI2 BPSK	135	138	25.96	25.96	25.5	0.5
100	PI2 BPSK	270	0	25.13	25.13	25.5	0.5
100	QPSK	1	1	25.59	25.59	25.59	0.0
100	QPSK	1	137	25.59	25.59	25.59	0.0
100	QPSK	1	271	25.59	25.59	25.59	0.0
100	QPSK	135	0	24.60	24.60	25.0	1.0
100	QPSK	135	69	25.46	25.46	26.0	0.0
100	QPSK	135	138	24.55	24.55	25.0	1.0
100	QPSK	270	0	24.59	24.59	25.0	1.0
100	16QAM	1	1	24.60	24.60	25.0	1.0
100	64QAM	1	1	23.07	23.07	23.5	2.5
100	256QAM	1	1	21.13	21.13	21.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.36	25.36	25.31	26.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.45	25.45	25.33	26.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.36	25.36	25.42	26.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.36	25.36	25.42	26.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.42	25.42	25.32	26.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.48	25.53	25.37	26.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.48	25.47	25.33	26.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.41	25.47	25.33	26.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.42	25.53	25.35	26.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.41	25.56	25.35	26.0

Part27O n78 Main PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.55	21.55	21.55	0.0
100	PI2 BPSK	1	137	21.49	21.49	21.49	0.0
100	PI2 BPSK	1	271	21.45	21.45	21.45	0.0
100	PI2 BPSK	135	0	21.22	21.22	22.5	0.5
100	PI2 BPSK	135	69	21.44	21.44	23.0	0.0
100	PI2 BPSK	135	138	21.12	21.12	22.5	0.5
100	PI2 BPSK	270	0	21.06	21.06	21.46	0.0
100	QPSK	1	1	20.63	20.63	20.63	0.0
100	QPSK	1	137	20.61	20.61	22.0	1.0
100	QPSK	1	271	20.60	20.60	20.60	0.0
100	QPSK	135	0	19.84	19.84	21.0	2.0
100	QPSK	135	69	20.56	20.56	22.0	1.0
100	QPSK	135	138	19.78	19.78	21.0	2.0
100	QPSK	270	0	19.75	19.75	21.0	2.0
100	16QAM	1	1	20.04	20.04	22.0	1.0
100	64QAM	1	1	18.67	18.67	20.5	2.5
100	256QAM	1	1	17.09	17.09	18.5	4.5
Channel							
Frequency (MHz)							
90	PI2 BPSK	1	1	21.47	21.50	21.48	23.0
Channel							
Frequency (MHz)							
80	PI2 BPSK	1	1	21.51	21.46	21.51	23.0
Channel							
Frequency (MHz)							
70	PI2 BPSK	1	1	21.48	21.42	21.51	23.0
Channel							
Frequency (MHz)							
60	PI2 BPSK	1	1	21.47	21.47	21.50	23.0
Channel							
Frequency (MHz)							
50	PI2 BPSK	1	1	21.50	21.45	21.40	23.0
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	21.48	21.41	21.45	23.0
Channel							
Frequency (MHz)							
30	PI2 BPSK	1	1	21.50	21.45	21.43	23.0
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	21.42	21.48	21.49	23.0
Channel							
Frequency (MHz)							
15	PI2 BPSK	1	1	21.42	21.46	21.43	23.0
Channel							
Frequency (MHz)							
10	PI2 BPSK	1	1	21.50	21.43	21.40	23.0

Part27Q n78 Main PA Ant2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.14	22.14	22.14	0.0
100	PI2 BPSK	1	137	22.05	22.05	22.05	0.0
100	PI2 BPSK	1	271	22.06	22.06	22.06	0.0
100	PI2 BPSK	135	0	21.42	21.42	22.5	0.5
100	PI2 BPSK	135	69	22.05	22.05	23.0	0.0
100	PI2 BPSK	135	138	21.45	21.45	22.5	0.5
100	PI2 BPSK	270	0	21.46	21.46	21.46	0.0
100	QPSK	1	1	21.29	21.29	21.29	0.0
100	QPSK	1	137	21.09	21.09	23.0	0.0
100	QPSK	1	271	21.05	21.05	21.05	0.0
100	QPSK	135	0	20.23	20.23	22.0	1.0
100	QPSK	135	69	21.15	21.15	23.0	0.0
100	QPSK	135	138	20.29	20.29	22.0	1.0
100	QPSK	270	0	20.26	20.26	22.0	1.0
100	16QAM	1	1	20.55	20.55	22.0	1.0
100	64QAM	1	1	19.06	19.06	20.5	2.5
100	256QAM	1	1	18.01	18.01	18.5	4.5
Channel							
Frequency (MHz)							
90	PI2 BPSK	1	1	22.04	22.04	22.05	23.0
Channel							
Frequency (MHz)							
80	PI2 BPSK	1	1	22.02	22.02	22.05	23.0
Channel							
Frequency (MHz)							
70	PI2 BPSK	1	1	22.01	21.98	22.05	23.0
Channel							
Frequency (MHz)							
60	PI2 BPSK	1	1	22.09	22.08	21.99	23.0
Channel							
Frequency (MHz)							
50	PI2 BPSK	1	1	22.06	22.05	21.99	23.0
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	22.04	22.00	22.01	23.0
Channel							
Frequency (MHz)							
30	PI2 BPSK	1	1	22.07	22.07	22.03	23.0
Channel							
Frequency (MHz)							
20	PI2 BPSK	1	1	22.02	22.05	22.09	23.0
Channel							
Frequency (MHz)							
15	PI2 BPSK	1	1	22.01	22.08	22.09	23.0
Channel							
Frequency (MHz)							
10	PI2 BPSK	1	1	22.05	22.08	22.07	23.0



n2 Main PA Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376000	High Ch. / Freq. 380000		
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	15.62	15.48	15.48		
20	PI2 BPSK	1	53	15.48	15.54	15.35	17.2	0.0
20	PI2 BPSK	1	104	15.33	15.44	15.23		
20	PI2 BPSK	50	0	15.21	15.46	15.23	17.2	0.0
20	PI2 BPSK	50	28	15.40	15.28	15.32	17.2	0.0
20	PI2 BPSK	50	56	15.25	15.45	15.21		
20	PI2 BPSK	100	0	15.32	15.39	15.24	17.2	0.0
20	QPSK	1	1	15.56	15.75	15.58		
20	QPSK	1	53	15.47	15.74	15.26	17.2	0.0
20	QPSK	1	104	15.51	15.64	15.47		
20	QPSK	50	0	15.44	15.39	15.54	17.2	0.0
20	QPSK	50	28	15.50	15.65	15.45	17.2	0.0
20	QPSK	50	56	15.41	15.45	15.27		
20	QPSK	100	0	15.44	15.39	15.45	17.2	0.0
20	16QAM	1	1	15.45	15.30	15.30	17.2	0.0
20	64QAM	1	1	15.43	15.30	15.49	17.2	0.0
20	256QAM	1	1	15.42	15.44	15.24	17.2	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1862.5	17.2	0.0
15	QPSK	1	1	15.28	15.30	15.21		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1859	1863	17.2	0.0
10	QPSK	1	1	15.24	15.29	15.41		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1867.5	17.2	0.0
5	QPSK	1	1	15.33	15.29	15.42		

n7 Main PA Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 504000	Middle Ch. / Freq. 507000	High Ch. / Freq. 510000		
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	14.72	14.81	14.78		
40	PI2 BPSK	1	108	14.57	14.63	14.37	16.1	0.0
40	PI2 BPSK	1	214	14.26	14.38	14.32		
40	PI2 BPSK	108	0	14.56	14.52	14.56	16.1	0.0
40	PI2 BPSK	108	54	14.54	14.87	14.80	16.1	0.0
40	PI2 BPSK	108	108	14.46	14.71	14.48		
40	PI2 BPSK	216	0	14.43	14.68	14.56	16.1	0.0
40	QPSK	1	1	14.87	14.68	14.76		
40	QPSK	1	108	14.71	14.83	14.52	16.1	0.0
40	QPSK	1	214	14.52	14.64	14.59		
40	QPSK	108	0	14.61	14.68	14.76	16.1	0.0
40	QPSK	108	54	14.71	14.78	14.83	16.1	0.0
40	QPSK	108	108	14.72	14.68	14.55		
40	QPSK	216	0	14.61	14.77	14.76	16.1	0.0
40	16QAM	1	1	14.25	14.49	14.38	16.1	0.0
40	64QAM	1	1	14.45	14.76	14.40	16.1	0.0
40	256QAM	1	1	14.46	14.61	14.47	16.1	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	16.1	0.0
30	QPSK	1	1	14.23	14.55	14.23		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	16.1	0.0
25	QPSK	1	1	14.23	14.54	14.35		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	16.1	0.0
20	PI2 BPSK	1	1	14.25	14.45	14.45	16.1	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	16.1	0.0
15	QPSK	1	1	14.25	14.47	14.42		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	16.1	0.0
10	QPSK	1	1	14.21	14.53	14.30		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	16.1	0.0
5	QPSK	1	1	14.27	14.68	14.53		

n25 Main PA Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 372000	Middle Ch. / Freq. 376500	High Ch. / Freq. 381000		
Channel								
Frequency (MHz)				1860	1862.5	1905		
20	PI2 BPSK	1	1	15.68	15.71	15.52		
20	PI2 BPSK	1	53	15.62	15.68	15.40	17.2	0.0
20	PI2 BPSK	1	104	15.49	15.55	15.47		
20	PI2 BPSK	50	0	15.29	15.58	15.32	17.2	0.0
20	PI2 BPSK	50	28	15.55	15.55	15.41	17.2	0.0
20	PI2 BPSK	50	56	15.29	15.55	15.33		
20	PI2 BPSK	100	0	15.38	15.45	15.45	17.2	0.0
20	QPSK	1	1	15.74	15.92	15.78		
20	QPSK	1	53	15.65	15.89	15.52	17.2	0.0
20	QPSK	1	104	15.61	15.71	15.72		
20	QPSK	50	0	15.49	15.64	15.59	17.2	0.0
20	QPSK	50	28	15.68	15.77	15.64	17.2	0.0
20	QPSK	50	56	15.49	15.58	15.40		
20	QPSK	100	0	15.47	15.71	15.55	17.2	0.0
20	16QAM	1	1	15.50	15.56	15.55	17.2	0.0
20	64QAM	1	1	15.61	15.52	15.47	17.2	0.0
20	256QAM	1	1	15.62	15.56	15.45	17.2	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1862.5	1897.5	17.2	0.0
15	QPSK	1	1	15.64	15.54	15.54		
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1862.5	1910	17.2	0.0
10	QPSK	1	1	15.59	15.55	15.52		
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1862.5	1912.5	17.2	0.0
5	QPSK	1	1	15.80	15.72	15.49		



n30 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					2310				
Frequency (MHz)					15.21				
10	PI2 BPSK	1	1		15.21		16.5	0.0	
10	PI2 BPSK	1	26		14.94				
10	PI2 BPSK	1	50		15.09				
10	PI2 BPSK	25	0		14.88		16.5	0.0	
10	PI2 BPSK	25	14		15.08		16.5	0.0	
10	PI2 BPSK	25	27		14.96				
10	PI2 BPSK	50	0		15.10		16.5	0.0	
10	QPSK	1	1		15.29				
10	QPSK	1	26		15.09		16.5	0.0	
10	QPSK	1	50		15.17				
10	QPSK	25	0		15.04		16.5	0.0	
10	QPSK	25	14		15.21		16.5	0.0	
10	QPSK	25	27		15.14				
10	QPSK	50	0		15.15		16.5	0.0	
10	16QAM	1	1		15.04		16.5	0.0	
10	64QAM	1	1		15.01		16.5	0.0	
10	256QAM	1	1		15.04		16.5	0.0	
Channel				481500	482000	482500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1		14.98	15.01	15.01	16.5	0.0

n66 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					1730	1745	1760		
Frequency (MHz)					16.35	16.43	16.20		
40	PI2 BPSK	1	1		16.35	16.43	16.20		
40	PI2 BPSK	1	109		16.02	16.09	16.18	17.6	
40	PI2 BPSK	1	214		16.10	16.09	16.17		
40	PI2 BPSK	108	0		16.11	16.31	15.98	17.6	
40	PI2 BPSK	108	54		16.29	16.20	16.05	17.6	
40	PI2 BPSK	108	108		16.09	16.31	16.00		
40	PI2 BPSK	216	0		16.16	16.23	16.19	17.6	
40	QPSK	1	1		16.55	16.56	16.40		
40	QPSK	1	108		16.27	16.33	16.33	17.6	
40	QPSK	1	214		16.30	16.36	16.26		
40	QPSK	108	0		16.30	16.43	16.23	17.6	
40	QPSK	108	54		16.37	16.44	16.22	17.6	
40	QPSK	108	108		16.26	16.37	16.13		
40	QPSK	216	0		16.26	16.37	16.33	17.6	
40	16QAM	1	1		16.04	16.32	15.96	17.6	
40	64QAM	1	1		16.13	16.29	15.97	17.6	
40	256QAM	1	1		16.04	16.21	16.05	17.6	
Channel				345000	346000	347000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1		16.13	16.18	16.05	17.6	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1		16.08	16.17	16.01	17.6	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1		15.99	16.20	16.02	17.6	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1		15.99	16.28	15.87	17.6	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1		16.16	16.20	16.09	17.6	0.0

n70 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					1702.5				
Frequency (MHz)					16.10				
15	PI2 BPSK	1	1		16.10		17.0	0.0	
15	PI2 BPSK	1	49		16.12				
15	PI2 BPSK	1	77		15.95				
15	PI2 BPSK	36	0		15.79		17.0	0.0	
15	PI2 BPSK	36	22		16.00		17.0	0.0	
15	PI2 BPSK	36	43		15.91				
15	PI2 BPSK	75	0		15.96		17.0	0.0	
15	QPSK	1	1		16.27				
15	QPSK	1	49		16.17		17.0	0.0	
15	QPSK	1	77		16.04				
15	QPSK	36	0		16.02		17.0	0.0	
15	QPSK	36	22		16.10		17.0	0.0	
15	QPSK	36	43		15.99				
15	QPSK	75	0		16.04		17.0	0.0	
15	16QAM	1	1		15.96		17.0	0.0	
15	64QAM	1	1		16.06		17.0	0.0	
15	256QAM	1	1		15.90		17.0	0.0	
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
10	QPSK	1	1		15.94	16.13	16.04	17.0	0.0
Channel				339500	345500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1		15.99	16.03	16.13	17.0	0.0



n41 Main PA Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509200	Middle Ch. / Freq. 518998	High Ch. / Freq. 528000		
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	14.39	14.74	14.23		
100	PI2 BPSK	1	171	14.35	14.37	14.32	15.8	0.0
100	PI2 BPSK	1	271	13.83	14.24	14.12		
100	PI2 BPSK	135	0	14.37	14.51	14.32	15.8	0.0
100	PI2 BPSK	135	69	14.28	14.75	14.82	15.8	0.0
100	PI2 BPSK	135	138	14.22	14.07	14.14	15.8	0.0
100	PI2 BPSK	270	0	14.17	14.31	14.15	15.8	0.0
100	QPSK	1	1	14.57	14.85	14.41		
100	QPSK	1	137	14.51	14.51	14.57	15.8	0.0
100	QPSK	1	271	14.05	14.31	14.22		
100	QPSK	135	0	14.49	14.55	14.37	15.8	0.0
100	QPSK	135	69	14.65	14.83	14.75	15.8	0.0
100	QPSK	135	138	14.31	14.31	14.21	15.8	0.0
100	QPSK	270	0	14.34	14.44	14.28	15.8	0.0
100	16QAM	1	1	13.81	14.18	14.18	15.8	0.0
100	64QAM	1	1	13.87	14.21	14.14	15.8	0.0
100	256QAM	1	1	13.82	14.28	14.08	15.8	0.0
Channel								
Frequency (MHz)				509200	518998	528000		
90	QPSK	1	1	14.37	14.82	14.19	15.8	0.0
Channel								
Frequency (MHz)				507204	518998	529998		
80	QPSK	1	1	14.34	14.70	14.17	15.8	0.0
Channel								
Frequency (MHz)				506202	518998	531000		
70	QPSK	1	1	14.51	14.03	14.22	15.8	0.0
Channel								
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.38	14.63	14.17	15.8	0.0
Channel								
Frequency (MHz)				504204	518998	532998		
50	QPSK	1	1	14.37	14.76	14.28	15.8	0.0
Channel								
Frequency (MHz)				503202	518998	534000		
40	QPSK	1	1	2511.01	2592.99	2670	15.8	0.0
Channel								
Frequency (MHz)				502200	518998	534998		
30	QPSK	1	1	14.32	14.81	14.18	15.8	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.50	14.62	14.36	15.8	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518998	High Ch. / Freq. 528000		
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	17.23	17.76	17.59		
100	PI2 BPSK	1	137	17.67	17.52	17.66	18.8	0.0
100	PI2 BPSK	1	271	17.48	17.63	17.37		
100	PI2 BPSK	135	0	17.34	17.22	17.42	18.8	0.0
100	PI2 BPSK	135	69	17.29	17.57	17.20	18.8	0.0
100	PI2 BPSK	135	138	17.12	17.33	17.41	18.8	0.0
100	PI2 BPSK	270	0	17.18	17.16	17.30	18.8	0.0
100	QPSK	1	1	17.42	17.93	17.88		
100	QPSK	1	137	17.73	17.68	17.80	18.8	0.0
100	QPSK	1	271	17.69	17.76	17.62		
100	QPSK	135	0	17.51	17.39	17.50	18.8	0.0
100	QPSK	135	69	17.51	17.61	17.36	18.8	0.0
100	QPSK	135	138	17.33	17.44	17.52	18.8	0.0
100	QPSK	270	0	17.25	17.41	17.38	18.8	0.0
100	16QAM	1	1	17.28	17.35	17.15	18.8	0.0
100	64QAM	1	1	17.39	17.37	17.17	18.8	0.0
100	256QAM	1	1	17.47	17.48	17.15	18.8	0.0
Channel								
Frequency (MHz)				509202	518998	529998		
90	QPSK	1	1	17.38	17.41	17.13	18.8	0.0
Channel								
Frequency (MHz)				507204	518998	529998		
80	QPSK	1	1	17.42	17.59	17.24	18.8	0.0
Channel								
Frequency (MHz)				506202	518998	531000		
70	QPSK	1	1	17.42	17.50	17.19	18.8	0.0
Channel								
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.45	17.45	17.18	18.8	0.0
Channel								
Frequency (MHz)				504204	518998	532998		
50	QPSK	1	1	17.29	17.52	17.28	18.8	0.0
Channel								
Frequency (MHz)				503202	518998	534000		
40	QPSK	1	1	2511.01	2592.99	2670	18.8	0.0
Channel								
Frequency (MHz)				502200	518998	534998		
30	QPSK	1	1	17.38	17.50	17.19	18.8	0.0
Channel								
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.34	17.49	17.15	18.8	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 635000	Middle Ch. / Freq. 641666	High Ch. / Freq. 645332		
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	14.31	14.34	14.08		
40	PI2 BPSK	1	59	14.33	14.21	14.24	15.5	0.0
40	PI2 BPSK	1	104	14.16	14.28	14.02		
40	PI2 BPSK	50	0	14.39	14.40	14.18	15.5	0.0
40	PI2 BPSK	50	28	14.17	14.21	14.24	15.5	0.0
40	PI2 BPSK	50	56	14.08	14.38	14.39	15.5	0.0
40	PI2 BPSK	100	0	14.28	14.24	13.97	15.5	0.0
40	QPSK	1	1	14.37	14.41	14.33		
40	QPSK	1	53	14.33	14.37	14.35	15.5	0.0
40	QPSK	1	104	14.27	14.40	14.21		
40	QPSK	50	0	14.36	14.29	14.31	15.5	0.0
40	QPSK	50	28	14.34	14.38	14.32	15.5	0.0
40	QPSK	50	56	14.28	14.30	14.33	15.5	0.0
40	QPSK	100	0	14.35	14.37	14.18	15.5	0.0
40	16QAM	1	1	14.14	14.37	14.15	15.5	0.0
40	64QAM	1	1	14.03	14.21	13.85	15.5	0.0
40	256QAM	1	1	14.07	14.30	14.17	15.5	0.0
Channel								
Frequency (MHz)				637666	641666	645332		
30	QPSK	1	1	14.27	14.04	14.19	15.5	0.0
Channel								
Frequency (MHz)				637334	641666	645000		
20	QPSK	1	1	14.32	14.13	14.06	15.5	0.0
Channel								
Frequency (MHz)				637000	641666	646332		
10	QPSK	1	1	14.16	14.17	14.24	15.5	0.0



Part270 n77 Main PA Ant3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 656000	Power High Ch./Freq. 662000	MPR (dB)
Channel							
Frequency (MHz)				3750	3840	3930	
100	PI2 BPSK	1	1	14.01	13.96	13.79	
100	PI2 BPSK	1	1	13.74	13.90	13.89	
100	PI2 BPSK	1	271	13.72	13.93	13.87	
100	PI2 BPSK	135	0	13.74	13.92	13.88	15.7
100	PI2 BPSK	135	69	13.71	13.85	13.85	15.7
100	PI2 BPSK	135	138	13.74	13.98	13.90	15.7
100	PI2 BPSK	270	0	13.83	13.79	13.79	15.7
100	QPSK	1	1	14.14	14.22	14.00	
100	QPSK	1	137	13.92	14.15	14.00	15.7
100	QPSK	1	271	13.79	14.16	13.96	
100	QPSK	135	0	13.89	14.02	14.01	15.7
100	QPSK	135	69	13.93	14.21	14.03	15.7
100	QPSK	135	138	13.79	13.95	13.83	15.7
100	QPSK	270	0	13.84	14.03	13.90	15.7
100	16QAM	1	1	13.75	13.76	13.82	15.7
100	64QAM	1	1	13.78	13.77	13.90	15.7
100	256QAM	1	1	13.77	13.91	13.84	15.7
Channel				649668	656000	662334	
Frequency (MHz)				3745.02	3840	3935.01	
90	QPSK	1	1	13.75	13.87	13.87	15.7
Channel				649334	656000	662668	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	13.77	13.90	13.92	15.7
Channel				649000	656000	663000	
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	13.63	13.98	13.96	15.7
Channel				648668	656000	663334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	13.77	13.88	13.93	15.7
Channel				648334	656000	663668	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	13.75	13.85	13.77	15.7
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3960	
40	QPSK	1	1	13.79	13.95	13.92	15.7
Channel				647668	656000	664334	
Frequency (MHz)				3715.02	3840	3965.01	
30	QPSK	1	1	13.71	13.78	13.89	15.7
Channel				647334	656000	664668	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	13.80	13.84	13.85	15.7
Channel				647168	656000	664834	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	13.76	13.98	13.92	15.7
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	13.88	13.77	13.80	15.7

Part270 n77 PC2 Main PA Ant3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 656000	Power High Ch./Freq. 662000	MPR (dB)
Channel							
Frequency (MHz)				3750	3840	3930	
100	PI2 BPSK	1	1	16.83	17.34	16.97	
100	PI2 BPSK	1	137	16.81	17.13	16.85	18.7
100	PI2 BPSK	1	271	16.96	17.16	16.74	18.7
100	PI2 BPSK	135	0	16.87	16.85	16.79	18.7
100	PI2 BPSK	135	69	16.72	16.95	16.78	18.7
100	PI2 BPSK	135	138	16.71	16.89	16.73	18.7
100	PI2 BPSK	270	0	16.77	16.90	16.75	18.7
100	QPSK	1	1	17.05	17.38	17.21	
100	QPSK	1	137	16.96	17.29	16.97	18.7
100	QPSK	1	271	17.01	17.37	16.90	
100	QPSK	135	0	16.90	17.00	16.94	18.7
100	QPSK	135	69	16.75	17.17	16.84	18.7
100	QPSK	135	138	16.85	17.08	16.86	18.7
100	QPSK	270	0	16.91	17.02	16.99	18.7
100	16QAM	1	1	16.88	17.14	16.83	18.7
100	64QAM	1	1	16.98	17.19	16.73	18.7
100	256QAM	1	1	16.97	17.22	16.75	18.7
Channel				649668	656000	662334	
Frequency (MHz)				3745.02	3840	3935.01	
90	QPSK	1	1	16.86	17.26	16.81	18.7
Channel				649334	656000	662668	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	16.85	17.10	16.84	18.7
Channel				649000	656000	663000	
Frequency (MHz)				3735	3840	3945	
70	QPSK	1	1	16.94	17.22	16.72	18.7
Channel				648668	656000	663334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	16.81	17.27	16.77	18.7
Channel				648334	656000	663668	
Frequency (MHz)				3725.01	3840	3955.02	
50	QPSK	1	1	16.97	17.20	16.88	18.7
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3960	
40	QPSK	1	1	16.82	17.41	16.79	18.7
Channel				647668	656000	664334	
Frequency (MHz)				3715.02	3840	3965.01	
30	QPSK	1	1	16.81	17.12	16.77	18.7
Channel				647334	656000	664668	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	16.83	17.12	16.75	18.7
Channel				647168	656000	664834	
Frequency (MHz)				3707.52	3840	3972.51	
15	QPSK	1	1	16.76	17.25	16.85	18.7
Channel				647000	656000	665000	
Frequency (MHz)				3705	3840	3975	
10	QPSK	1	1	16.78	17.12	16.74	18.7

Part27Q n77 Main PA Ant3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 630000	Power Middle Ch./Freq. 633334	Power High Ch./Freq. 636668	MPR (dB)
Channel							
Frequency (MHz)				3500.01			
100	PI2 BPSK	1	1	14.31	14.31	14.31	
100	PI2 BPSK	1	137	14.28	14.28	14.28	15.7
100	PI2 BPSK	1	271	14.09	14.09	14.09	15.7
100	PI2 BPSK	135	0	13.98	13.98	13.98	15.7
100	PI2 BPSK	135	69	14.12	14.12	14.12	15.7
100	PI2 BPSK	135	138	13.89	13.89	13.89	15.7
100	PI2 BPSK	270	0	14.01	14.01	14.01	15.7
100	QPSK	1	1	14.43	14.43	14.43	
100	QPSK	1	137	14.28	14.28	14.28	15.7
100	QPSK	1	271	14.25	14.25	14.25	15.7
100	QPSK	135	0	14.16	14.16	14.16	15.7
100	QPSK	135	69	14.36	14.36	14.36	15.7
100	QPSK	135	138	14.16	14.16	14.16	15.7
100	QPSK	270	0	14.15	14.15	14.15	15.7
100	16QAM	1	1	14.06	14.06	14.06	15.7
100	64QAM	1	1	13.99	13.99	13.99	15.7
100	256QAM	1	1	13.93	13.93	13.93	15.7
Channel				633600	633334	633668	
Frequency (MHz)				3495	3500.01	3505.02	
90	QPSK	1	1	14.29	14.33	14.30	15.7
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510.01	
80	QPSK	1	1	14.25	14.27	14.25	15.7
Channel				632334	633334	634334	
Frequency (MHz)				3485.01	3500.01	3515.01	
70	QPSK	1	1	14.24	14.26	14.37	15.7
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3520.02	
60	QPSK	1	1	14.21	14.33	14.37	15.7
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525.02	
50	QPSK	1	1	14.38	14.25	14.31	15.7
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	QPSK	1	1	14.37	14.22	14.31	15.7
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	3535.02	
30	QPSK	1	1	14.22	14.33	14.37	15.7
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540.01	
20	QPSK	1	1	14.25	14.30	14.37	15.7
Channel				630334	633334	636368	
Frequency (MHz)				3455.01	3500.01	3545.01	
15	QPSK	1	1	14.34	14.28	14.27	15.7
Channel				630000	633334	636668	
Frequency (MHz)				3450	3500.01	3550.01	
10	QPSK	1	1	14.30	14.37	14.32	15.7



Part27Q 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									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	1	17.42					
100	PI2 BPSK	1	1	17.25			18.7	0.0	
100	PI2 BPSK	1	271	17.20					
100	PI2 BPSK	135	0	17.30			18.7	0.0	
100	PI2 BPSK	135	69	17.19			18.7	0.0	
100	PI2 BPSK	135	138	17.10			18.7	0.0	
100	PI2 BPSK	270	0	17.13			18.7	0.0	
100	QPSK	1	1	17.52					
100	QPSK	1	137	17.40			18.7	0.0	
100	QPSK	1	271	17.43					
100	QPSK	135	0	17.38			18.7	0.0	
100	QPSK	135	69	17.40			18.7	0.0	
100	QPSK	135	138	17.35			18.7	0.0	
100	QPSK	270	0	17.21			18.7	0.0	
100	16QAM	1	1	17.17			18.7	0.0	
100	64QAM	1	1	17.22			18.7	0.0	
100	256QAM	1	1	17.29			18.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.35	17.37	17.22	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.25	17.43	17.43	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.85	17.24	17.40	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.25	17.42	17.24	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.36	17.31	17.34	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.27	17.49	17.29	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.40	17.40	17.23	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.24	17.50	17.22	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.85	17.41	17.40	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.35	17.48	17.24	Tune-up limit (dB)	MPR (dB)	

Part27O n78									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750				
100	PI2 BPSK	1	1	13.92					
100	PI2 BPSK	1	137	13.71			15.7	0.0	
100	PI2 BPSK	1	271	13.71					
100	PI2 BPSK	135	0	13.77			15.7	0.0	
100	PI2 BPSK	135	69	13.72			15.7	0.0	
100	PI2 BPSK	135	138	13.77			15.7	0.0	
100	PI2 BPSK	270	0	13.77			15.7	0.0	
100	QPSK	1	1	13.85					
100	QPSK	1	137	13.73			15.7	0.0	
100	QPSK	1	271	13.73					
100	QPSK	135	0	13.76			15.7	0.0	
100	QPSK	135	69	13.88			15.7	0.0	
100	QPSK	135	138	13.79			15.7	0.0	
100	QPSK	270	0	13.68			15.7	0.0	
100	16QAM	1	1	13.77			15.7	0.0	
100	64QAM	1	1	13.75			15.7	0.0	
100	256QAM	1	1	13.78			15.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.77	13.78	13.78	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.74	13.77	13.79	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.74	13.85	13.71	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.71	13.75	13.74	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.77	13.82	13.74	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.73	13.77	13.79	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.74	13.77	13.76	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.75	13.84	13.75	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.72	13.73	13.85	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.73	13.78	13.77	Tune-up limit (dB)	MPR (dB)	

Part27Q n78									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	1	14.11					
100	PI2 BPSK	1	137	14.10			15.7	0.0	
100	PI2 BPSK	1	271	13.98					
100	PI2 BPSK	135	0	13.91			15.7	0.0	
100	PI2 BPSK	135	69	13.87			15.7	0.0	
100	PI2 BPSK	135	138	13.77			15.7	0.0	
100	PI2 BPSK	270	0	13.77			15.7	0.0	
100	QPSK	1	1	14.40					
100	QPSK	1	137	14.17			15.7	0.0	
100	QPSK	1	271	14.17					
100	QPSK	135	0	14.13			15.7	0.0	
100	QPSK	135	69	14.15			15.7	0.0	
100	QPSK	135	138	14.02			15.7	0.0	
100	QPSK	270	0	14.08			15.7	0.0	
100	16QAM	1	1	13.93			15.7	0.0	
100	64QAM	1	1	13.82			15.7	0.0	
100	256QAM	1	1	13.72			15.7	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.16	14.14	14.08	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.28	14.27	14.19	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.12	14.18	14.17	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.25	14.20	14.18	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.07	14.23	14.28	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.25	14.27	14.20	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.11	14.25	14.18	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.19	14.31	14.13	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.24	14.16	14.15	Tune-up limit (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.28	14.15	14.18	Tune-up limit (dB)	MPR (dB)	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	16.87	17.26	17.05		
40	PI/2 BPSK	1	53	16.73	17.06	16.98	18.4	0.0
40	PI/2 BPSK	1	104	16.60	16.89	16.89		
40	PI/2 BPSK	50	0	16.78	16.82	16.73	18.4	0.0
40	PI/2 BPSK	50	26	16.27	17.16	16.87	18.4	0.0
40	PI/2 BPSK	50	56	16.41	16.86	16.81		
40	PI/2 BPSK	100	0	16.59	16.77	16.74	18.4	0.0
40	QPSK	1	1	16.94	17.31	17.10		
40	QPSK	1	53	16.82	17.15	17.04	18.4	0.0
40	QPSK	1	104	16.76	17.09	16.93		
40	QPSK	50	0	17.03	16.99	16.77	18.4	0.0
40	QPSK	50	26	16.70	17.29	17.01	18.4	0.0
40	QPSK	50	56	16.47	16.98	16.69		
40	QPSK	100	0	16.63	16.87	16.76	18.4	0.0
40	16QAM	1	1	16.67	16.79	16.62	18.4	0.0
40	64QAM	1	1	16.90	16.85	16.56	18.4	0.0
40	256QAM	1	1	16.81	16.90	16.67	18.4	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555.02	3624.99	3694.98		
30	QPSK	1	1	16.72	17.16	17.05	18.4	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3593.01	3624.99	3690		
20	QPSK	1	1	16.63	17.03	17.04	18.4	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	16.74	17.08	16.88	18.4	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	15.71	15.79	15.46		
100	PI/2 BPSK	1	137	15.66	15.78	15.31	17.0	0.0
100	PI/2 BPSK	1	271	15.77	15.64	15.39		
100	PI/2 BPSK	135	0	15.67	15.64	15.51	17.0	0.0
100	PI/2 BPSK	135	69	15.75	15.70	15.32	17.0	0.0
100	PI/2 BPSK	135	138	15.63	15.69	15.40		
100	PI/2 BPSK	270	0	15.58	15.59	15.25	17.0	0.0
100	QPSK	1	1	15.90	15.91	15.54		
100	QPSK	1	137	15.83	15.87	15.47	17.0	0.0
100	QPSK	1	271	15.86	15.84	15.54		
100	QPSK	135	0	15.76	15.73	15.70	17.0	0.0
100	QPSK	135	69	15.85	15.90	15.40	17.0	0.0
100	QPSK	135	138	15.74	15.86	15.59		
100	QPSK	270	0	15.76	15.84	15.45	17.0	0.0
100	16QAM	1	1	15.99	15.79	15.34	17.0	0.0
100	64QAM	1	1	15.76	15.58	15.47	17.0	0.0
100	256QAM	1	1	15.73	15.61	15.34	17.0	0.0
Channel				646668	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	15.61	15.67	15.30	17.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3931.02		
80	QPSK	1	1	15.63	15.59	15.19	17.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	15.43	15.60	15.22	17.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.52	15.71	15.28	17.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	15.65	15.74	15.23	17.0	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.65	15.69	15.16	17.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	15.56	15.75	15.28	17.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	15.43	15.55	15.25	17.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51		
15	QPSK	1	1	15.62	15.59	15.24	17.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	15.61	15.73	15.25	17.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.64	16.72	16.30		
100	PI/2 BPSK	1	137	16.57	16.62	16.26	20.0	0.0
100	PI/2 BPSK	1	271	16.36	16.60	16.16		
100	PI/2 BPSK	135	0	16.24	16.65	16.34	20.0	0.0
100	PI/2 BPSK	135	69	16.32	16.64	16.22	20.0	0.0
100	PI/2 BPSK	135	138	16.28	16.60	16.24		
100	PI/2 BPSK	270	0	16.48	16.64	16.15	20.0	0.0
100	QPSK	1	1	16.67	16.92	16.40		
100	QPSK	1	137	16.64	16.88	16.38	20.0	0.0
100	QPSK	1	271	16.54	16.85	16.26		
100	QPSK	135	0	16.45	16.69	16.61	20.0	0.0
100	QPSK	135	69	16.58	16.70	16.34	20.0	0.0
100	QPSK	135	138	16.49	16.67	16.47		
100	QPSK	270	0	16.63	16.65	16.33	20.0	0.0
100	16QAM	1	1	16.25	16.72	16.01	20.0	0.0
100	64QAM	1	1	16.43	16.74	16.10	20.0	0.0
100	256QAM	1	1	16.29	16.61	16.02	20.0	0.0
Channel				665668	650000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.24	16.52	16.07	20.0	0.0
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3931.02		
80	QPSK	1	1	16.33	16.60	16.03	20.0	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.26	16.43	16.06	20.0	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.22	16.57	16.09	20.0	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.43	16.44	16.07	20.0	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.20	16.39	16.10	20.0	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.35	16.37	16.10	20.0	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.26	16.40	16.08	20.0	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.62	3840	3972.51		
15	QPSK	1	1	16.32	16.53	16.09	20.0	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.24	16.59	16.09	20.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)							3500.01	
100	PI2 BPSK	1	1	15.68				
100	PI2 BPSK	1	137	15.77			17.0	0.0
100	PI2 BPSK	1	271	15.81				
100	PI2 BPSK	135	0	15.72			17.0	0.0
100	PI2 BPSK	135	69	15.67			17.0	0.0
100	PI2 BPSK	135	138	15.63			17.0	0.0
100	PI2 BPSK	270	0	15.53			17.0	0.0
100	QPSK	1	1	15.50				
100	QPSK	1	137	15.83			17.0	0.0
100	QPSK	1	271	15.88				
100	QPSK	135	0	15.80			17.0	0.0
100	QPSK	135	69	15.86			17.0	0.0
100	QPSK	135	138	15.78			17.0	0.0
100	QPSK	270	0	15.76			17.0	0.0
100	16QAM	1	1	15.78			17.0	0.0
100	64QAM	1	1	15.78			17.0	0.0
100	256QAM	1	1	15.66			17.0	0.0
Channel							63300	63368
Frequency (MHz)							3495	3505.02
90	QPSK	1	1	15.68	15.72	15.71	17.0	0.0
Channel							632668	63334
Frequency (MHz)							3497.02	3507.01
80	QPSK	1	1	15.66	15.65	15.63	17.0	0.0
Channel							632334	63334
Frequency (MHz)							3485.01	3500.01
70	QPSK	1	1	15.81	15.77	15.84	17.0	0.0
Channel							3480	3500.01
Frequency (MHz)							3480	3500.01
60	QPSK	1	1	15.78	15.72	15.82	17.0	0.0
Channel							631668	63334
Frequency (MHz)							3476.01	3500.01
50	QPSK	1	1	15.77	15.79	15.81	17.0	0.0
Channel							631334	63334
Frequency (MHz)							3473.01	3500.01
40	QPSK	1	1	15.84	15.75	15.84	17.0	0.0
Channel							631000	63334
Frequency (MHz)							3465	3500.01
30	QPSK	1	1	15.70	15.84	15.83	17.0	0.0
Channel							630668	63334
Frequency (MHz)							3460.02	3500.01
20	QPSK	1	1	15.66	15.79	15.89	17.0	0.0
Channel							630500	63334
Frequency (MHz)							3457.01	3500.01
15	QPSK	1	1	15.84	15.83	15.81	17.0	0.0
Channel							630334	63334
Frequency (MHz)							3455.01	3500.01
10	QPSK	1	1	15.68	15.72	15.81	17.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)							3500.01	
100	PI2 BPSK	1	1	18.81				
100	PI2 BPSK	1	137	18.88			20.0	0.0
100	PI2 BPSK	1	271	18.58				
100	PI2 BPSK	135	0	18.46			20.0	0.0
100	PI2 BPSK	135	69	18.54			20.0	0.0
100	PI2 BPSK	135	138	18.56			20.0	0.0
100	PI2 BPSK	270	0	18.55			20.0	0.0
100	QPSK	1	1	18.87				
100	QPSK	1	137	18.76			20.0	0.0
100	QPSK	1	271	18.88				
100	QPSK	135	0	18.72			20.0	0.0
100	QPSK	135	69	18.76			20.0	0.0
100	QPSK	135	138	18.70			20.0	0.0
100	QPSK	270	0	18.67			20.0	0.0
100	16QAM	1	1	18.84			20.0	0.0
100	64QAM	1	1	18.47			20.0	0.0
100	256QAM	1	1	18.48			20.0	0.0
Channel							63300	63368
Frequency (MHz)							3495	3505.02
90	QPSK	1	1	18.45	18.41	18.47	20.0	0.0
Channel							632668	63334
Frequency (MHz)							3497.02	3507.01
80	QPSK	1	1	18.65	18.48	18.45	20.0	0.0
Channel							632334	63334
Frequency (MHz)							3485.01	3500.01
70	QPSK	1	1	18.02	18.46	18.42	20.0	0.0
Channel							3480	3500.01
Frequency (MHz)							3480	3500.01
60	QPSK	1	1	18.48	18.49	18.52	20.0	0.0
Channel							631668	63334
Frequency (MHz)							3476.01	3500.01
50	QPSK	1	1	18.59	18.43	18.45	20.0	0.0
Channel							631334	63334
Frequency (MHz)							3473.01	3500.01
40	QPSK	1	1	18.68	18.51	18.47	20.0	0.0
Channel							631000	63334
Frequency (MHz)							3465	3500.01
30	QPSK	1	1	18.68	18.53	18.57	20.0	0.0
Channel							630668	63334
Frequency (MHz)							3460.02	3500.01
20	QPSK	1	1	18.58	18.47	18.55	20.0	0.0
Channel							630500	63334
Frequency (MHz)							3457.01	3500.01
15	QPSK	1	1	18.58	18.40	18.49	20.0	0.0
Channel							630334	63334
Frequency (MHz)							3455.01	3500.01
10	QPSK	1	1	18.46	18.47	18.54	20.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)							3750	
100	PI2 BPSK	1	1	15.82				
100	PI2 BPSK	1	137	15.52			17.0	0.0
100	PI2 BPSK	1	271	15.82				
100	PI2 BPSK	135	0	15.80			17.0	0.0
100	PI2 BPSK	135	69	15.52			17.0	0.0
100	PI2 BPSK	135	138	15.39			17.0	0.0
100	PI2 BPSK	270	0	15.41			17.0	0.0
100	QPSK	1	1	15.79				
100	QPSK	1	137	15.75			17.0	0.0
100	QPSK	1	271	15.78				
100	QPSK	135	0	15.53			17.0	0.0
100	QPSK	135	69	15.60			17.0	0.0
100	QPSK	135	138	15.55			17.0	0.0
100	QPSK	270	0	15.56			17.0	0.0
100	16QAM	1	1	15.81			17.0	0.0
100	64QAM	1	1	15.64			17.0	0.0
100	256QAM	1	1	15.58			17.0	0.0
Channel							65868	65934
Frequency (MHz)							3745.02	3755.01
90	QPSK	1	1	15.44	15.34	15.16	17.0	0.0
Channel							64934	65000
Frequency (MHz)							3747.01	3757.02
80	QPSK	1	1	15.52	15.43	15.19	17.0	0.0
Channel							64900	65000
Frequency (MHz)							3735	3750
70	QPSK	1	1	15.48	15.45	15.20	17.0	0.0
Channel							3730.02	3750
Frequency (MHz)							3730.02	3750
60	QPSK	1	1	15.35	15.53	15.18	17.0	0.0
Channel							64834	65000
Frequency (MHz)							3725.01	3750
50	QPSK	1	1	15.46	15.39	15.04	17.0	0.0
Channel							64800	65000
Frequency (MHz)							3720	3750
40	QPSK	1	1	15.58	15.54	15.21	17.0	0.0
Channel							64768	65000
Frequency (MHz)							3715.02	3750
30	QPSK	1	1	15.47	15.42	15.24	17.0	0.0
Channel							64734	65000
Frequency (MHz)							3710.01	3750
20	QPSK	1	1	15.52	15.31	15.06	17.0	0.0
Channel							64700	65000
Frequency (MHz)							3707.52	3750
15	QPSK	1	1	15.43	15.46	15.23	17.0	0.0
Channel							64700	65000
Frequency (MHz)							3705	3750
10	QPSK	1	1	15.48	15.47	15.21	17.0	0.0



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Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.47	15.47	15.47	17.0	0.0
100	PI2 BPSK	1	127	15.50	15.50	15.50		
100	PI2 BPSK	1	271	15.82	15.82	15.82	17.0	0.0
100	PI2 BPSK	135	0	15.54	15.54	15.54		
100	PI2 BPSK	135	69	15.42	15.42	15.42	17.0	0.0
100	PI2 BPSK	135	138	15.37	15.37	15.37		
100	PI2 BPSK	270	0	15.43	15.43	15.43	17.0	0.0
100	QPSK	1	1	15.82	15.82	15.82		
100	QPSK	1	137	15.89	15.89	15.89	17.0	0.0
100	QPSK	1	271	16.76	16.76	16.76		
100	QPSK	135	0	15.85	15.85	15.85	17.0	0.0
100	QPSK	135	69	15.81	15.81	15.81		
100	QPSK	135	138	15.67	15.67	15.67	17.0	0.0
100	QPSK	270	0	15.51	15.51	15.51		
100	16QAM	1	1	15.80	15.80	15.80	17.0	0.0
100	64QAM	1	1	15.84	15.84	15.84		
100	256QAM	1	1	15.56	15.56	15.56	17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.58	15.47	15.56	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.59	15.69	15.55	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.49	15.60	15.54	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.49	15.58	15.64	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.50	15.47	15.55	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.59	15.52	15.67	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.59	15.55	15.48	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.42	15.55	15.57	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.54	15.54	15.66	17.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.47	15.85	15.45	17.0	0.0



Reduced Power Mode for Main PA DS110

n2 Main PA Ant0 DSI 10									
BW (MHz)	Modulation	RB 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	15.03	15.19	14.87	16.1	0.0	
20	PI2 BPSK	1	53	15.07	14.85	14.90			
20	PI2 BPSK	1	104	14.87	15.09	14.90			
20	PI2 BPSK	50	0	14.88	14.92	14.92	16.1	0.0	
20	PI2 BPSK	50	28	14.94	15.08	14.90	16.1	0.0	
20	PI2 BPSK	50	56	14.82	14.89	14.94	16.1	0.0	
20	PI2 BPSK	100	0	14.87	14.94	14.94			
20	QPSK	1	1	15.14	15.33	14.90			
20	QPSK	1	53	14.93	14.93	14.81	16.1	0.0	
20	QPSK	1	104	15.00	15.08	15.09			
20	QPSK	50	0	15.01	15.09	14.98	16.1	0.0	
20	QPSK	50	28	15.01	15.13	15.04	16.1	0.0	
20	QPSK	50	56	15.00	14.99	15.00	16.1	0.0	
20	QPSK	100	0	14.94	15.02	14.92			
20	16QAM	1	1	14.87	14.85	14.77	16.1	0.0	
20	16QAM	1	1	14.70	14.92	14.88	16.1	0.0	
20	256QAM	1	1	14.74	14.81	14.77	16.1	0.0	
Channel									
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1862.5	16.1	0.0	
15	QPSK	1	1	14.85	14.94	14.94	16.1	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1905	16.1	0.0	
10	QPSK	1	1	14.98	14.98	15.01	16.1	0.0	
Channel									
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1907.5	16.1	0.0	
5	QPSK	1	1	14.93	14.91	14.99	16.1	0.0	

n5 Main PA Ant0 DSI 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				16800	16700	167000			
20	PI2 BPSK	1	1	21.00	21.24	21.06			
20	PI2 BPSK	1	53	20.99	20.91	20.76	22.2	0.0	
20	PI2 BPSK	1	104	20.88	21.06	20.97			
20	PI2 BPSK	50	0	20.82	21.17	20.83	22.2	0.0	
20	PI2 BPSK	50	28	20.99	21.21	20.75	22.2	0.0	
20	PI2 BPSK	50	56	20.96	20.94	20.79	22.2	0.0	
20	PI2 BPSK	100	0	21.02	21.15	20.86			
20	QPSK	1	1	21.05	21.34	21.02			
20	QPSK	1	53	21.05	20.93	20.89	22.2	0.0	
20	QPSK	1	104	20.85	21.19	20.98			
20	QPSK	50	0	20.95	21.18	20.96	22.2	0.0	
20	QPSK	50	28	21.03	21.32	20.93	22.2	0.0	
20	QPSK	50	56	21.04	21.12	20.96	22.2	0.0	
20	QPSK	100	0	21.08	21.24	20.96			
20	16QAM	1	1	20.96	20.94	20.86	22.2	0.0	
20	64QAM	1	1	20.92	20.90	20.89	22.2	0.0	
20	256QAM	1	1	20.10	20.15	20.08	20.5	1.7	
Channel									
Frequency (MHz)				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.2	836.5	841.5	16.1	0.0	
15	QPSK	1	1	20.93	21.13	20.85	22.2	0.0	
Channel									
Frequency (MHz)				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	16.1	0.0	
10	QPSK	1	1	20.90	21.17	20.98	22.2	0.0	
Channel									
Frequency (MHz)				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5	16.1	0.0	
5	QPSK	1	1	20.85	21.14	20.90	22.2	0.0	

n7 Main PA Ant0 DSI 10									
BW (MHz)	Modulation	RB 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	14.03	14.35	13.99			
40	PI2 BPSK	1	108	13.90	14.05	13.97	15.6	0.0	
40	PI2 BPSK	1	214	14.02	14.23	14.02			
40	PI2 BPSK	108	0	13.94	13.90	14.07	15.6	0.0	
40	PI2 BPSK	108	54	14.01	14.13	13.98	15.6	0.0	
40	PI2 BPSK	108	108	13.84	13.94	13.85	15.6	0.0	
40	PI2 BPSK	216	0	14.00	14.05	14.00			
40	QPSK	1	1	14.18	14.43	14.13			
40	QPSK	1	108	14.02	14.10	14.04	15.8	0.0	
40	QPSK	1	214	14.17	14.19	14.14			
40	QPSK	108	0	14.11	13.99	14.02	15.6	0.0	
40	QPSK	108	54	14.14	14.28	14.03	15.6	0.0	
40	QPSK	108	108	13.96	14.06	13.98	15.6	0.0	
40	QPSK	216	0	14.00	14.06	14.02			
40	16QAM	1	1	14.01	13.98	13.91	15.6	0.0	
40	64QAM	1	1	14.02	13.88	13.98	15.6	0.0	
40	256QAM	1	1	14.03	14.03	14.03	15.6	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	16.1	0.0	
30	QPSK	1	1	13.91	13.99	14.00	15.6	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	16.1	0.0	
25	QPSK	1	1	13.89	14.02	13.91	15.6	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	16.1	0.0	
20	PI2 BPSK	1	1	13.95	13.97	13.95	15.6	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	16.1	0.0	
15	QPSK	1	1	13.97	13.98	13.94	15.6	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	16.1	0.0	
10	QPSK	1	1	13.88	14.08	14.01	15.6	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	16.1	0.0	
5	QPSK	1	1	13.93	13.97	13.99	15.6	0.0	



n12 Main PA Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				141300	141500	141700		
Frequency (MHz)				708.5	707.5	708.5		
15	PI2 BPSK	1	1	23.32	23.35	23.26		
15	PI2 BPSK	1	40	23.15	23.23	23.18	24.0	0.0
15	PI2 BPSK	1	77	23.09	23.17	23.15		
15	PI2 BPSK	36	0	23.15	23.23	23.15	24.0	0.0
15	PI2 BPSK	36	22	23.11	23.18	23.14	24.0	0.0
15	PI2 BPSK	36	43	23.09	23.13	23.10	24.0	0.0
15	PI2 BPSK	75	0	23.19	23.26	23.16		
15	QPSK	1	1	23.27	23.37	23.29		
15	QPSK	1	40	23.14	23.22	23.16	24.0	0.0
15	QPSK	1	77	23.05	23.13	23.07		
15	QPSK	36	0	23.16	23.26	23.20	24.0	0.0
15	QPSK	36	22	23.23	23.32	23.28	24.0	0.0
15	QPSK	36	43	23.08	23.13	23.10	24.0	0.0
15	QPSK	75	0	23.14	23.24	23.21		
15	16QAM	1	1	23.11	23.17	23.08	24.0	0.0
15	16QAM	1	1	22.00	22.02	21.95	22.5	1.5
15	256QAM	1	1	20.40	20.46	20.40	20.5	3.5
Channel								
Frequency (MHz)				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.25	23.34	23.26	24.0	0.0
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.25	23.30	23.23	24.0	0.0

n14 Main PA Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				156800				
Frequency (MHz)				793				
10	PI2 BPSK	1	1		23.38			
10	PI2 BPSK	1	26		23.32		24.0	0.0
10	PI2 BPSK	1	50		23.34			
10	PI2 BPSK	25	0		23.33		24.0	0.0
10	PI2 BPSK	25	14		23.34		24.0	0.0
10	PI2 BPSK	25	27		23.36		24.0	0.0
10	PI2 BPSK	50	0		23.27			
10	QPSK	1	1		23.51			
10	QPSK	1	26		23.28		24.0	0.0
10	QPSK	1	50		23.18			
10	QPSK	25	0		23.27		24.0	0.0
10	QPSK	25	14		23.40		24.0	0.0
10	QPSK	25	27		23.30		24.0	0.0
10	QPSK	50	0		23.36			
10	16QAM	1	1		23.46		24.0	0.0
10	16QAM	1	1		22.50		23.0	1.0
10	256QAM	1	1		20.97		21.0	3.0
Channel								
Frequency (MHz)				158100	158800	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	23.44	23.44	23.42	24.0	0.0

n25 Main PA Ant0 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				375000				
Frequency (MHz)				1880				
Frequency (MHz)				1882.5				
Frequency (MHz)				1905				
20	PI2 BPSK	1	1	16.57	16.73	16.48		
20	PI2 BPSK	1	53	16.59	16.47	16.46	18.1	0.0
20	PI2 BPSK	1	104	16.43	16.69	16.55		
20	PI2 BPSK	50	0	16.52	16.54	16.56	18.1	0.0
20	PI2 BPSK	50	28	16.47	16.66	16.52	18.1	0.0
20	PI2 BPSK	50	56	16.35	16.50	16.47	18.1	0.0
20	PI2 BPSK	100	0	16.45	16.59	16.46		
20	QPSK	1	1	16.75	16.98	16.52		
20	QPSK	1	53	16.54	16.52	16.45	18.1	0.0
20	QPSK	1	104	16.59	16.70	16.63		
20	QPSK	50	0	16.57	16.68	16.53	18.1	0.0
20	QPSK	50	28	16.59	16.91	16.60	18.1	0.0
20	QPSK	50	56	16.53	16.61	16.59	18.1	0.0
20	QPSK	100	0	16.55	16.84	16.54		
20	16QAM	1	1	16.27	16.46	16.35	18.1	0.0
20	16QAM	1	1	16.25	16.52	16.42	18.1	0.0
20	256QAM	1	1	16.31	16.45	16.33	18.1	0.0
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1877.5	1892.5	1917.5		
15	QPSK	1	1	16.61	16.69	16.52	18.1	0.0
Channel								
Frequency (MHz)				371000			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855				
Frequency (MHz)				1882.5				
Frequency (MHz)				1910				
10	QPSK	1	1	16.88	16.67	16.57	18.1	0.0
Channel								
Frequency (MHz)				370500			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5				
Frequency (MHz)				1882.5				
Frequency (MHz)				1912.5				
5	QPSK	1	1	16.60	16.74	16.51	18.1	0.0



n26 Main PA Ant0 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				624	631.5	639		
20	PI2 BPSK	1	1	21.05	21.37	21.12	22.2	0.0
20	PI2 BPSK	1	53	21.06	20.97	20.81		
20	PI2 BPSK	1	104	20.94	21.13	20.97		
20	PI2 BPSK	50	0	20.88	21.20	20.94	22.2	0.0
20	PI2 BPSK	50	28	21.12	21.32	20.87	22.2	0.0
20	PI2 BPSK	50	56	21.09	21.06	20.89	22.2	0.0
20	PI2 BPSK	100	0	21.05	21.28	21.02		
20	QPSK	1	1	21.18	21.46	21.15		
20	QPSK	1	53	21.11	21.08	20.93	22.2	0.0
20	QPSK	1	104	20.98	21.23	20.99		
20	QPSK	50	0	21.02	21.29	21.01		
20	QPSK	50	28	21.15	21.34	21.00	22.2	0.0
20	QPSK	50	56	21.11	21.15	21.02	22.2	0.0
20	QPSK	100	0	21.11	21.29	21.04	22.2	0.0
20	16QAM	1	1	21.04	21.01	20.90		
20	64QAM	1	1	20.99	21.01	20.94		
20	256QAM	1	1	20.09	20.26	20.09	20.4	1.8
Channel								
Frequency (MHz)								
				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.03	21.12	21.00	22.2	0.0
Channel								
Frequency (MHz)								
				619	631.5	644		
10	QPSK	1	1	21.02	21.08	20.91	22.2	0.0
Channel								
Frequency (MHz)								
				816.5	831.5	846.5		
5	QPSK	1	1	21.03	21.06	20.98	22.2	0.0

n30 Main PA Ant0 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				2310				
10	PI2 BPSK	1	1	18.11			19.3	0.0
10	PI2 BPSK	1	26	18.03				
10	PI2 BPSK	1	50	17.94				
10	PI2 BPSK	25	0	17.96			19.3	0.0
10	PI2 BPSK	25	14	18.06			19.3	0.0
10	PI2 BPSK	25	27	17.80			19.3	0.0
10	PI2 BPSK	50	0	17.87				
10	QPSK	1	1	18.24				
10	QPSK	1	26	18.12			19.3	0.0
10	QPSK	1	50	18.03				
10	QPSK	25	0	18.08				
10	QPSK	25	14	18.09			19.3	0.0
10	QPSK	25	27	17.85			19.3	0.0
10	QPSK	50	0	17.88			19.3	0.0
10	16QAM	1	1	17.87				
10	64QAM	1	1	17.59				
10	256QAM	1	1	17.22			17.5	1.8
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.88	17.84	17.56	19.3	0.0

n66 Main PA Ant0 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				1790	1745	1760		
40	PI2 BPSK	1	1	14.94	14.97	14.63	15.6	0.0
40	PI2 BPSK	1	108	14.77	14.68	14.69		
40	PI2 BPSK	1	214	14.47	14.51	14.56		
40	PI2 BPSK	108	0	14.46	14.56	14.52	15.6	0.0
40	PI2 BPSK	108	54	14.58	14.79	14.49	15.6	0.0
40	PI2 BPSK	108	108	14.33	14.43	14.49	15.6	0.0
40	PI2 BPSK	216	0	14.47	14.61	14.57		
40	QPSK	1	1	15.01	15.07	14.75		
40	QPSK	1	108	14.76	14.83	14.76	15.6	0.0
40	QPSK	1	214	14.58	14.64	14.69		
40	QPSK	108	0	14.50	14.56	14.67		
40	QPSK	108	54	14.69	14.96	14.70	15.6	0.0
40	QPSK	108	108	14.48	14.54	14.52	15.6	0.0
40	QPSK	216	0	14.54	14.65	14.58	15.6	0.0
40	16QAM	1	1	14.37	14.47	14.49		
40	64QAM	1	1	14.45	14.47	14.42		
40	256QAM	1	1	14.37	14.42	14.37	15.6	0.0
Channel								
Frequency (MHz)								
				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.54	14.61	14.59	15.6	0.0
Channel								
Frequency (MHz)								
				1720	1745	1770		
20	QPSK	1	1	14.47	14.51	14.53	15.6	0.0
Channel								
Frequency (MHz)								
				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.44	14.55	14.56	15.6	0.0
Channel								
Frequency (MHz)								
				1715	1745	1775		
10	QPSK	1	1	14.53	14.58	14.59	15.6	0.0
Channel								
Frequency (MHz)								
				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.52	14.53	14.59	15.6	0.0



n70 Main PA Ant0 DSI 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	PI/2 BPSK	1	1	17.92	18.41		19.4	0.0
15	PI/2 BPSK	1	40	18.32				
15	PI/2 BPSK	1	77	18.35				
15	PI/2 BPSK	36	0	18.30			19.4	0.0
15	PI/2 BPSK	36	22	18.37			19.4	0.0
15	PI/2 BPSK	36	43	18.32			19.4	0.0
15	PI/2 BPSK	75	0	18.28				
15	QPSK	1	1	18.44			19.4	0.0
15	QPSK	1	40	18.37				
15	QPSK	1	77	18.45				
15	QPSK	36	0	18.39			19.4	0.0
15	QPSK	36	22	18.42			19.4	0.0
15	QPSK	36	43	18.39			19.4	0.0
15	QPSK	75	0	18.40				
15	16QAM	1	1	18.38			19.4	0.0
15	64QAM	1	1	18.38			19.4	0.0
20	256QAM	1	1	18.36			19.4	0.0
Channel								
				340000	340500	341000	Tune-up limit (dBm)	MPR
Frequency (MHz)								
10	QPSK	1	1	17.02	17.02.5	17.05	19.4	0.0
Channel								
				339500	340500	341500	Tune-up limit (dBm)	MPR
Frequency (MHz)								
5	QPSK	1	1	18.27	18.35	18.29	19.4	0.0

n71 Main PA Ant0 Default								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PI/2 BPSK	1	1	23.37	23.41	23.34	24.0	0.0
20	PI/2 BPSK	1	53	23.32	23.37	23.30		
20	PI/2 BPSK	1	104	23.19	23.27	23.16		
20	PI/2 BPSK	50	0	22.99	23.07	23.05	23.5	0.5
20	PI/2 BPSK	50	28	23.35	23.43	23.39	24.0	0.0
20	PI/2 BPSK	50	56	22.91	22.94	22.87	23.5	0.5
20	PI/2 BPSK	100	0	23.07	23.11	23.02		
20	QPSK	1	1	23.51	23.62	23.41	24.0	0.0
20	QPSK	1	53	23.47	23.50	23.42		
20	QPSK	1	104	23.32	23.35	23.25		
20	QPSK	50	0	22.56	22.62	22.57	23.0	1.0
20	QPSK	50	28	23.50	23.58	23.52	24.0	0.0
20	QPSK	50	56	22.42	22.49	22.41	23.0	1.0
20	QPSK	100	0	22.50	22.54	22.46		
20	16QAM	1	1	22.63	22.66	22.61	23.0	1.0
20	64QAM	1	1	20.79	20.88	20.80	21.5	2.5
20	256QAM	1	1	19.24	19.29	19.25	19.5	4.5
Channel								
				134100	136100	138100	Tune-up limit (dBm)	MPR
Frequency (MHz)								
15	QPSK	1	1	670.2	680.5	690.5	24.0	0.0
Channel								
				133600	136100	138600	Tune-up limit (dBm)	MPR
Frequency (MHz)								
10	QPSK	1	1	668	680.5	693	24.0	0.0
Channel								
				133100	133110	133110	Tune-up limit (dBm)	MPR
Frequency (MHz)								
5	QPSK	1	1	23.43	23.59	23.33	24.0	0.0



n41 Main PA Ant0 DSI 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				2560.02	5189.98	5290.00		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	13.81	13.77	13.89		
100	PI2 BPSK	1	137	13.39	13.71	13.99	15,1	0,0
100	PI2 BPSK	1	271	13.56	13.61	13.99		
100	PI2 BPSK	135	0	13.63	13.80	13.97	15,1	0,0
100	PI2 BPSK	135	69	13.80	13.81	13.88	15,1	0,0
100	PI2 BPSK	135	138	13.68	13.68	13.63	15,1	0,0
100	PI2 BPSK	270	0	13.73	13.70	13.75		
100	QPSK	1	1	13.78	13.93	13.88		
100	QPSK	1	137	13.65	13.76	13.64	15,1	0,0
100	QPSK	1	271	13.57	13.60	13.59		
100	QPSK	135	0	13.72	13.82	13.85	15,1	0,0
100	QPSK	135	69	13.82	13.84	13.71	15,1	0,0
100	QPSK	135	138	13.65	13.70	13.79	15,1	0,0
100	QPSK	270	0	13.74	13.83	13.75		
100	16QAM	1	1	13.62	13.67	13.64	15,1	0,0
100	64QAM	1	1	13.58	13.58	13.55	15,1	0,0
100	256QAM	1	1	13.52	13.55	13.48	15,1	0,0
Channel				508200	5189.98	5299.98	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.99	(dBm)	(dB)
90	QPSK	1	1	13.72	13.82	13.55	15,1	0,0
Channel				507204	5189.98	5299.98	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	13.86	13.84	13.60	15,1	0,0
Channel				506202	5189.98	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	13.70	13.84	13.58	15,1	0,0
Channel				505200	5189.98	531998	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	13.67	13.80	13.82	15,1	0,0
Channel				504204	5189.98	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2659.99	(dBm)	(dB)
50	QPSK	1	1	13.63	13.83	13.59	15,1	0,0
Channel				503202	5189.98	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	13.72	13.84	13.54	15,1	0,0
Channel				502200	5189.98	534998	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	13.76	13.83	13.64	15,1	0,0
Channel				501204	5189.98	535998	Tune-up limit	MPR
Frequency (MHz)				2506.00	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	13.73	13.80	13.81	15,1	0,0



n41 PC2 Main PA Ant0 DSI 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	16.83	16.80	16.71	18.1	0.0	
100	PI2 BPSK	1	137	16.36	16.76	16.58			
100	PI2 BPSK	1	271	16.54	16.58	16.53			
100	PI2 BPSK	135	0	16.65	16.82	16.53	18.1	0.0	
100	PI2 BPSK	135	69	16.75	16.79	16.74	18.1	0.0	
100	PI2 BPSK	135	138	16.72	16.88	16.83	18.1	0.0	
100	PI2 BPSK	270	0	16.76	16.68	16.70			
100	QPSK	1	1	16.76	16.89	16.67			
100	QPSK	1	137	16.63	16.73	16.60	18.1	0.0	
100	QPSK	1	271	16.55	16.60	16.53			
100	QPSK	135	0	16.86	16.77	16.64	18.1	0.0	
100	QPSK	135	69	16.86	16.87	16.71	18.1	0.0	
100	QPSK	135	138	16.82	16.73	16.84	18.1	0.0	
100	QPSK	270	0	16.75	16.81	16.71			
100	16QAM	1	1	16.64	16.63	16.58	18.1	0.0	
100	64QAM	1	1	16.56	16.56	16.58	18.1	0.0	
100	256QAM	1	1	16.47	16.51	16.52	18.1	0.0	
Channel				508200	518598	528998	Tune-up limit	MPR	
Frequency (MHz)				2544	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	16.74	16.87	16.59	18.1	0.0	
Channel				507204	518598	528998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	16.63	16.86	16.63	18.1	0.0	
Channel				509202	518598	521000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2656	(dBm)	(dB)	
70	QPSK	1	1	16.69	16.80	16.59	18.1	0.0	
Channel				506200	518598	531998	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2669.98	(dBm)	(dB)	
60	QPSK	1	1	16.70	16.80	16.57	18.1	0.0	
Channel				504204	518598	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2694.99	(dBm)	(dB)	
50	QPSK	1	1	16.74	16.83	16.57	18.1	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	16.62	16.80	16.53	18.1	0.0	
Channel				502200	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	16.71	16.75	16.65	18.1	0.0	
Channel				501204	518598	535998	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	16.63	16.86	16.59	18.1	0.0	



n2 Main PA Ant1 DSI 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1800	1880	1900		
20	PI2 BPSK	1	1	11.30	11.49	11.27		
20	PI2 BPSK	1	53	11.29	11.16	11.23	12.9	0.0
20	PI2 BPSK	1	104	11.37	11.40	11.44		
20	PI2 BPSK	50	0	11.23	11.24	11.09	12.9	0.0
20	PI2 BPSK	50	28	11.13	11.37	11.23	12.9	0.0
20	PI2 BPSK	50	56	11.18	11.13	11.05	12.9	0.0
20	PI2 BPSK	100	0	11.21	11.26	11.03		
20	QPSK	1	1	11.29	11.61	11.22		
20	QPSK	1	53	11.41	11.31	11.36	12.9	0.0
20	QPSK	1	104	11.46	11.40	11.54		
20	QPSK	50	0	11.30	11.27	11.17	12.9	0.0
20	QPSK	50	28	11.23	11.38	11.22	12.9	0.0
20	QPSK	50	56	11.22	11.26	11.15	12.9	0.0
20	QPSK	100	0	11.14	11.39	11.32		
20	16QAM	1	1	11.41	11.42	11.36	12.9	0.0
20	64QAM	1	1	11.38	11.38	11.55	12.9	0.0
20	256QAM	1	1	11.43	11.22	11.44	12.9	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	1637.5	1850	1826.5	12.9	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	1855	1880	1905	12.9	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	1852.5	1880	1907.5	12.9	0.0

n5 Main PA Ant1 DSI 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166000	167300	167600		
20	PI2 BPSK	1	1	19.60	19.88	19.74		
20	PI2 BPSK	1	50	19.47	19.46	19.22	21.3	0.0
20	PI2 BPSK	1	104	19.73	19.75	19.72		
20	PI2 BPSK	50	0	19.42	19.44	19.61	21.3	0.0
20	PI2 BPSK	50	28	19.42	19.81	19.52	21.3	0.0
20	PI2 BPSK	50	56	19.59	19.66	19.33	21.3	0.0
20	PI2 BPSK	100	0	19.57	19.44	19.39		
20	QPSK	1	1	19.79	19.97	19.87		
20	QPSK	1	53	19.57	19.55	19.65	21.3	0.0
20	QPSK	1	104	19.63	19.84	19.71		
20	QPSK	50	0	19.58	19.60	19.70	21.3	0.0
20	QPSK	50	28	19.59	19.84	19.58	21.3	0.0
20	QPSK	50	56	19.61	19.63	19.42	21.3	0.0
20	QPSK	100	0	19.62	19.63	19.53		
20	16QAM	1	1	19.50	19.54	19.51	21.3	0.0
20	64QAM	1	1	19.51	19.49	19.54	21.3	0.0
20	256QAM	1	1	19.49	19.50	19.51	21.0	0.3
Channel								
Frequency (MHz)				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	831.5	838.5	841.5	21.3	0.0
Channel								
Frequency (MHz)				168000	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	820	836.5	844	21.3	0.0
Channel								
Frequency (MHz)				168500	167300	169500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	826.5	836.5	846.5	21.3	0.0

n7 Main PA Ant1 DSI 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				50000	50700	51000		
40	PI2 BPSK	1	1	13.09	13.88	13.73		
40	PI2 BPSK	1	108	13.08	13.76	13.74	15.0	0.0
40	PI2 BPSK	1	214	13.32	13.47	13.33		
40	PI2 BPSK	108	0	13.55	13.58	13.66	15.0	0.0
40	PI2 BPSK	108	54	13.50	13.65	13.51	15.0	0.0
40	PI2 BPSK	108	108	13.54	13.50	13.44	15.0	0.0
40	PI2 BPSK	216	0	13.44	13.53	13.52		
40	QPSK	1	1	13.80	14.02	13.86		
40	QPSK	1	108	13.79	13.86	13.78	15.0	0.0
40	QPSK	1	214	13.48	13.56	13.42		
40	QPSK	108	0	13.54	13.73	13.68	15.0	0.0
40	QPSK	108	54	13.52	13.78	13.62	15.0	0.0
40	QPSK	108	108	13.52	13.59	13.55	15.0	0.0
40	QPSK	216	0	13.53	13.69	13.59		
40	16QAM	1	1	13.24	13.35	13.22	15.0	0.0
40	64QAM	1	1	13.22	13.35	13.22	15.0	0.0
40	256QAM	1	1	13.22	13.44	13.24	15.0	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	2515	2535	2552	15.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	2512.5	2535	2557.5	15.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	13.43	13.43	13.37	15.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.45	13.53	13.30	15.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	13.40	13.44	13.33	15.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	13.41	13.47	13.36	15.0	0.0



n12 Main PA Ant1 DSI 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				14300	14150	14100		
				706.5	707.5	708.5		
15	PI2 BPSK	1	1	21.89	21.89	21.81		
15	PI2 BPSK	1	40	21.80	21.83	21.81	23.0	0.0
15	PI2 BPSK	1	77	21.71	21.77	21.67		
15	PI2 BPSK	36	0	21.70	21.69	21.58	23.0	0.0
15	PI2 BPSK	36	22	21.77	21.74	21.74	23.0	0.0
15	PI2 BPSK	36	43	21.86	21.73	21.63		
15	PI2 BPSK	75	0	21.83	21.68	21.60	23.0	0.0
15	QPSK	1	1	21.80	21.95	21.83		
15	QPSK	1	40	21.86	21.95	21.86	23.0	0.0
15	QPSK	1	77	21.83	21.81	21.78		
15	QPSK	36	0	21.80	21.75	21.70	23.0	0.0
15	QPSK	36	22	21.80	21.83	21.82	23.0	0.0
15	QPSK	36	43	21.76	21.82	21.89	23.0	0.0
15	QPSK	75	0	21.76	21.78	21.71		
15	16QAM	1	1	21.75	21.87	21.73	23.0	0.0
15	64QAM	1	1	21.74	21.95	21.78	23.0	0.0
15	256QAM	1	1	20.42	20.49	20.47	21.0	2.0
Channel								
Frequency (MHz)				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
				704	707.5	711		
10	QPSK	1	1	21.73	21.77	21.79	23.0	0.0
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
				701.5	707.5	713.5		
5	QPSK	1	1	21.76	21.79	21.72	23.0	0.0

n14 Main PA Ant1 DSI 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16600				
				793				
10	PI2 BPSK	1	1		21.97			
10	PI2 BPSK	1	26		21.88		22.9	0.0
10	PI2 BPSK	1	50		21.75			
10	PI2 BPSK	25	0		21.69		22.9	0.0
10	PI2 BPSK	25	14		21.74		22.9	0.0
10	PI2 BPSK	25	27		21.83			
10	PI2 BPSK	50	0		21.75		22.9	0.0
10	QPSK	1	1		22.11			
10	QPSK	1	26		21.74		22.9	0.0
10	QPSK	1	50		21.81			
10	QPSK	25	0		21.76		22.9	0.0
10	QPSK	25	14		21.91		22.9	0.0
10	QPSK	25	27		21.86		22.9	0.0
10	QPSK	50	0		21.84			
10	16QAM	1	1		21.69		22.9	0.0
10	64QAM	1	1		21.69		22.9	0.0
10	256QAM	1	1		20.58		21.0	1.9
Channel								
Frequency (MHz)				158100	158800	159100	Tune-up limit (dBm)	MPR (dB)
				792.5	793	793.5		
5	QPSK	1	1	21.82	21.65	21.65	22.9	0.0

n25 Main PA Ant1 DSI 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				372000	376500	381000		
				1860	1882.5	1905		
20	PI2 BPSK	1	1	11.35	11.53	11.31		
20	PI2 BPSK	1	53	11.34	11.26	11.31	12.9	0.0
20	PI2 BPSK	1	104	11.45	11.47	11.51		
20	PI2 BPSK	50	0	11.30	11.36	11.14	12.9	0.0
20	PI2 BPSK	50	28	11.19	11.41	11.26	12.9	0.0
20	PI2 BPSK	50	55	11.23	11.25	11.17		
20	PI2 BPSK	100	0	11.23	11.36	11.15	12.9	0.0
20	QPSK	1	1	11.39	11.65	11.32		
20	QPSK	1	53	11.47	11.41	11.41	12.9	0.0
20	QPSK	1	104	11.57	11.47	11.57		
20	QPSK	50	0	11.40	11.39	11.23	12.9	0.0
20	QPSK	50	28	11.36	11.51	11.28	12.9	0.0
20	QPSK	50	55	11.31	11.36	11.25	12.9	0.0
20	QPSK	100	0	11.27	11.41	11.34		
20	16QAM	1	1	11.52	11.45	11.48	12.9	0.0
20	64QAM	1	1	11.52	11.45	11.58	12.9	0.0
20	256QAM	1	1	11.50	11.34	11.53	12.9	0.0
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
				1857.5	1882.5	1907.5		
15	QPSK	1	1	11.25	11.53	11.19	12.9	0.0
Channel								
Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
				1855	1882.5	1910		
10	QPSK	1	1	11.27	11.53	11.30	12.9	0.0
Channel								
Frequency (MHz)				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
				1852.5	1882.5	1912.5		
5	QPSK	1	1	11.29	11.57	11.25	12.9	0.0



n26 Main PA Ant1 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				824	831.5	839		
20	PI2 BPSK	1	1	19.73	19.94	19.86	21.3	0.0
20	PI2 BPSK	1	53	19.58	19.55	19.84		
20	PI2 BPSK	1	104	19.84	19.82	19.76		
20	PI2 BPSK	50	0	19.48	19.56	19.66	21.3	0.0
20	PI2 BPSK	50	28	19.52	19.94	19.60	21.3	0.0
20	PI2 BPSK	50	56	19.63	19.74	19.45	21.3	0.0
20	PI2 BPSK	100	0	19.62	19.66	19.50		
20	QPSK	1	1	19.86	20.03	19.96		
20	QPSK	1	53	19.67	19.67	19.73	21.3	0.0
20	QPSK	1	104	19.86	19.67	19.84		
20	QPSK	50	0	19.90	19.68	19.72	21.3	0.0
20	QPSK	50	28	19.82	19.97	19.69	21.3	0.0
20	QPSK	50	56	19.75	19.76	19.56	21.3	0.0
20	QPSK	100	0	19.71	19.75	19.59		
20	16QAM	1	1	19.53	19.65	19.61	21.3	0.0
20	64QAM	1	1	19.57	19.57	19.64	21.3	0.0
20	256QAM	1	1	19.55	19.58	19.64	21.0	0.3
Channel								
Frequency (MHz)								
				164300	166300	168300	Tune-up limit (dB)	MPR
15	QPSK	1	1	19.54	19.53	19.66	21.3	0.0
Channel								
Frequency (MHz)								
				819	831.5	844	(dBm)	(dB)
10	QPSK	1	1	19.82	19.83	19.88	21.3	0.0
Channel								
Frequency (MHz)								
				816.5	831.5	846.5	(dBm)	(dB)
5	QPSK	1	1	19.61	19.61	19.60	21.3	0.0

n30 Main PA Ant1 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				462000	462000	462000		
10	PI2 BPSK	1	1	15.30				
10	PI2 BPSK	1	26	15.26			16.0	0.0
10	PI2 BPSK	1	40	14.78				
10	PI2 BPSK	25	0	14.76			16.0	0.0
10	PI2 BPSK	25	14	15.13			16.0	0.0
10	PI2 BPSK	25	27	14.87			16.0	0.0
10	PI2 BPSK	50	0	15.00				
10	QPSK	1	1	15.34				
10	QPSK	1	26	15.31			16.0	0.0
10	QPSK	1	50	14.81				
10	QPSK	25	0	14.88			16.0	0.0
10	QPSK	25	14	15.16			16.0	0.0
10	QPSK	25	27	14.91			16.0	0.0
10	QPSK	50	0	15.09				
10	16QAM	1	1	14.88			16.0	0.0
10	64QAM	1	1	14.88			16.0	0.0
10	256QAM	1	1	14.88			16.0	0.0
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dB)	MPR
5	QPSK	1	1	14.87	14.80	14.85	16.0	0.0

n66 Main PA Ant1 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				1730	1745	1760		
40	PI2 BPSK	1	1	11.92	11.96	11.75		
40	PI2 BPSK	1	108	11.89	11.88	11.81	13.0	0.0
40	PI2 BPSK	1	214	11.60	11.83	11.70		
40	PI2 BPSK	108	0	11.67	11.86	11.76	13.0	0.0
40	PI2 BPSK	108	54	11.60	11.95	11.88	13.0	0.0
40	PI2 BPSK	108	108	11.96	11.73	11.84	13.0	0.0
40	PI2 BPSK	216	0	11.70	11.78	11.67		
40	QPSK	1	1	11.99	12.00	11.89		
40	QPSK	1	108	11.88	11.99	11.88	13.0	0.0
40	QPSK	1	214	11.86	11.99	11.85		
40	QPSK	108	0	11.78	11.90	11.88	13.0	0.0
40	QPSK	108	54	11.86	11.93	11.71	13.0	0.0
40	QPSK	108	108	11.89	11.89	11.92	13.0	0.0
40	QPSK	216	0	11.72	11.77	11.74		
40	16QAM	1	1	11.85	11.78	11.82	13.0	0.0
40	64QAM	1	1	11.91	11.90	11.82	13.0	0.0
40	256QAM	1	1	11.83	11.79	11.87	13.0	0.0
Channel								
Frequency (MHz)								
				345000	349000	353000	Tune-up limit (dB)	MPR
30	QPSK	1	1	11.75	11.74	11.65	(dBm)	(dB)
Channel								
Frequency (MHz)								
				344000	349000	354000	Tune-up limit (dBm)	MPR
20	QPSK	1	1	11.82	11.80	11.89	13.0	0.0
Channel								
Frequency (MHz)								
				345500	349500	353500	Tune-up limit (dBm)	MPR
15	QPSK	1	1	11.75	11.86	11.81	(dBm)	(dB)
Channel								
Frequency (MHz)								
				345500	349500	353500	Tune-up limit (dBm)	MPR
10	QPSK	1	1	11.85	11.88	11.74	13.0	0.0
Channel								
Frequency (MHz)								
				342500	349000	355500	Tune-up limit (dBm)	MPR
5	QPSK	1	1	11.82	11.88	11.80	13.0	0.0



n70 Main PA Ant1 DSI 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				340000				
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1	12.98			13.4	0.0
15	PI/2 BPSK	1	40	12.55				
15	PI/2 BPSK	1	77	12.25				
15	PI/2 BPSK	36	0	12.34			13.4	0.0
15	PI/2 BPSK	36	22	12.47			13.4	0.0
15	PI/2 BPSK	36	43	12.41			13.4	0.0
15	PI/2 BPSK	75	0	12.45				
15	QPSK	1	1	12.69				
15	QPSK	1	40	12.63			13.4	0.0
15	QPSK	1	77	12.38				
15	QPSK	36	0	12.45			13.4	0.0
15	QPSK	36	22	12.54			13.4	0.0
15	QPSK	36	43	12.47			13.4	0.0
15	QPSK	75	0	12.53				
15	16QAM	1	1	12.61			13.4	0.0
15	64QAM	1	1	12.51			13.4	0.0
20	256QAM	1	1	12.49			13.4	0.0
Channel				340000				
Frequency (MHz)				1702.5				
10	QPSK	1	1	12.45	12.50	12.47	13.4	0.0
Channel				339500				
Frequency (MHz)				1697.5				
5	QPSK	1	1	12.41	12.40	12.43	13.4	0.0

n71 Main PA Ant1 DSI 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				134000				
Frequency (MHz)				673				
20	PI/2 BPSK	1	1	23.26	23.60	23.14		
20	PI/2 BPSK	1	53	23.16	23.12	22.99	24.5	0.0
20	PI/2 BPSK	1	104	22.90	23.18	23.08		
20	PI/2 BPSK	50	0	22.78	22.96	22.72	24.5	0.0
20	PI/2 BPSK	50	28	23.24	23.37	23.13	24.5	0.0
20	PI/2 BPSK	50	56	22.64	22.80	22.58	24.5	0.0
20	PI/2 BPSK	100	0	22.97	22.88	22.87		
20	QPSK	1	1	23.43	23.67	23.25		
20	QPSK	1	53	23.34	23.28	23.21	24.5	0.0
20	QPSK	1	104	23.12	23.33	23.15		
20	QPSK	50	0	23.34	23.01	22.95	24.0	0.5
20	QPSK	50	28	23.38	23.44	23.31	24.5	0.0
20	QPSK	50	56	22.80	22.86	22.77	24.0	0.5
20	QPSK	100	0	23.02	23.04	23.01		
20	16QAM	1	1	23.08	23.11	23.06	24.0	0.5
20	64QAM	1	1	21.35	21.41	21.35	22.5	2.0
20	256QAM	1	1	19.74	19.78	19.68	20.5	4.0
Channel				134100				
Frequency (MHz)				673.5				
15	QPSK	1	1	22.70	22.93	22.88	24.5	0.0
Channel				133600				
Frequency (MHz)				668				
10	QPSK	1	1	22.80	22.82	22.83	24.5	0.0
Channel				133100				
Frequency (MHz)				665.5				
5	QPSK	1	1	22.83	22.84	22.69	24.5	0.0



n41 Main PA Ant1 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2552.99	2540		
100	PI2 BPSK	1	1	16.67	17.11	16.62		
100	PI2 BPSK	1	137	16.52	16.96	16.92	18.2	0.0
100	PI2 BPSK	1	271	16.50	16.99	16.76		
100	PI2 BPSK	135	0	16.78	16.77	16.73	18.2	0.0
100	PI2 BPSK	69	69	17.05	17.02	17.00	18.2	0.0
100	PI2 BPSK	135	138	16.55	16.69	16.60	18.2	0.0
100	PI2 BPSK	270	0	16.62	16.91	16.76		
100	QPSK	1	1	16.72	17.22	16.70		
100	QPSK	1	137	16.97	16.88	16.95	18.2	0.0
100	QPSK	1	271	16.85	16.62	16.86		
100	QPSK	135	0	16.83	16.80	16.82	18.2	0.0
100	QPSK	135	69	17.15	17.36	17.11	18.2	0.0
100	QPSK	135	138	16.62	16.76	16.71	18.2	0.0
100	QPSK	270	0	16.89	16.67	16.87		
100	16QAM	1	1	16.69	17.32	16.54	18.2	0.0
100	64QAM	1	1	16.68	17.30	16.59	18.2	0.0
100	256QAM	1	1	16.59	17.32	16.57	18.2	0.0
Channel								
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2552.99	2542.98		
90	QPSK	1	1	16.62	17.15	16.61	18.2	0.0
Channel								
Frequency (MHz)				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2552.99	2549.99		
80	QPSK	1	1	16.50	17.19	16.57	18.2	0.0
Channel								
Frequency (MHz)				2531.01	2552.99	2555		
70	QPSK	1	1	16.68	17.13	16.62	18.2	0.0
Channel								
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2552.99	2553.98		
60	QPSK	1	1	16.62	17.10	16.63	18.2	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2552.99	2554.99		
50	QPSK	1	1	16.62	17.11	16.63	18.2	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2552.99	2570		
40	QPSK	1	1	16.63	17.19	16.57	18.2	0.0
Channel								
Frequency (MHz)				502200	518998	533998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2552.99	2574.98		
30	QPSK	1	1	16.58	17.44	16.59	18.2	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.01	2552.99	2579.99		
20	QPSK	1	1	16.65	17.11	16.63	18.2	0.0

n41 PC2 Main PA Ant1 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2552.99	2540		
100	PI2 BPSK	1	1	19.65	20.10	19.67		
100	PI2 BPSK	1	137	19.66	19.65	19.96	21.2	0.0
100	PI2 BPSK	1	271	19.75	19.93	19.70		
100	PI2 BPSK	135	0	19.82	19.80	19.78	21.2	0.0
100	PI2 BPSK	69	69	20.09	19.97	20.04	21.2	0.0
100	PI2 BPSK	135	138	19.55	19.72	19.66	21.2	0.0
100	PI2 BPSK	270	0	19.84	19.60	19.70		
100	QPSK	1	1	19.78	20.20	19.74		
100	QPSK	1	137	20.00	20.01	19.89	21.2	0.0
100	QPSK	1	271	19.91	19.69	19.81		
100	QPSK	135	0	19.78	19.92	19.81	21.2	0.0
100	QPSK	135	69	20.09	20.18	20.06	21.2	0.0
100	QPSK	135	138	19.61	19.77	19.70	21.2	0.0
100	QPSK	270	0	19.90	19.92	19.89		
100	16QAM	1	1	19.67	20.11	19.62	21.2	0.0
100	64QAM	1	1	19.70	20.11	19.62	21.2	0.0
100	256QAM	1	1	19.62	20.06	19.59	21.2	0.0
Channel								
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2552.99	2542.98		
90	QPSK	1	1	19.68	20.09	19.61	21.2	0.0
Channel								
Frequency (MHz)				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2552.99	2549.99		
80	QPSK	1	1	19.74	20.17	19.63	21.2	0.0
Channel								
Frequency (MHz)				2531.01	2552.99	2555		
70	QPSK	1	1	19.65	20.13	19.72	21.2	0.0
Channel								
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2552.99	2553.98		
60	QPSK	1	1	19.72	20.13	19.63	21.2	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2552.99	2554.99		
50	QPSK	1	1	19.69	20.12	19.74	21.2	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2552.99	2570		
40	QPSK	1	1	19.71	20.18	19.63	21.2	0.0
Channel								
Frequency (MHz)				502200	518998	533998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2552.99	2574.98		
30	QPSK	1	1	19.67	20.13	19.71	21.2	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.01	2552.99	2579.99		
20	QPSK	1	1	19.75	20.16	19.66	21.2	0.0

n48 Part96 Main PA Ant1 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				33000	341666	345332		
Frequency (MHz)				3370	3524.99	3579.98		
40	PI2 BPSK	1	1	12.80	12.67	12.62		
40	PI2 BPSK	1	53	12.86	12.69	12.43	14.2	0.0
40	PI2 BPSK	1	104	12.92	12.68	12.47		
40	PI2 BPSK	135	0	12.47	12.49	12.50	14.2	0.0
40	PI2 BPSK	50	28	12.44	12.68	12.46	14.2	0.0
40	PI2 BPSK	50	56	12.51	12.58	12.55	14.2	0.0
40	PI2 BPSK	100	0	12.35	12.57	12.44		
40	QPSK	1	1	12.94	12.75	12.72		
40	QPSK	1	53	12.88	12.72	12.50	14.2	0.0
40	QPSK	1	104	12.84	12.73	12.61		
40	QPSK	50	0	12.53	12.59	12.62	14.2	0.0
40	QPSK	50	28	12.54	12.72	12.51	14.2	0.0
40	QPSK	50	56	12.63	12.66	12.57	14.2	0.0
40	QPSK	100	0	12.45	12.60	12.52		
40	16QAM	1	1	12.83	12.66	12.41	14.2	0.0
40	64QAM	1	1	12.59	12.54	12.39	14.2	0.0
40	256QAM	1	1	12.54	12.58	12.41	14.2	0.0
Channel								
Frequency (MHz)				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				352102	3524.99	3534.99		
30	QPSK	1	1	12.55	12.59	12.31	14.2	0.0
Channel								
Frequency (MHz)				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3550.01	3524.99	3550		
20	QPSK	1	1	12.83	12.64	12.38	14.2	0.0
Channel								
Frequency (MHz)				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3524.99	3554.98		
10	QPSK	1	1	12.63	12.57	12.34	14.2	0.0



Part270 n77 Main PA Ant1 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	11.54	11.71	11.41			
100	PI2 BPSK	1	137	11.44	11.25	11.20	12.6	0.0	
100	PI2 BPSK	1	271	11.56	11.32	11.38			
100	PI2 BPSK	135	0	11.52	11.48	11.45	12.6	0.0	
100	PI2 BPSK	135	69	11.32	11.49	11.41	12.6	0.0	
100	PI2 BPSK	135	138	11.27	11.49	11.26	12.6	0.0	
100	PI2 BPSK	270	0	11.32	11.52	11.34			
100	QPSK	1	1	11.66	11.76	11.37			
100	QPSK	1	137	11.44	11.47	11.29	12.6	0.0	
100	QPSK	1	271	11.58	11.43	11.41			
100	QPSK	135	0	11.58	11.38	11.46	12.6	0.0	
100	QPSK	135	69	11.44	11.71	11.44	12.6	0.0	
100	QPSK	135	138	11.30	11.48	11.23	12.6	0.0	
100	QPSK	270	0	11.46	11.68	11.39			
100	16QAM	1	1	11.40	11.62	11.37	12.6	0.0	
100	64QAM	1	1	11.45	11.70	11.30	12.6	0.0	
100	256QAM	1	1	11.53	11.66	11.27	12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.59	11.64	11.27	12.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.42	11.63	11.35	12.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.40	11.62	11.32	12.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.41	11.64	11.35	12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.45	11.65	11.33	12.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.40	11.67	11.33	12.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.46	11.68	11.32	12.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.44	11.69	11.36	12.6	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.44	11.69	11.30	12.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.42	11.65	11.37	12.6	0.0	

Part270 n77 PC2 Main PA Ant1 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.92	14.21	13.79			
100	PI2 BPSK	1	137	13.92	14.10	13.90	15.6	0.0	
100	PI2 BPSK	1	271	13.82	14.06	13.90			
100	PI2 BPSK	135	0	13.88	14.02	13.90	15.6	0.0	
100	PI2 BPSK	135	69	13.92	14.02	13.82	15.6	0.0	
100	PI2 BPSK	135	138	13.88	13.95	13.76	15.6	0.0	
100	PI2 BPSK	270	0	13.83	13.89	13.80			
100	QPSK	1	1	14.03	14.36	13.91			
100	QPSK	1	137	13.94	14.18	14.01	15.6	0.0	
100	QPSK	1	271	13.89	14.10	13.93			
100	QPSK	135	0	13.87	14.08	13.92	15.6	0.0	
100	QPSK	135	69	13.87	14.10	13.82	15.6	0.0	
100	QPSK	135	138	13.92	14.00	13.89	15.6	0.0	
100	QPSK	270	0	13.79	14.05	13.82			
100	16QAM	1	1	13.82	14.23	13.93	15.6	0.0	
100	64QAM	1	1	14.00	14.21	13.87	15.6	0.0	
100	256QAM	1	1	13.87	14.14	13.83	15.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.87	14.11	13.74	15.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.86	14.09	13.74	15.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.88	14.12	13.89	15.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.90	14.11	13.88	15.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.83	14.14	13.70	15.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.83	14.10	13.67	15.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.85	14.07	13.70	15.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.88	14.07	13.67	15.6	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.88	14.15	13.74	15.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.90	14.17	13.72	15.6	0.0	

Part27Q n77 Main PA Ant1 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		12.38				
100	PI2 BPSK	1	137		12.15		12.6	0.0	
100	PI2 BPSK	1	271		12.11				
100	PI2 BPSK	135	0		12.27		12.6	0.0	
100	PI2 BPSK	135	69		12.28		12.6	0.0	
100	PI2 BPSK	135	138		12.14		12.6	0.0	
100	PI2 BPSK	270	0		12.11				
100	QPSK	1	1		12.40				
100	QPSK	1	137		12.33		12.6	0.0	
100	QPSK	1	271		12.17				
100	QPSK	135	0		12.27		12.6	0.0	
100	QPSK	135	69		12.39		12.6	0.0	
100	QPSK	135	138		12.29		12.6	0.0	
100	QPSK	270	0		12.35				
100	16QAM	1	1		12.28		12.6	0.0	
100	64QAM	1	1		12.25		12.6	0.0	
100	256QAM	1	1		12.15		12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.30	12.38	12.28	12.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.21	12.34	12.22	12.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.21	12.34	12.22	12.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.26	12.28	12.25	12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.21	12.23	12.23	12.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.25	12.33	12.18	12.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.23	12.28	12.14	12.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.25	12.35	12.26	12.6	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.22	12.25	12.23	12.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.27	12.32	12.18	12.6	0.0	



Part27Q n77 PC2 Main PA Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.15	3500.01		15.6	0.0
100	PI2 BPSK	1	137	14.83	3500.01		15.6	0.0
100	PI2 BPSK	1	271	14.95	3500.01		15.6	0.0
100	PI2 BPSK	135	0	14.92	3500.01		15.6	0.0
100	PI2 BPSK	135	69	14.98	3500.01		15.6	0.0
100	PI2 BPSK	135	138	15.01	3500.01		15.6	0.0
100	PI2 BPSK	270	0	15.06	3500.01		15.6	0.0
100	QPSK	1	1	15.16	3500.01		15.6	0.0
100	QPSK	1	137	14.94	3500.01		15.6	0.0
100	QPSK	1	271	15.13	3500.01		15.6	0.0
100	QPSK	135	0	14.94	3500.01		15.6	0.0
100	QPSK	135	69	15.13	3500.01		15.6	0.0
100	QPSK	135	138	15.04	3500.01		15.6	0.0
100	QPSK	270	0	15.07	3500.01		15.6	0.0
100	16QAM	1	1	14.97	3500.01		15.6	0.0
100	64QAM	1	1	15.08	3500.01		15.6	0.0
100	256QAM	1	1	14.99	3500.01		15.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633334	633668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	3485	3500.01	3508.02	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.92	14.98	14.92	15.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	630000	633334	636668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480	3500.01	3508.02	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.00	15.05	14.92	15.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631668	633334	635000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	3475.02	3500.01	3525	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.00	15.04	14.95	15.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631334	633334	635334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	3470.01	3500.01	3530.01	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.93	14.96	14.95	15.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.92	15.04	14.98	15.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630334	633334	636334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.98	15.01	14.97	15.6	0.0

Part270 n78 Main PA Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	11.38	3750		12.6	0.0
100	PI2 BPSK	1	137	11.19	3750		12.6	0.0
100	PI2 BPSK	1	271	11.16	3750		12.6	0.0
100	PI2 BPSK	135	0	11.30	3750		12.6	0.0
100	PI2 BPSK	135	69	11.27	3750		12.6	0.0
100	PI2 BPSK	135	138	11.16	3750		12.6	0.0
100	PI2 BPSK	270	0	11.15	3750		12.6	0.0
100	QPSK	1	1	11.38	3750		12.6	0.0
100	QPSK	1	137	11.37	3750		12.6	0.0
100	QPSK	1	271	11.12	3750		12.6	0.0
100	QPSK	135	0	11.26	3750		12.6	0.0
100	QPSK	135	69	11.38	3750		12.6	0.0
100	QPSK	135	138	11.26	3750		12.6	0.0
100	QPSK	270	0	11.31	3750		12.6	0.0
100	16QAM	1	1	11.28	3750		12.6	0.0
100	64QAM	1	1	11.25	3750		12.6	0.0
100	256QAM	1	1	11.21	3750		12.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649668	650000	650334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.29	11.10	11.19	12.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	3740.01	3750	3760.02	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.20	11.25	11.19	12.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648000	650000	652000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.25	11.12	11.11	12.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3735.02	3750	3745.01	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	11.22	11.18	11.19	12.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647334	650000	652668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	3730.02	3750	3740.01	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.30	11.10	11.13	12.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647168	650000	652834	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3707.52	3750	3752.51	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	11.25	11.12	11.12	12.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	11.25	11.21	11.17	12.6	0.0

Part27Q n78 Main PA Ant1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	12.10	3500.01		12.6	0.0
100	PI2 BPSK	1	137	11.89	3500.01		12.6	0.0
100	PI2 BPSK	1	271	11.84	3500.01		12.6	0.0
100	PI2 BPSK	135	0	12.00	3500.01		12.6	0.0
100	PI2 BPSK	135	69	11.98	3500.01		12.6	0.0
100	PI2 BPSK	135	138	11.88	3500.01		12.6	0.0
100	PI2 BPSK	270	0	11.80	3500.01		12.6	0.0
100	QPSK	1	1	12.14	3500.01		12.6	0.0
100	QPSK	1	137	12.07	3500.01		12.6	0.0
100	QPSK	1	271	11.88	3500.01		12.6	0.0
100	QPSK	135	0	11.93	3500.01		12.6	0.0
100	QPSK	135	69	12.10	3500.01		12.6	0.0
100	QPSK	135	138	11.98	3500.01		12.6	0.0
100	QPSK	270	0	11.95	3500.01		12.6	0.0
100	16QAM	1	1	11.96	3500.01		12.6	0.0
100	64QAM	1	1	11.91	3500.01		12.6	0.0
100	256QAM	1	1	11.94	3500.01		12.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633334	633668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	3485	3500.01	3508.02	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.97	11.96	11.97	12.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480	3500.01	3508.02	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.98	11.93	11.93	12.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	3475.02	3500.01	3525	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.93	11.89	11.89	12.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	3470.01	3500.01	3530.01	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.00	11.93	11.93	12.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	630668	633334	636000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	3465	3500.01	3535.02	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.99	11.92	12.01	12.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630500	633334	636168	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3457.5	3500.01	3542.52	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	11.97	11.95	11.97	12.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630334	633334	636334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	11.98	11.96	11.91	12.6	0.0



n2 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1800	1880	1900		
20	PI2 BPSK	1	1	21.83	21.87	21.77		
20	PI2 BPSK	1	53	21.71	21.81	21.74	23.0	0.0
20	PI2 BPSK	1	104	21.68	21.73	21.68		
20	PI2 BPSK	50	0	21.71	21.77	21.68	23.0	0.0
20	PI2 BPSK	50	28	21.67	21.71	21.65	23.0	0.0
20	PI2 BPSK	50	56	21.76	21.78	21.74		
20	PI2 BPSK	100	0	21.64	21.72	21.64	23.0	0.0
20	QPSK	1	1	21.81	21.88	21.87		
20	QPSK	1	53	21.80	21.86	21.83	23.0	0.0
20	QPSK	1	104	21.78	21.81	21.78		
20	QPSK	50	0	21.70	21.76	21.76	23.0	0.0
20	QPSK	50	28	21.76	21.83	21.80	23.0	0.0
20	QPSK	50	56	21.59	21.68	21.64		
20	QPSK	100	0	21.73	21.78	21.67		
20	16QAM	1	1	21.77	21.86	21.80	23.0	0.0
20	64QAM	1	1	20.80	20.87	20.84	22.0	1.0
20	256QAM	1	1	18.86	18.90	18.81	20.0	3.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.77	18.90	18.97.5	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.55	18.80	19.05	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.78	21.85	21.80	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				50500	50700	51000		
40	PI2 BPSK	1	1	16.14	16.25	16.27		
40	PI2 BPSK	1	108	15.89	16.14	15.93	17.3	0.0
40	PI2 BPSK	1	214	15.97	15.95	15.82		
40	PI2 BPSK	108	0	16.12	16.27	16.02	17.3	0.0
40	PI2 BPSK	108	54	16.18	16.13	15.98	17.3	0.0
40	PI2 BPSK	108	108	16.12	16.07	15.93	17.3	0.0
40	PI2 BPSK	216	0	16.06	16.26	16.05		
40	QPSK	1	1	16.23	16.33	16.29		
40	QPSK	1	108	16.00	16.12	16.10	17.3	0.0
40	QPSK	1	214	16.03	16.10	15.93		
40	QPSK	108	0	16.15	16.28	16.15	17.3	0.0
40	QPSK	108	54	16.26	16.32	16.13	17.3	0.0
40	QPSK	108	108	16.21	16.25	16.12	17.3	0.0
40	QPSK	216	0	16.12	16.28	16.23		
40	16QAM	1	1	15.93	15.90	15.84	17.3	0.0
40	64QAM	1	1	15.82	15.90	15.88	17.3	0.0
40	256QAM	1	1	15.83	15.78	15.77	17.3	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.12	16.03	15.92	17.3	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.12	15.35	15.57.5	17.3	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	16.06	16.10	15.85	17.3	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.10	16.05	15.90	17.3	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.08	16.02	15.82	17.3	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.05	16.04	15.93	17.3	0.0

n25 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	21.87	21.95	21.87		
20	PI2 BPSK	1	53	21.85	21.88	21.81	22.4	0.0
20	PI2 BPSK	1	104	21.86	21.92	21.88		
20	PI2 BPSK	50	0	21.75	21.79	21.76	22.4	0.0
20	PI2 BPSK	50	28	21.66	21.75	21.70	22.4	0.0
20	PI2 BPSK	50	56	21.67	21.72	21.70		
20	PI2 BPSK	100	0	21.70	21.75	21.72	22.4	0.0
20	QPSK	1	1	21.77	21.96	21.67		
20	QPSK	1	53	21.67	21.77	21.71	22.4	0.0
20	QPSK	1	104	21.71	21.78	21.69		
20	QPSK	50	0	21.76	21.80	21.76	22.4	0.0
20	QPSK	50	28	21.83	21.86	21.81	22.4	0.0
20	QPSK	50	56	21.63	21.69	21.64		
20	QPSK	100	0	21.68	21.77	21.74		
20	16QAM	1	1	21.33	21.38	21.31	22.4	0.0
20	64QAM	1	1	20.44	20.49	20.46	22.0	0.4
20	256QAM	1	1	18.86	18.94	18.85	20.0	2.4
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.75	18.82	18.97.5	22.4	0.0
Channel								
Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.55	18.82	19.10	22.4	0.0
Channel								
Frequency (MHz)				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.75	21.86	21.59	22.4	0.0



n30 Main PA Ant2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
45000									
10	PI2 BPSK	1	1	21.69			23.0	0.0	
10	PI2 BPSK	1	26	21.65					
10	PI2 BPSK	1	50	21.56					
10	PI2 BPSK	25	0	20.84			22.5	0.5	
10	PI2 BPSK	25	14	21.46			23.0	0.0	
10	PI2 BPSK	25	27	21.04			22.5	0.5	
10	PI2 BPSK	50	0	21.24					
10	QPSK	1	1	21.71			23.0	0.0	
10	QPSK	1	26	21.56					
10	QPSK	1	50	21.19					
10	QPSK	25	0	21.25			22.0	1.0	
10	QPSK	25	14	21.38			23.0	0.0	
10	QPSK	25	27	20.93			22.0	1.0	
10	QPSK	50	0	20.11					
10	16QAM	1	1	20.06			22.0	1.0	
10	64QAM	1	1	19.32			20.5	2.5	
10	256QAM	1	1	17.50			18.5	4.5	
Channel									
481500									
462000									
462500									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
2307.5									
2310									
2317.5									
5	QPSK	1	1	21.64	21.62	21.65	23.0	0.0	

n66 Main PA Ant2 DSI 10									
BW [MHz]	Modulation	RB 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									
1730									
1745									
1760									
40	PI2 BPSK	1	1	16.80	16.83	16.71	18.0	0.0	
40	PI2 BPSK	1	108	16.51	16.47	16.29			
40	PI2 BPSK	1	214	16.02	16.74	16.54			
40	PI2 BPSK	108	0	16.71	16.79	16.61	18.0	0.0	
40	PI2 BPSK	108	54	16.71	16.73	16.71	18.0	0.0	
40	PI2 BPSK	108	108	16.75	16.73	16.70	18.0	0.0	
40	PI2 BPSK	216	0	16.56	16.77	16.66			
40	QPSK	1	1	16.86	16.95	16.92	18.0	0.0	
40	QPSK	1	108	16.60	16.51	16.36			
40	QPSK	1	214	16.56	16.86	16.61			
40	QPSK	108	0	16.76	16.84	16.76	18.0	0.0	
40	QPSK	108	54	16.79	16.91	16.81	18.0	0.0	
40	QPSK	108	108	16.79	16.87	16.76	18.0	0.0	
40	QPSK	216	0	16.76	16.82	16.80			
40	16QAM	1	1	16.57	16.54	16.45	18.0	0.0	
40	64QAM	1	1	16.65	16.65	16.56	18.0	0.0	
40	256QAM	1	1	16.80	16.70	16.55	18.0	0.0	
Channel									
345000									
349000									
353000									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1725									
1745									
1765									
30	QPSK	1	1	16.83	16.87	16.79	18.0	0.0	
Channel									
344000									
348000									
352000									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1720									
1745									
1770									
20	QPSK	1	1	16.65	16.70	16.77	18.0	0.0	
Channel									
343500									
347500									
351500									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1717.5									
1745									
1772.5									
15	QPSK	1	1	16.67	16.89	16.67	18.0	0.0	
Channel									
343000									
347000									
351000									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1715									
1745									
1775									
10	QPSK	1	1	16.59	16.72	16.84	18.0	0.0	
Channel									
342500									
346500									
350500									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1712.5									
1745									
1777.5									
5	QPSK	1	1	16.76	16.76	16.81	18.0	0.0	

n70 Main PA Ant2 DSI 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
345500									
1702.5									
15	PI2 BPSK	1	1		17.66		18.8	0.0	
15	PI2 BPSK	1	40		17.60				
15	PI2 BPSK	1	77		17.44				
15	PI2 BPSK	36	0		17.58		18.8	0.0	
15	PI2 BPSK	36	22		17.60		18.8	0.0	
15	PI2 BPSK	36	43		17.55		18.8	0.0	
15	PI2 BPSK	72	0		17.65				
15	QPSK	1	1		17.76		18.8	0.0	
15	QPSK	1	40		17.71				
15	QPSK	1	77		17.50				
15	QPSK	36	0		17.65		18.8	0.0	
15	QPSK	36	22		17.71		18.8	0.0	
15	QPSK	36	43		17.61		18.8	0.0	
15	QPSK	72	0		17.73				
15	16QAM	1	1		17.52		18.8	0.0	
15	64QAM	1	1		17.57		18.8	0.0	
15	256QAM	1	1		17.56		18.8	0.0	
Channel									
340000									
345500									
341000									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1700									
1702.5									
1705									
10	QPSK	1	1		17.54	17.52	17.55	18.8	0.0
Channel									
339500									
345500									
341500									
Tune-up limit (dBm)									
MPR (dB)									
Frequency (MHz)									
1697.5									
1702.5									
1707.5									
5	QPSK	1	1		17.62	17.43	17.47	18.8	0.0



n41 Main PA Ant2 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.33	17.59	17.33	19.0	0.0
100	PI2 BPSK	1	137	17.22	17.30	17.24		
100	PI2 BPSK	1	221	17.17	17.12	17.15		
100	PI2 BPSK	135	0	17.49	17.25	17.35	19.0	0.0
100	PI2 BPSK	135	69	17.25	17.56	17.24	19.0	0.0
100	PI2 BPSK	135	138	17.16	17.22	17.18	19.0	0.0
100	PI2 BPSK	270	0	17.29	17.37	17.25	19.0	0.0
100	QPSK	1	1	17.45	17.65	17.39	19.0	0.0
100	QPSK	1	137	17.25	17.39	17.36		
100	QPSK	1	271	17.23	17.19	17.17		
100	QPSK	135	0	17.56	17.30	17.41	19.0	0.0
100	QPSK	135	69	17.29	17.59	17.34	19.0	0.0
100	QPSK	135	138	17.19	17.28	17.22	19.0	0.0
100	QPSK	270	0	17.40	17.41	17.37	19.0	0.0
100	16QAM	1	1	17.35	17.45	17.18	19.0	0.0
100	64QAM	1	1	17.34	17.45	17.15	19.0	0.0
100	256QAM	1	1	17.32	17.43	17.12	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.34	17.59	17.14	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.28	17.49	17.10	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.29	17.50	17.20	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.28	17.40	17.20	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.33	17.43	17.23	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.32	17.46	17.22	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.29	17.43	17.17	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.29	17.41	17.21	19.0	0.0

n41 PC2 Main PA Ant2 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.30	20.60	20.31	22.0	0.0
100	PI2 BPSK	1	137	20.20	20.33	20.34		
100	PI2 BPSK	1	271	20.16	20.09	20.11		
100	PI2 BPSK	135	0	20.47	20.28	20.29	22.0	0.0
100	PI2 BPSK	135	69	20.20	20.54	20.21	22.0	0.0
100	PI2 BPSK	135	138	20.21	20.18	20.15	22.0	0.0
100	PI2 BPSK	270	0	20.31	20.36	20.36	22.0	0.0
100	QPSK	1	1	20.46	20.66	20.39	22.0	0.0
100	QPSK	1	137	20.30	20.42	20.39		
100	QPSK	1	271	20.28	20.20	20.15		
100	QPSK	135	0	20.51	20.30	20.42	22.0	0.0
100	QPSK	135	69	20.28	20.60	20.35	22.0	0.0
100	QPSK	135	138	20.23	20.23	20.25	22.0	0.0
100	QPSK	270	0	20.39	20.41	20.31	22.0	0.0
100	16QAM	1	1	20.36	20.43	20.16	22.0	0.0
100	64QAM	1	1	20.39	20.45	20.19	22.0	0.0
100	256QAM	1	1	20.31	20.38	20.16	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.35	20.61	20.33	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.33	20.54	20.33	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.38	20.60	20.28	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.39	20.55	20.29	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.43	20.64	20.32	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.38	20.59	20.27	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.36	20.62	20.34	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.44	20.62	20.26	22.0	0.0

n48 Part96 Main PA Ant2 DSI 10

BW [MHz]	Modulation	RB 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	18.35	18.38	18.35	19.4	0.0
40	PI2 BPSK	1	53	18.27	18.24	18.15		
40	PI2 BPSK	1	104	18.23	18.25	18.19		
40	PI2 BPSK	50	0	18.22	18.25	18.12	19.4	0.0
40	PI2 BPSK	50	28	18.05	18.29	18.22	19.4	0.0
40	PI2 BPSK	50	56	18.24	18.18	18.15	19.4	0.0
40	PI2 BPSK	100	0	18.05	18.31	18.23	19.4	0.0
40	QPSK	1	1	18.43	18.47	18.38	19.4	0.0
40	QPSK	1	53	18.34	18.38	18.22		
40	QPSK	1	104	18.26	18.38	18.28		
40	QPSK	50	0	18.28	18.27	18.25	19.4	0.0
40	QPSK	50	28	18.19	18.35	18.27	19.4	0.0
40	QPSK	50	56	18.30	18.25	18.28	19.4	0.0
40	QPSK	100	0	18.12	18.33	18.28	19.4	0.0
40	16QAM	1	1	18.24	18.34	18.26	19.4	0.0
40	64QAM	1	1	18.33	18.25	18.25	19.4	0.0
40	256QAM	1	1	18.30	18.28	18.22	19.4	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.31	18.33	18.26	19.4	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.24	18.24	18.24	19.4	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.24	18.26	18.25	19.4	0.0



Part270 n77 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	3750	3840	3930		
100	PV2 BPSK	1	137	19.25	19.26	19.96	20.2	0.0
100	PV2 BPSK	1	137	18.53	19.12	18.93		
100	PV2 BPSK	1	271	18.73	19.11	18.93		
100	PV2 BPSK	135	0	18.92	19.05	18.88	20.2	0.0
100	PV2 BPSK	135	69	18.90	19.03	19.84	20.2	0.0
100	PV2 BPSK	135	138	18.85	19.12	18.88	20.2	0.0
100	PV2 BPSK	270	0	18.84	18.98	18.89		
100	QPSK	1	1	19.32	19.38	19.19		
100	QPSK	1	137	19.04	19.27	18.99	20.2	0.0
100	QPSK	1	271	18.85	19.18	18.93		
100	QPSK	135	0	19.02	19.16	19.95	20.2	0.0
100	QPSK	135	69	18.93	19.20	19.95	20.2	0.0
100	QPSK	135	138	18.88	19.18	18.86	20.2	0.0
100	QPSK	270	0	18.87	19.02	18.93		
100	16QAM	1	1	19.08	19.12	19.94	20.2	0.0
100	64QAM	1	1	19.21	19.16	19.92	20.2	0.0
100	256QAM	1	1	17.73	17.87	17.76	18.5	1.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.19	19.20	19.92	20.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.77	19.12	19.96	20.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.22	19.20	19.99	20.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.20	19.20	19.91	20.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.21	19.15	19.90	20.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.18	19.21	19.98	20.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.17	19.19	19.92	20.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.12	19.16	19.92	20.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.15	19.17	19.94	20.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.17	19.20	19.92	20.2	0.0

Part270 n77 PC2 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	22.15	22.18	21.95		
100	PV2 BPSK	1	137	21.80	22.08	21.80	23.2	0.0
100	PV2 BPSK	1	271	21.85	22.03	21.78		
100	PV2 BPSK	135	0	21.82	21.98	21.72	23.2	0.0
100	PV2 BPSK	135	69	21.77	21.99	21.99	23.2	0.0
100	PV2 BPSK	135	138	21.76	22.07	21.82	23.2	0.0
100	PV2 BPSK	270	0	21.74	21.88	21.79		
100	QPSK	1	1	22.16	22.20	22.15		
100	QPSK	1	137	21.86	22.14	21.90	23.2	0.0
100	QPSK	1	271	21.72	22.13	21.87		
100	QPSK	135	0	21.96	22.05	21.88	23.2	0.0
100	QPSK	135	69	21.83	22.14	21.92	23.2	0.0
100	QPSK	135	138	21.76	22.09	21.82	23.2	0.0
100	QPSK	270	0	21.74	21.88	21.85		
100	16QAM	1	1	21.94	22.02	21.87	23.2	0.0
100	64QAM	1	1	22.11	22.02	21.92	23.2	0.0
100	256QAM	1	1	20.58	20.78	20.71	21.5	1.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.09	22.08	21.93	23.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.03	22.11	21.82	23.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.06	22.06	21.92	23.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.08	22.09	21.81	23.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.08	22.15	21.87	23.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.06	22.15	21.90	23.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.02	22.10	21.83	23.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.04	22.05	21.85	23.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.02	22.11	21.85	23.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.04	22.13	21.90	23.2	0.0

Part27Q n77 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1			3500.01		
100	PV2 BPSK	1	137	19.45			20.2	0.0
100	PV2 BPSK	1	137	18.29				
100	PV2 BPSK	1	271	19.27				
100	PV2 BPSK	135	0	19.24			20.2	0.0
100	PV2 BPSK	135	69	19.20			20.2	0.0
100	PV2 BPSK	135	138	19.33			20.2	0.0
100	PV2 BPSK	270	0	19.14				
100	QPSK	1	1	19.58				
100	QPSK	1	137	19.50			20.2	0.0
100	QPSK	1	271	19.34				
100	QPSK	135	0	19.38			20.2	0.0
100	QPSK	135	69	19.44			20.2	0.0
100	QPSK	135	138	19.37			20.2	0.0
100	QPSK	270	0	19.24				
100	16QAM	1	1	19.30			20.2	0.0
100	64QAM	1	1	19.42			20.2	0.0
100	256QAM	1	1	17.87			18.5	1.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.40	19.35	19.28	20.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.43	19.35	19.25	20.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.45	19.35	19.28	20.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.46	19.32	19.17	20.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.40	19.31	19.18	20.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.46	19.42	19.27	20.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.44	19.39	19.23	20.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.47	19.40	19.17	20.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.46	19.38	19.10	20.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.42	19.35	19.28	20.2	0.0



Part27Q n77 PC2 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.48	3500.01	3500.01	23.2	0.0
100	PI2 BPSK	1	137	22.29	3500.01	3500.01		
100	PI2 BPSK	1	271	22.29	3500.01	3500.01	23.2	0.0
100	PI2 BPSK	135	0	22.29	3500.01	3500.01		
100	PI2 BPSK	135	69	22.14	3500.01	3500.01	23.2	0.0
100	PI2 BPSK	135	138	22.35	3500.01	3500.01		
100	PI2 BPSK	270	0	22.17	3500.01	3500.01	23.2	0.0
100	PI2 BPSK	270	137	22.53	3500.01	3500.01		
100	QPSK	1	137	22.49	3500.01	3500.01	23.2	0.0
100	QPSK	1	271	22.37	3500.01	3500.01		
100	QPSK	135	0	22.38	3500.01	3500.01	23.2	0.0
100	QPSK	135	69	22.48	3500.01	3500.01		
100	QPSK	135	138	22.41	3500.01	3500.01	23.2	0.0
100	QPSK	270	0	22.20	3500.01	3500.01		
100	16QAM	1	1	22.34	3500.01	3500.01	23.2	0.0
100	16QAM	1	137	22.43	3500.01	3500.01		
100	64QAM	1	1	22.43	3500.01	3500.01	23.2	0.0
100	256QAM	1	1	21.13	3500.01	3500.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.42	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.37	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.37	3500.01	3515.01	23.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.33	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.33	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.33	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.25	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.30	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.31	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.32	3500.01	3500.01	23.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.40	3500.01	3545.01	23.2	0.0
Channel								
Frequency (MHz)								

Part270 n78 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.82	3750	3750	20.2	0.0
100	PI2 BPSK	1	137	18.82	3750	3750		
100	PI2 BPSK	1	271	18.79	3750	3750	20.2	0.0
100	PI2 BPSK	135	0	18.76	3750	3750		
100	PI2 BPSK	135	69	18.68	3750	3750	20.2	0.0
100	PI2 BPSK	135	138	18.86	3750	3750		
100	PI2 BPSK	270	0	19.03	3750	3750	20.2	0.0
100	QPSK	1	137	19.01	3750	3750		
100	QPSK	1	271	18.85	3750	3750	20.2	0.0
100	QPSK	135	0	18.89	3750	3750		
100	QPSK	135	69	18.91	3750	3750	20.2	0.0
100	QPSK	135	138	18.85	3750	3750		
100	QPSK	270	0	18.76	3750	3750	20.2	0.0
100	16QAM	1	1	18.82	3750	3750		
100	64QAM	1	1	18.87	3750	3750	20.2	0.0
100	256QAM	1	1	17.38	3750	3750		
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.85	3750	3750	20.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.72	3750	3750	20.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.80	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.74	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.74	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.73	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.78	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.79	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.78	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.71	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.80	3750	3785	20.2	0.0
Channel								
Frequency (MHz)								

Part27Q n78 Main PA Ant2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.26	3500.01	3500.01	20.2	0.0
100	PI2 BPSK	1	137	19.15	3500.01	3500.01		
100	PI2 BPSK	1	271	19.13	3500.01	3500.01	20.2	0.0
100	PI2 BPSK	135	0	19.03	3500.01	3500.01		
100	PI2 BPSK	135	69	19.00	3500.01	3500.01	20.2	0.0
100	PI2 BPSK	135	138	19.09	3500.01	3500.01		
100	PI2 BPSK	270	0	19.08	3500.01	3500.01	20.2	0.0
100	QPSK	1	137	19.35	3500.01	3500.01		
100	QPSK	1	271	19.31	3500.01	3500.01	20.2	0.0
100	QPSK	1	137	19.14	3500.01	3500.01		
100	QPSK	135	0	19.15	3500.01	3500.01	20.2	0.0
100	QPSK	135	69	19.21	3500.01	3500.01		
100	QPSK	135	138	19.14	3500.01	3500.01	20.2	0.0
100	QPSK	270	0	19.06	3500.01	3500.01		
100	16QAM	1	1	19.08	3500.01	3500.01	20.2	0.0
100	64QAM	1	1	19.27	3500.01	3500.01		
100	256QAM	1	1	18.01	3500.01	3500.01	18.5	1.7
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	19.13	3500.01	3500.01	19.21	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	19.06	3500.01	3515.01	19.19	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	19.03	3500.01	3515.01	19.21	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	19.03	3500.01	3500.01	19.12	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	19.03	3500.01	3500.01	19.12	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	19.05	3500.01	3500.01	19.20	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	19.10	3500.01	3500.01	19.20	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	19.01	3500.01	3500.01	19.17	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.08	3500.01	3500.01	19.17	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	19.04	3500.01	3500.01	19.21	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	19.06	3500.01	3545.01	19.19	0.0
Channel								
Frequency (MHz)								



n2 Main PA Ant3 DSI 10

BW (MHz)	Modulation	RB 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	17.37	17.39	17.35	19.3	0.0
20	PI2 BPSK	1	53	17.36	17.39	17.40		
20	PI2 BPSK	1	104	17.34	17.36	17.33		
20	PI2 BPSK	50	0	17.33	17.31	17.35	19.3	0.0
20	PI2 BPSK	50	28	17.38	17.39	17.31	19.3	0.0
20	PI2 BPSK	50	56	17.38	17.35	17.31	19.3	0.0
20	PI2 BPSK	100	0	17.36	17.39	17.35	19.3	0.0
20	QPSK	1	1	17.38	17.41	17.35	19.3	0.0
20	QPSK	1	53	17.36	17.33	17.38		
20	QPSK	1	104	17.35	17.33	17.34		
20	QPSK	50	0	17.37	17.38	17.34	19.3	0.0
20	QPSK	50	28	17.37	17.39	17.34	19.3	0.0
20	QPSK	50	56	17.34	17.36	17.35	19.3	0.0
20	QPSK	100	0	17.33	17.37	17.35	19.3	0.0
20	16QAM	1	1	17.31	17.32	17.32	19.3	0.0
20	64QAM	1	1	17.34	17.33	17.37	19.3	0.0
20	256QAM	1	1	17.32	17.32	17.31	19.3	0.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	1857.5	1860	1862.5	19.3	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	1855	1860	1905	19.3	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.36	17.33	17.34	19.3	0.0

n7 Main PA Ant3 DSI 10

BW (MHz)	Modulation	RB 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	17.27	17.30	17.32	18.4	0.0
40	PI2 BPSK	1	108	16.83	17.01	17.01		
40	PI2 BPSK	1	214	16.89	16.84	16.95		
40	PI2 BPSK	108	0	16.89	17.00	16.91	18.4	0.0
40	PI2 BPSK	108	54	17.07	17.10	16.95	18.4	0.0
40	PI2 BPSK	108	108	16.79	16.84	16.97	18.4	0.0
40	PI2 BPSK	216	0	16.95	17.00	16.88	18.4	0.0
40	QPSK	1	1	17.27	17.40	17.38	18.4	0.0
40	QPSK	1	108	16.89	17.05	16.96		
40	QPSK	1	214	16.96	17.07	16.90		
40	QPSK	108	0	17.02	17.14	17.04	18.4	0.0
40	QPSK	108	54	17.14	17.18	16.96	18.4	0.0
40	QPSK	108	108	17.02	17.04	16.92	18.4	0.0
40	QPSK	216	0	16.91	17.12	16.89	18.4	0.0
40	16QAM	1	1	16.81	16.80	16.79	18.4	0.0
40	64QAM	1	1	16.76	16.95	16.89	18.4	0.0
40	256QAM	1	1	16.83	16.97	16.83	18.4	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	2516	2535	2555	18.4	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	17.43	17.20	17.50	18.4	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	17.48	17.31	17.31	18.4	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.14	17.34	17.30	18.4	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.45	17.27	17.32	18.4	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.21	17.31	17.33	18.4	0.0

n25 Main PA Ant3 DSI 10

BW (MHz)	Modulation	RB 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	1882.5	1905		
20	PI2 BPSK	1	1	17.35	17.33	17.38	19.3	0.0
20	PI2 BPSK	1	53	17.33	17.36	17.37		
20	PI2 BPSK	1	104	17.34	17.33	17.39		
20	PI2 BPSK	50	0	17.31	17.34	17.38	19.3	0.0
20	PI2 BPSK	50	28	17.35	17.37	17.39	19.3	0.0
20	PI2 BPSK	50	56	17.31	17.35	17.32	19.3	0.0
20	PI2 BPSK	100	0	17.36	17.33	17.31	19.3	0.0
20	QPSK	1	1	17.35	17.42	17.33	19.3	0.0
20	QPSK	1	53	17.38	17.32	17.38		
20	QPSK	1	104	17.35	17.35	17.35		
20	QPSK	50	0	17.37	17.34	17.31	19.3	0.0
20	QPSK	50	28	17.34	17.38	17.32	19.3	0.0
20	QPSK	50	56	17.33	17.32	17.32	19.3	0.0
20	QPSK	100	0	17.32	17.38	17.35	19.3	0.0
20	16QAM	1	1	17.26	17.32	17.32	19.3	0.0
20	64QAM	1	1	17.32	17.39	17.38	19.3	0.0
20	256QAM	1	1	17.32	17.33	17.32	19.3	0.0
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	1857.5	1862.5	1897.5	19.3	0.0
Channel								
Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	1854	1862.5	1910	19.3	0.0
Channel								
Frequency (MHz)				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	17.33	17.33	17.35	19.3	0.0



n30 Main PA Ant3 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				45000			2310	
10	PI2 BPSK	1	1		20.80		21.7	0.0
10	PI2 BPSK	1	26		20.37			
10	PI2 BPSK	1	50		20.05		21.7	0.0
10	PI2 BPSK	25	0		20.28			
10	PI2 BPSK	25	14		20.47		21.7	0.0
10	PI2 BPSK	25	27		20.21			
10	PI2 BPSK	50	0		20.32		21.7	0.0
10	QPSK	1	1		20.80			
10	QPSK	1	26		20.43		21.7	0.0
10	QPSK	1	50		20.14			
10	QPSK	25	0		20.37		21.7	0.0
10	QPSK	25	14		20.53			
10	QPSK	25	27		20.27		21.7	0.0
10	QPSK	50	0		20.39			
10	16QAM	1	1		20.06		21.7	0.0
10	64QAM	1	1		19.75			
10	256QAM	1	1		19.23		19.5	2.2
10	256QAM	1	1		18.23			
Channel				481500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	21.7	0.0
5	QPSK	1	1	20.03	20.02	20.02	21.7	0.0

n66 Main PA Ant3 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				34000			1730	
40	PI2 BPSK	1	1	17.09	17.94	18.92	18.0	0.0
40	PI2 BPSK	1	108	16.76	16.87	16.86		
40	PI2 BPSK	1	214	16.50	16.98	16.86	18.0	0.0
40	PI2 BPSK	108	0	16.80	16.79	16.65		
40	PI2 BPSK	108	54	16.81	17.01	16.85	18.0	0.0
40	PI2 BPSK	108	108	16.79	16.91	16.86		
40	PI2 BPSK	216	0	16.72	16.97	16.83	18.0	0.0
40	QPSK	1	1	17.07	17.16	16.98		
40	QPSK	1	108	16.90	16.99	17.01	18.0	0.0
40	QPSK	1	214	17.00	17.15	16.97		
40	QPSK	108	0	16.81	16.78	16.65	18.0	0.0
40	QPSK	108	54	16.89	17.06	16.81		
40	QPSK	108	108	16.82	16.93	16.95	18.0	0.0
40	QPSK	216	0	16.87	17.03	16.83		
40	16QAM	1	1	16.86	16.95	16.77	18.0	0.0
40	64QAM	1	1	16.87	16.89	16.70		
40	256QAM	1	1	16.86	16.92	16.81	18.0	0.0
40	256QAM	1	1	16.86	16.92	16.81		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	18.0	0.0
30	QPSK	1	1	16.94	16.95	16.97	18.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	18.0	0.0
20	QPSK	1	1	16.81	16.96	16.92	18.0	0.0
Channel				345000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	18.0	0.0
15	QPSK	1	1	16.79	16.87	16.87	18.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	18.0	0.0
10	QPSK	1	1	16.80	16.91	16.97	18.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	18.0	0.0
5	QPSK	1	1	16.78	16.92	16.89	18.0	0.0

n70 Main PA Ant3 DSI 10

BW [MHz]	Modulation	RB 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			1702.5	
15	PI2 BPSK	1	1		17.31		18.6	0.0
15	PI2 BPSK	1	40		17.29			
15	PI2 BPSK	1	77		16.93		18.6	0.0
15	PI2 BPSK	36	0		17.03			
15	PI2 BPSK	36	22		17.10		18.6	0.0
15	PI2 BPSK	36	43		16.97			
15	PI2 BPSK	72	0		17.04		18.6	0.0
15	QPSK	1	1		17.35			
15	QPSK	1	40		17.18		18.6	0.0
15	QPSK	1	77		16.99			
15	QPSK	36	0		17.10		18.6	0.0
15	QPSK	36	22		17.20			
15	QPSK	36	43		17.08		18.6	0.0
15	QPSK	75	0		17.11			
15	16QAM	1	1		16.94		18.6	0.0
15	64QAM	1	1		17.02			
15	256QAM	1	1		17.01		18.6	0.0
15	256QAM	1	1		17.01			
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705	18.6	0.0
10	QPSK	1	1	16.98	17.01	16.96	18.6	0.0
Channel				339500	345000	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5	18.6	0.0
5	QPSK	1	1	16.92	16.91	16.90	18.6	0.0



n41 Main PA Ant3 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.64	18.79	18.40	19.9	0.0
100	PI2 BPSK	1	137	18.44	18.60	18.50		
100	PI2 BPSK	1	271	18.08	18.17	18.13		
100	PI2 BPSK	135	0	18.51	18.05	18.40	19.9	0.0
100	PI2 BPSK	135	69	18.74	18.70	18.63	19.9	0.0
100	PI2 BPSK	135	138	18.29	18.35	18.16	19.9	0.0
100	PI2 BPSK	270	0	18.50	18.56	18.42		
100	QPSK	1	1	18.68	18.92	18.51		
100	QPSK	1	137	18.57	18.64	18.56	19.9	0.0
100	QPSK	1	271	18.18	18.29	18.23		
100	QPSK	135	0	18.56	18.70	18.51	19.9	0.0
100	QPSK	135	69	18.79	18.80	18.73	19.9	0.0
100	QPSK	135	138	18.40	18.38	18.29	19.9	0.0
100	QPSK	270	0	18.54	18.62	18.52		
100	8QAM	1	1	18.51	18.68	18.31	19.9	0.0
100	64QAM	1	1	18.61	18.71	18.27	19.9	0.0
100	256QAM	1	1	18.62	18.73	18.32	19.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.60	18.68	18.33	19.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.50	18.69	18.38	19.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.59	18.77	18.30	19.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.57	18.71	18.31	19.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.52	18.71	18.30	19.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.51	18.75	18.38	19.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.52	18.70	18.31	19.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.54	18.70	18.27	19.9	0.0

n41 PC2 Main PA Ant3 DSI 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.59	21.73	21.44		
100	PI2 BPSK	1	137	21.45	21.62	21.53	22.9	0.0
100	PI2 BPSK	1	271	21.08	21.23	21.08		
100	PI2 BPSK	135	0	21.52	21.65	21.38	22.9	0.0
100	PI2 BPSK	135	69	21.76	21.72	21.67	22.9	0.0
100	PI2 BPSK	135	138	21.28	21.39	21.12	22.9	0.0
100	PI2 BPSK	270	0	21.44	21.51	21.47		
100	QPSK	1	1	21.67	21.92	21.45		
100	QPSK	1	137	21.56	21.61	21.61	22.9	0.0
100	QPSK	1	271	21.22	21.26	21.18		
100	QPSK	135	0	21.57	21.69	21.45	22.9	0.0
100	QPSK	135	69	21.75	21.81	21.69	22.9	0.0
100	QPSK	135	138	21.36	21.40	21.31	22.9	0.0
100	QPSK	270	0	21.58	21.59	21.47		
100	16QAM	1	1	21.45	21.68	21.31	22.9	0.0
100	64QAM	1	1	21.55	21.70	21.22	22.9	0.0
100	256QAM	1	1	21.66	21.74	21.32	22.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.53	21.83	21.41	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.56	21.80	21.41	22.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.60	21.87	21.41	22.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.57	21.82	21.34	22.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.60	21.79	21.38	22.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.55	21.88	21.33	22.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.64	21.81	21.37	22.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.53	21.79	21.41	22.9	0.0

n48 Part96 Main PA Ant3 DSI 10

BW [MHz]	Modulation	RB 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	10.84	10.83	10.66		
40	PI2 BPSK	1	53	10.70	10.73	10.68	12.6	0.0
40	PI2 BPSK	1	104	10.65	10.71	10.64		
40	PI2 BPSK	50	0	10.74	10.71	10.77	12.6	0.0
40	PI2 BPSK	50	28	10.86	10.81	10.64	12.6	0.0
40	PI2 BPSK	50	56	10.88	10.73	10.67	12.6	0.0
40	PI2 BPSK	100	0	10.72	10.71	10.68		
40	QPSK	1	1	10.75	10.85	10.71		
40	QPSK	1	53	10.72	10.82	10.67	12.6	0.0
40	QPSK	1	104	10.70	10.76	10.68		
40	QPSK	50	0	10.82	10.81	10.80	12.6	0.0
40	QPSK	50	28	10.71	10.84	10.64	12.6	0.0
40	QPSK	50	56	10.79	10.79	10.71	12.6	0.0
40	QPSK	100	0	10.81	10.83	10.83		
40	16QAM	1	1	10.82	10.86	10.85	12.6	0.0
40	64QAM	1	1	10.88	10.75	10.68	12.6	0.0
40	256QAM	1	1	10.85	10.76	10.63	12.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	10.82	10.77	10.67	12.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	10.81	10.77	10.68	12.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	10.82	10.76	10.64	12.6	0.0



Part270 n77 Main PA Ant3 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	11.40	11.55	11.48			
100	PI2 BPSK	1	137	11.32	11.34	11.30	12.6	0.0	
100	PI2 BPSK	1	271	11.23	11.45	11.26			
100	PI2 BPSK	135	0	11.33	11.46	11.26	12.6	0.0	
100	PI2 BPSK	135	69	11.14	11.37	11.21	12.6	0.0	
100	PI2 BPSK	135	138	11.13	11.43	11.21	12.6	0.0	
100	PI2 BPSK	270	0	11.27	11.22	11.33			
100	QPSK	1	1	11.45	11.69	11.50			
100	QPSK	1	137	11.38	11.48	11.37	12.6	0.0	
100	QPSK	1	271	11.27	11.53	11.37			
100	QPSK	135	0	11.42	11.49	11.31	12.6	0.0	
100	QPSK	135	69	11.20	11.50	11.35	12.6	0.0	
100	QPSK	135	138	11.23	11.47	11.30	12.6	0.0	
100	QPSK	270	0	11.37	11.39	11.37			
100	16QAM	1	1	11.29	11.51	11.45	12.6	0.0	
100	64QAM	1	1	11.30	11.47	11.35	12.6	0.0	
100	256QAM	1	1	11.27	11.42	11.36	12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.34	11.52	11.39	12.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.20	11.48	11.40	12.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.37	11.45	11.39	12.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.28	11.52	11.45	12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.34	11.44	11.38	12.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.28	11.43	11.42	12.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.27	11.45	11.45	12.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.27	11.42	11.41	12.6	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.31	11.49	11.38	12.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.32	11.52	11.45	12.6	0.0	

Part270 n77 PC2 Main PA Ant3 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.54	14.78	14.67			
100	PI2 BPSK	1	137	14.46	14.49	14.46	15.6	0.0	
100	PI2 BPSK	1	271	14.22	14.71	14.42			
100	PI2 BPSK	135	0	14.50	14.68	14.50	15.6	0.0	
100	PI2 BPSK	135	69	14.38	14.58	14.39	15.6	0.0	
100	PI2 BPSK	135	138	14.32	14.68	14.43	15.6	0.0	
100	PI2 BPSK	270	0	14.44	14.54	14.49			
100	QPSK	1	1	14.62	14.92	14.64			
100	QPSK	1	137	14.59	14.63	14.63	15.6	0.0	
100	QPSK	1	271	14.45	14.88	14.52			
100	QPSK	135	0	14.60	14.70	14.52	15.6	0.0	
100	QPSK	135	69	14.44	14.73	14.49	15.6	0.0	
100	QPSK	135	138	14.41	14.65	14.52	15.6	0.0	
100	QPSK	270	0	14.61	14.62	14.60			
100	16QAM	1	1	14.45	14.69	14.70	15.6	0.0	
100	64QAM	1	1	14.55	14.67	14.53	15.6	0.0	
100	256QAM	1	1	14.50	14.67	14.57	15.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.47	14.71	14.64	15.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.40	14.64	14.58	15.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.47	14.64	14.55	15.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.51	14.67	14.63	15.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.42	14.71	14.63	15.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.41	14.67	14.58	15.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.45	14.68	14.58	15.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.43	14.78	14.55	15.6	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.45	14.68	14.58	15.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.49	14.75	14.54	15.6	0.0	

Part27Q n77									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		11.97				
100	PI2 BPSK	1	137		11.69		12.6	0.0	
100	PI2 BPSK	1	271		11.88				
100	PI2 BPSK	135	0		11.81		12.6	0.0	
100	PI2 BPSK	135	69		11.78		12.6	0.0	
100	PI2 BPSK	135	138		11.83		12.6	0.0	
100	PI2 BPSK	270	0		11.70				
100	QPSK	1	1		12.13				
100	QPSK	1	137		11.84		12.6	0.0	
100	QPSK	1	271		11.98				
100	QPSK	135	0		11.83		12.6	0.0	
100	QPSK	135	69		11.93		12.6	0.0	
100	QPSK	135	138		11.86		12.6	0.0	
100	QPSK	270	0		11.79				
100	16QAM	1	1		11.88		12.6	0.0	
100	64QAM	1	1		11.88		12.6	0.0	
100	256QAM	1	1		11.86		12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.85	11.90	11.93	12.6	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.81	11.70	11.81	12.6	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.73	11.88	11.81	12.6	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.76	11.76	11.81	12.6	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.75	11.81	11.80	12.6	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.73	11.75	11.69	12.6	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.74	11.81	11.81	12.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.80	11.88	11.80	12.6	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.72	11.80	11.85	12.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.74	11.84	11.80	12.6	0.0	



Part27Q n77 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63334				
3500.01				3500.01				
100	PI2 BPSK	1	1	14.75	14.75	14.75	15.6	0.0
100	PI2 BPSK	1	137	14.46	14.46	14.46	15.6	0.0
100	PI2 BPSK	1	271	14.75	14.75	14.75	15.6	0.0
100	PI2 BPSK	135	0	14.81	14.81	14.81	15.6	0.0
100	PI2 BPSK	135	69	14.63	14.63	14.63	15.6	0.0
100	PI2 BPSK	135	138	14.62	14.62	14.62	15.6	0.0
100	PI2 BPSK	270	0	14.54	14.54	14.54	15.6	0.0
100	QPSK	1	1	14.91	14.91	14.91	15.6	0.0
100	QPSK	1	137	14.66	14.66	14.66	15.6	0.0
100	QPSK	1	271	14.68	14.68	14.68	15.6	0.0
100	QPSK	135	0	14.88	14.88	14.88	15.6	0.0
100	QPSK	135	69	14.75	14.75	14.75	15.6	0.0
100	QPSK	135	138	14.65	14.65	14.65	15.6	0.0
100	QPSK	270	0	14.58	14.58	14.58	15.6	0.0
100	16QAM	1	1	14.84	14.84	14.84	15.6	0.0
100	64QAM	1	1	14.69	14.69	14.69	15.6	0.0
100	256QAM	1	1	14.68	14.68	14.68	15.6	0.0
Channel								
Frequency (MHz)				63300	63334	63368	Tune-up limit (dB)	MPR
3485				3500.01	3500.02	3500.02	(dBm)	(dB)
90	QPSK	1	1	14.62	14.64	14.63	15.6	0.0
Channel								
Frequency (MHz)				63968	63334	63400	Tune-up limit (dBm)	MPR
3490.02				3500.01	3510	3510	(dBm)	(dB)
80	QPSK	1	1	14.53	14.60	14.53	15.6	0.0
Channel								
Frequency (MHz)				63934	63334	63534	Tune-up limit (dBm)	MPR
3485.01				3500.01	3516.01	3516.01	(dBm)	(dB)
70	QPSK	1	1	14.58	14.58	14.58	15.6	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR
3480				3500.01	3500.02	3500.02	(dBm)	(dB)
60	QPSK	1	1	14.56	14.52	14.49	15.6	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR
3475.02				3500.01	3505	3505	(dBm)	(dB)
50	QPSK	1	1	14.53	14.53	14.53	15.6	0.0
Channel								
Frequency (MHz)				63134	63334	63334	Tune-up limit (dBm)	MPR
3470.01				3500.01	3530.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	14.51	14.55	14.59	15.6	0.0
Channel								
Frequency (MHz)				63100	63334	63668	Tune-up limit (dBm)	MPR
3465				3500.01	3535.02	3535.02	(dBm)	(dB)
30	QPSK	1	1	14.55	14.56	14.49	15.6	0.0
Channel								
Frequency (MHz)				63068	63334	63600	Tune-up limit (dBm)	MPR
3460.69				3500.01	3540	3540	(dBm)	(dB)
20	QPSK	1	1	14.49	14.58	14.50	15.6	0.0
Channel								
Frequency (MHz)				63050	63334	63618	Tune-up limit (dBm)	MPR
3457.5				3500.01	3542.52	3542.52	(dBm)	(dB)
15	QPSK	1	1	14.59	14.51	14.67	15.6	0.0
Channel								
Frequency (MHz)				63034	63334	63634	Tune-up limit (dBm)	MPR
3455.01				3500.01	3545.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	14.56	14.54	14.49	15.6	0.0

Part27Q n78

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	10.96	10.96	10.96	12.6	0.0
100	PI2 BPSK	1	137	10.69	10.69	10.69	12.6	0.0
100	PI2 BPSK	1	271	10.84	10.84	10.84	12.6	0.0
100	PI2 BPSK	135	0	10.87	10.87	10.87	12.6	0.0
100	PI2 BPSK	135	69	10.82	10.82	10.82	12.6	0.0
100	PI2 BPSK	135	138	10.88	10.88	10.88	12.6	0.0
100	PI2 BPSK	270	0	10.70	10.70	10.70	12.6	0.0
100	QPSK	1	1	11.11	11.11	11.11	12.6	0.0
100	QPSK	1	137	10.80	10.80	10.80	12.6	0.0
100	QPSK	1	271	11.03	11.03	11.03	12.6	0.0
100	QPSK	135	0	10.81	10.81	10.81	12.6	0.0
100	QPSK	135	69	10.91	10.91	10.91	12.6	0.0
100	QPSK	135	138	10.89	10.89	10.89	12.6	0.0
100	QPSK	270	0	10.73	10.73	10.73	12.6	0.0
100	16QAM	1	1	10.87	10.87	10.87	12.6	0.0
100	64QAM	1	1	10.92	10.92	10.92	12.6	0.0
100	256QAM	1	1	10.81	10.81	10.81	12.6	0.0
Channel								
Frequency (MHz)				64968	65000	65034	Tune-up limit (dB)	MPR
3745.62				3750	3753.01	3753.01	(dBm)	(dB)
90	QPSK	1	1	10.86	10.86	10.94	12.6	0.0
Channel								
Frequency (MHz)				64934	65000	65068	Tune-up limit (dBm)	MPR
3740.01				3750	3760.02	3760.02	(dBm)	(dB)
80	QPSK	1	1	10.82	10.78	10.31	12.6	0.0
Channel								
Frequency (MHz)				64900	65000	65100	Tune-up limit (dBm)	MPR
3735				3750	3765	3765	(dBm)	(dB)
70	QPSK	1	1	10.74	10.77	10.82	12.6	0.0
Channel								
Frequency (MHz)				64868	65000	65134	Tune-up limit (dBm)	MPR
3730.02				3750	3770.01	3770.01	(dBm)	(dB)
60	QPSK	1	1	10.83	10.80	10.72	12.6	0.0
Channel								
Frequency (MHz)				64834	65000	65168	Tune-up limit (dBm)	MPR
3725.01				3750	3775.02	3775.02	(dBm)	(dB)
50	QPSK	1	1	10.73	10.80	10.72	12.6	0.0
Channel								
Frequency (MHz)				64800	65000	65200	Tune-up limit (dBm)	MPR
3720				3750	3780	3780	(dBm)	(dB)
40	QPSK	1	1	10.79	10.77	10.74	12.6	0.0
Channel								
Frequency (MHz)				64768	65000	65234	Tune-up limit (dBm)	MPR
3715.02				3750	3785.01	3785.01	(dBm)	(dB)
30	QPSK	1	1	10.80	10.77	10.79	12.6	0.0
Channel								
Frequency (MHz)				64734	65000	65268	Tune-up limit (dBm)	MPR
3710.01				3750	3790.02	3790.02	(dBm)	(dB)
20	QPSK	1	1	10.79	10.74	10.81	12.6	0.0
Channel								
Frequency (MHz)				64718	65000	65284	Tune-up limit (dBm)	MPR
3707.52				3750	3792.51	3792.51	(dBm)	(dB)
15	QPSK	1	1	10.83	10.78	10.72	12.6	0.0
Channel								
Frequency (MHz)				64700	65000	65300	Tune-up limit (dBm)	MPR
3705				3750	3795	3795	(dBm)	(dB)
10	QPSK	1	1	10.75	10.81	10.80	12.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	12.18	12.18	12.18	12.6	0.0
100	PI2 BPSK	1	137	11.79	11.79	11.79	12.6	0.0
100	PI2 BPSK	1	271	12.00	12.00	12.00	12.6	0.0
100	PI2 BPSK	135	0	11.95	11.95	11.95	12.6	0.0
100	PI2 BPSK	135	69	11.99	11.99	11.99	12.6	0.0
100	PI2 BPSK	135	138	11.96	11.96	11.96	12.6	0.0
100	PI2 BPSK	270	0	11.88	11.88	11.88	12.6	0.0
100	QPSK	1	1	12.24	12.24	12.24	12.6	0.0
100	QPSK	1	137	11.95	11.95	11.95	12.6	0.0
100	QPSK	1	271	12.18	12.18	12.18	12.6	0.0
100	QPSK	135	0	12.03	12.03	12.03	12.6	0.0
100	QPSK	135	69	12.09	12.09	12.09	12.6	0.0
100	QPSK	135	138	11.96	11.96	11.96	12.6	0.0
100	QPSK	270	0	11.91	11.91	11.91	12.6	0.0
100	16QAM	1	1	12.07	12.07	12.07	12.6	0.0
100	64QAM	1	1	11.97	11.97	11.97	12.6	0.0
100	256QAM	1	1	12.03	12.03	12.03	12.6	0.0
Channel								
Frequency (MHz)				63300	63334	63368	Tune-up limit (dB)	MPR
3485				3500.01	3505.02	3505.02	(dBm)	(dB)
90	QPSK	1	1	12.09	12.04	12.11	12.6	0.0
Channel								
Frequency (MHz)				63968	63334	63400	Tune-up limit (dBm)	MPR
3490.02				3500.01	3510	3510	(dBm)	(dB)
80	QPSK	1	1	12.03	12.00	11.98	12.6	0.0
Channel								
Frequency (MHz)				63934	63334	63534	Tune-up limit (dBm)	MPR
3485.01				3500.01	3516.01	3516.01	(dBm)	(dB)
70	QPSK	1	1	12.04	11.92	12.02	12.6	0.0
Channel								
Frequency (MHz)				63200	63334	63468	Tune-up limit (dBm)	MPR
3480				3500.01	3500.02	3500.02	(dBm)	(dB)
60	QPSK	1	1	11.99	11.99	12.05	12.6	0.0
Channel								
Frequency (MHz)				63168	63334	63500	Tune-up limit (dBm)	MPR
3475.02				3500.01	3505	3505	(dBm)	(dB)
50	QPSK	1	1	12.02	12.02	12.03	12.6	0.0
Channel								
Frequency (MHz)				63134	63334	63334	Tune-up limit (dBm)	MPR
3470.01				3500.01	3530.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	12.00	11.93	12.03	12.6	0.0
Channel								
Frequency (MHz)				63100	63334	63668	Tune-up limit (dBm)	MPR
3465				3500.01	3535.02	3535.02	(dBm)	(dB)
30	QPSK	1	1	11.99	11.98	11.97		



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	15.39	15.67	15.34		
40	PI2 BPSK	1	53	15.39	15.60	15.36	17.3	0.0
40	PI2 BPSK	1	104	15.36	15.52	15.32		
40	PI2 BPSK	50	0	15.53	15.67	15.56	17.3	0.0
40	PI2 BPSK	50	28	15.31	15.71	15.34	17.3	0.0
40	PI2 BPSK	50	56	15.36	15.67	15.44	17.3	0.0
40	PI2 BPSK	100	0	15.32	15.58	15.45		
40	QPSK	1	1	15.33	15.75	15.48		
40	QPSK	1	53	15.38	15.64	15.40	17.3	0.0
40	QPSK	1	104	15.38	15.59	15.41		
40	QPSK	50	0	15.66	15.66	15.66	17.3	0.0
40	QPSK	50	28	15.31	15.74	15.47	17.3	0.0
40	QPSK	50	56	15.36	15.71	15.52	17.3	0.0
40	QPSK	100	0	15.32	15.66	15.54		
40	16QAM	1	1	15.38	15.58	15.41	17.3	0.0
40	64QAM	1	1	15.37	15.53	15.43	17.3	0.0
40	256QAM	1	1	15.37	15.53	15.35	17.3	0.0
Channel								
Frequency (MHz)				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655.02	3624.99	3684.98	(dBm)	(dB)
30	QPSK	1	1	15.31	15.47	15.36	17.3	0.0
Channel								
Frequency (MHz)				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	15.31	15.54	15.33	17.3	0.0
Channel								
Frequency (MHz)				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3684.98	(dBm)	(dB)
10	QPSK	1	1	15.38	15.56	15.32	17.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	13.34	13.38	12.91		
100	PI2 BPSK	1	137	13.21	13.24	12.90	14.5	0.0
100	PI2 BPSK	1	271	13.23	13.30	12.96		
100	PI2 BPSK	135	0	13.20	13.28	13.13	14.5	0.0
100	PI2 BPSK	135	69	13.27	13.34	12.93	14.5	0.0
100	PI2 BPSK	135	138	13.14	13.29	12.94	14.5	0.0
100	PI2 BPSK	270	0	13.27	13.31	12.97		
100	QPSK	1	1	13.36	13.49	13.03		
100	QPSK	1	137	13.29	13.37	12.99	14.5	0.0
100	QPSK	1	271	13.32	13.38	12.98		
100	QPSK	135	0	13.26	13.37	13.22	14.5	0.0
100	QPSK	135	69	13.36	13.41	12.98	14.5	0.0
100	QPSK	135	138	13.25	13.38	13.04	14.5	0.0
100	QPSK	270	0	13.36	13.38	12.90		
100	16QAM	1	1	13.27	13.28	12.79	14.5	0.0
100	64QAM	1	1	13.27	13.35	12.85	14.5	0.0
100	256QAM	1	1	13.23	13.26	12.87	14.5	0.0
Channel								
Frequency (MHz)				646968	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
50	QPSK	1	1	13.23	13.35	12.92	14.5	0.0
Channel								
Frequency (MHz)				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	13.30	13.31	12.77	14.5	0.0
Channel								
Frequency (MHz)				646000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	13.32	13.28	12.88	14.5	0.0
Channel								
Frequency (MHz)				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	13.23	13.33	12.81	14.5	0.0
Channel								
Frequency (MHz)				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	13.23	13.32	12.68	14.5	0.0
Channel								
Frequency (MHz)				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	13.24	13.35	12.98	14.5	0.0
Channel								
Frequency (MHz)				645668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	13.24	13.27	12.77	14.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	13.28	13.33	12.80	14.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	13.27	13.28	12.59	14.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	13.26	13.36	12.81	14.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.40	16.38	15.92		
100	PI2 BPSK	1	137	16.24	16.21	15.86	17.5	0.0
100	PI2 BPSK	1	271	16.20	16.29	15.85		
100	PI2 BPSK	135	0	16.20	16.30	16.18	17.5	0.0
100	PI2 BPSK	135	69	16.27	16.39	15.97	17.5	0.0
100	PI2 BPSK	135	138	16.15	16.32	15.88	17.5	0.0
100	PI2 BPSK	270	0	16.27	16.28	15.93		
100	QPSK	1	1	16.31	16.47	16.03		
100	QPSK	1	137	16.26	16.42	15.95	17.5	0.0
100	QPSK	1	271	16.33	16.35	15.99		
100	QPSK	135	0	16.24	16.37	16.27	17.5	0.0
100	QPSK	135	69	16.35	16.43	16.02	17.5	0.0
100	QPSK	135	138	16.23	16.36	16.10	17.5	0.0
100	QPSK	270	0	16.34	16.38	15.88		
100	16QAM	1	1	16.22	16.28	15.84	17.5	0.0
100	64QAM	1	1	16.21	16.38	15.91	17.5	0.0
100	256QAM	1	1	16.26	16.30	15.88	17.5	0.0
Channel								
Frequency (MHz)				646968	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
50	QPSK	1	1	16.27	16.32	15.83	17.5	0.0
Channel								
Frequency (MHz)				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	16.29	16.32	15.81	17.5	0.0
Channel								
Frequency (MHz)				646000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
70	QPSK	1	1	16.30	16.28	15.85	17.5	0.0
Channel								
Frequency (MHz)				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3955.01	(dBm)	(dB)
60	QPSK	1	1	16.34	16.33	15.84	17.5	0.0
Channel								
Frequency (MHz)				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	16.34	16.25	15.87	17.5	0.0
Channel								
Frequency (MHz)				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	16.34	16.22	15.88	17.5	0.0
Channel								
Frequency (MHz)				645668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	16.30	16.32	15.82	17.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	16.34	16.31	15.79	17.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	16.34	16.33	15.87	17.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	16.37	16.27	15.83	17.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		13.33		14.5	0.0
100	PI2 BPSK	1	137		13.12			
100	PI2 BPSK	1	271		13.24			
100	PI2 BPSK	135	0		13.23		14.5	0.0
100	PI2 BPSK	135	69		13.29		14.5	0.0
100	PI2 BPSK	135	138		13.28		14.5	0.0
100	PI2 BPSK	270	0		13.22		14.5	0.0
100	QPSK	1	1		13.45		14.5	0.0
100	QPSK	1	137		13.33			
100	QPSK	1	271		13.36			
100	QPSK	135	0		13.29		14.5	0.0
100	QPSK	135	69		13.34		14.5	0.0
100	QPSK	135	138		13.28		14.5	0.0
100	QPSK	270	0		13.28		14.5	0.0
100	16QAM	1	1		13.17		14.5	0.0
100	64QAM	1	1		13.30		14.5	0.0
100	256QAM	1	1		13.16		14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3755.01		
				13.23	13.30	13.20	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3760.02		
				13.10	13.18	13.18	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
				13.19	13.22	13.18	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3770.01		
				13.18	13.26	13.17	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3775.02		
				13.14	13.22	13.14	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780		
				13.18	13.27	13.17	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3785.01		
				13.17	13.16	13.14	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3790.02		
				13.12	13.22	13.12	14.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
				13.15	13.16	13.07	14.5	0.0

Part27Q n78 Main PA Ant5 DSI 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		13.23		14.5	0.0
100	PI2 BPSK	1	137		13.08			
100	PI2 BPSK	1	271		13.16			
100	PI2 BPSK	135	0		13.15		14.5	0.0
100	PI2 BPSK	135	69		13.21		14.5	0.0
100	PI2 BPSK	135	138		13.16		14.5	0.0
100	PI2 BPSK	270	0		13.17		14.5	0.0
100	QPSK	1	1		13.37		14.5	0.0
100	QPSK	1	137		13.28			
100	QPSK	1	271		13.30			
100	QPSK	135	0		13.17		14.5	0.0
100	QPSK	135	69		13.31		14.5	0.0
100	QPSK	135	138		13.19		14.5	0.0
100	QPSK	270	0		13.21		14.5	0.0
100	16QAM	1	1		13.16		14.5	0.0
100	64QAM	1	1		13.27		14.5	0.0
100	256QAM	1	1		13.11		14.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
				3485	3500.01	3505.02		
				13.20	13.14	13.20	14.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3480.02	3500.01	3510		
				13.18	13.07	13.15	14.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634668	Tune-up limit (dBm)	MPR (dB)
				3485.01	3500.01	3515.01		
				13.13	13.10	13.11	14.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3480	3500.01	3505.02		
				13.16	13.06	13.10	14.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3505		
				13.09	13.09	13.13	14.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3500.01		
				13.18	13.03	13.18	14.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
				3465	3500.01	3505.02		
				13.16	13.00	13.16	14.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
				3460.02	3500.01	3510		
				13.08	13.06	13.16	14.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3512.52		
				13.11	13.00	13.16	14.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
				3455.01	3500.01	3515.01		
				13.14	13.08	13.15	14.5	0.0



Full&Default Power Mode for Main PA

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	1880	1900		
20	PI2 BPSK	1	1	21.91	21.98	21.88	23.0	0.0
20	PI2 BPSK	1	53	21.91	21.95	21.90	23.0	0.0
20	PI2 BPSK	1	104	21.80	21.70	21.83	23.0	0.0
20	PI2 BPSK	50	0	21.81	21.88	21.82	23.0	0.0
20	PI2 BPSK	50	28	21.83	21.85	21.81	23.0	0.0
20	PI2 BPSK	50	56	21.77	21.80	21.71	23.0	0.0
20	PI2 BPSK	100	0	21.59	21.68	21.62	23.0	0.0
20	QPSK	1	1	21.89	22.01	21.81	23.0	0.0
20	QPSK	1	53	21.90	21.92	21.83	23.0	0.0
20	QPSK	1	104	21.74	21.81	21.75	23.0	0.0
20	QPSK	50	0	21.83	21.91	21.87	23.0	0.0
20	QPSK	50	28	21.91	21.86	21.88	23.0	0.0
20	QPSK	50	56	21.39	21.48	21.44	23.0	0.0
20	QPSK	100	0	21.55	21.58	21.55	23.0	0.0
20	16QAM	1	1	21.41	21.44	21.38	23.0	0.0
20	64QAM	1	1	20.04	20.06	19.99	21.5	1.5
20	256QAM	1	1	18.73	18.76	18.72	19.5	3.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.80	21.94	21.71	23.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.83	21.91	21.73	23.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.86	21.93	21.74	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	23.05	23.11	23.02	24.0	0.0
20	PI2 BPSK	1	53	22.99	23.03	23.00	24.0	0.0
20	PI2 BPSK	1	104	23.00	23.04	22.95	24.0	0.0
20	PI2 BPSK	50	0	23.01	23.08	23.04	24.0	0.0
20	PI2 BPSK	50	28	23.01	23.07	23.02	24.0	0.0
20	PI2 BPSK	50	56	22.95	23.05	22.97	24.0	0.0
20	PI2 BPSK	100	0	22.99	23.04	22.99	24.0	0.0
20	QPSK	1	1	23.01	23.36	23.11	24.0	0.0
20	QPSK	1	53	23.00	23.05	22.95	24.0	0.0
20	QPSK	1	104	22.89	22.98	22.95	24.0	0.0
20	QPSK	50	0	23.03	23.12	23.03	24.0	0.0
20	QPSK	50	28	23.19	23.24	23.21	24.0	0.0
20	QPSK	50	56	23.02	23.10	23.00	24.0	0.0
20	QPSK	100	0	23.10	23.18	23.14	24.0	0.0
20	16QAM	1	1	23.20	23.23	23.21	24.0	0.0
20	64QAM	1	1	21.48	21.55	21.49	22.5	1.5
20	256QAM	1	1	20.10	20.15	20.08	20.5	3.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.99	22.98	23.08	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.96	22.91	23.03	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.96	22.95	23.02	24.0	0.0

n7 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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.74	22.77	22.68	24.0	0.0
40	PI2 BPSK	1	109	22.66	22.68	22.60	24.0	0.0
40	PI2 BPSK	1	214	22.66	22.74	22.71	24.0	0.0
40	PI2 BPSK	108	0	22.59	22.61	22.52	24.0	0.0
40	PI2 BPSK	108	54	22.53	22.59	22.51	24.0	0.0
40	PI2 BPSK	108	108	22.68	22.72	22.64	24.0	0.0
40	PI2 BPSK	216	0	22.59	22.65	22.60	24.0	0.0
40	QPSK	1	1	22.67	22.82	22.71	24.0	0.0
40	QPSK	1	108	22.71	22.75	22.71	24.0	0.0
40	QPSK	1	214	22.67	22.77	22.73	24.0	0.0
40	QPSK	108	0	22.49	22.58	22.51	24.0	0.0
40	QPSK	108	54	22.56	22.69	22.66	24.0	0.0
40	QPSK	108	108	22.58	22.60	22.57	24.0	0.0
40	QPSK	216	0	22.60	22.65	22.58	24.0	0.0
40	16QAM	1	1	22.63	22.72	22.66	24.0	0.0
40	64QAM	1	1	21.16	21.24	21.18	22.5	1.5
40	256QAM	1	1	18.59	18.67	18.62	20.5	3.5
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.59	22.76	22.68	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.61	22.73	22.73	24.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	22.51	22.73	22.70	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.64	22.78	22.74	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.58	22.77	22.71	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.59	22.79	22.70	24.0	0.0



n12 Main PA Ant0

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				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.32	23.35	23.28	24.0	0.0
15	PI2 BPSK	1	40	23.15	23.23	23.18		
15	PI2 BPSK	1	77	23.08	23.17	23.15		
15	PI2 BPSK	36	0	23.15	23.23	23.15	24.0	0.0
15	PI2 BPSK	36	22	23.11	23.18	23.14	24.0	0.0
15	PI2 BPSK	36	43	23.09	23.13	23.10	24.0	0.0
15	PI2 BPSK	75	0	23.19	23.26	23.15	24.0	0.0
15	QPSK	1	1	23.27	23.37	23.29		
15	QPSK	1	40	23.14	23.22	23.18	24.0	0.0
15	QPSK	1	77	23.05	23.13	23.07		
15	QPSK	36	0	23.16	23.26	23.20	24.0	0.0
15	QPSK	36	22	23.23	23.32	23.25	24.0	0.0
15	QPSK	36	43	23.08	23.13	23.10		
15	QPSK	75	0	23.14	23.24	23.21	24.0	0.0
15	16QAM	1	1	23.11	23.17	23.08	24.0	0.0
15	84QAM	1	1	22.00	22.02	21.95	22.5	1.5
15	256QAM	1	1	20.40	20.46	20.40	20.5	3.5
Channel				142800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.25	23.34	23.26	24.0	0.0
Channel				140200	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.25	23.30	23.23	24.0	0.0

n14 Main PA Ant0

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				158600	158600			
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.32	23.38		24.0	0.0
10	PI2 BPSK	1	26	23.32	23.38			
10	PI2 BPSK	1	50	23.34	23.34			
10	PI2 BPSK	25	0	23.33	23.33		24.0	0.0
10	PI2 BPSK	25	14	23.34	23.34		24.0	0.0
10	PI2 BPSK	25	27	23.36	23.36		24.0	0.0
10	PI2 BPSK	50	0	23.27	23.27		24.0	0.0
10	QPSK	1	1	23.51	23.51			
10	QPSK	1	26	23.28	23.28		24.0	0.0
10	QPSK	1	50	23.18	23.18			
10	QPSK	25	0	23.27	23.27		24.0	0.0
10	QPSK	25	14	23.40	23.40		24.0	0.0
10	QPSK	25	27	23.30	23.30			
10	QPSK	50	0	23.36	23.36		24.0	0.0
10	16QAM	1	1	23.46	23.46		24.0	0.0
10	84QAM	1	1	22.50	22.50		23.0	1.0
10	256QAM	1	1	20.97	20.97		21.0	3.0
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	23.44	23.44	23.42	24.0	0.0

n25 Main PA Ant0

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				372900	376500	381000		
Frequency (MHz)				1860	1862.5	1905		
20	PI2 BPSK	1	1	21.92	22.02	21.97	23.0	0.0
20	PI2 BPSK	1	53	21.88	21.92	21.83		
20	PI2 BPSK	1	104	21.89	21.94	21.84		
20	PI2 BPSK	50	0	21.88	21.97	21.90	23.0	0.0
20	PI2 BPSK	50	28	21.87	21.94	21.87	23.0	0.0
20	PI2 BPSK	50	58	21.84	21.90	21.88		
20	PI2 BPSK	100	0	21.88	21.97	21.88	23.0	0.0
20	QPSK	1	1	21.93	22.06	21.78		
20	QPSK	1	53	21.91	21.97	21.94	23.0	0.0
20	QPSK	1	104	21.87	21.96	21.92		
20	QPSK	50	0	21.89	21.92	21.84	23.0	0.0
20	QPSK	50	28	21.91	21.97	21.88	23.0	0.0
20	QPSK	50	58	21.77	21.81	21.74		
20	QPSK	100	0	21.81	21.88	21.81	23.0	0.0
20	16QAM	1	1	21.96	22.04	22.01	23.0	0.0
20	84QAM	1	1	20.65	20.67	20.62	21.5	1.5
20	256QAM	1	1	18.98	19.02	18.97	19.5	3.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1862.5	1907.5		
15	QPSK	1	1	21.89	21.96	21.74	23.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1862.5	1910		
10	QPSK	1	1	21.89	21.97	21.68	23.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1862.5	1912.5		
5	QPSK	1	1	21.88	21.99	21.67	23.0	0.0



n26 Main 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				164800	166300	167800		
Frequency (MHz)				624	631.5	639		
20	PI2 BPSK	1	1	23.16	23.34	23.18	24.0	0.0
20	PI2 BPSK	1	53	23.01	23.20	23.01		
20	PI2 BPSK	1	104	23.07	23.23	23.05		
20	PI2 BPSK	50	0	23.08	23.27	23.09	24.0	0.0
20	PI2 BPSK	50	28	23.00	23.19	23.02		
20	PI2 BPSK	50	56	23.01	23.21	23.05	24.0	0.0
20	PI2 BPSK	100	0	23.14	23.28	23.08		
20	QPSK	1	1	23.09	23.39	23.15		
20	QPSK	1	53	23.01	23.16	23.05	24.0	0.0
20	QPSK	1	104	23.01	23.18	23.03		
20	QPSK	50	0	23.05	23.23	23.03	24.0	0.0
20	QPSK	50	28	23.09	23.39	23.07	24.0	0.0
20	QPSK	50	56	23.00	23.20	23.01		
20	QPSK	100	0	23.11	23.27	23.12	24.0	0.0
20	16QAM	1	1	23.14	23.35	23.18	24.0	0.0
20	64QAM	1	1	21.53	21.71	21.50	22.5	1.5
20	256QAM	1	1	20.09	20.26	20.09	20.5	3.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				621.5	631.5	641.5		
15	QPSK	1	1	23.01	23.17	23.06	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				616	631.5	644		
10	QPSK	1	1	23.03	23.16	23.10	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				616.5	631.5	646.5		
5	QPSK	1	1	23.07	23.19	23.07	24.0	0.0

n30 Main 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				461600	463000	464000		
Frequency (MHz)				2307.5	2310	2312.5		
10	PI2 BPSK	1	1	21.15	21.15	21.15	22.0	0.0
10	PI2 BPSK	1	26	21.09	21.09	21.09		
10	PI2 BPSK	1	50	21.14	21.14	21.14		
10	PI2 BPSK	25	0	19.82	19.82	19.82	21.5	0.5
10	PI2 BPSK	25	14	20.82	20.82	20.82	22.0	0.0
10	PI2 BPSK	25	27	20.24	20.24	20.24	21.5	0.5
10	PI2 BPSK	50	0	20.81	20.81	20.81		
10	QPSK	1	1	21.17	21.17	21.17		
10	QPSK	1	26	21.12	21.12	21.12	22.0	0.0
10	QPSK	1	50	20.54	20.54	20.54		
10	QPSK	25	0	20.85	20.85	20.85	21.0	1.0
10	QPSK	25	14	20.92	20.92	20.92	22.0	0.0
10	QPSK	25	27	20.34	20.34	20.34		
10	QPSK	50	0	20.13	20.13	20.13	21.0	1.0
10	16QAM	1	1	19.93	19.93	19.93	21.0	1.0
10	64QAM	1	1	18.47	18.47	18.47	19.5	2.5
10	256QAM	1	1	17.22	17.22	17.22	17.5	4.5
Channel				461600	463000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	21.14	21.14	21.12	22.0	0.0

n66 Main 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.58	22.48	21.99	23.0	0.0
40	PI2 BPSK	1	108	21.58	22.43	21.98		
40	PI2 BPSK	1	214	21.63	22.51	22.02		
40	PI2 BPSK	108	0	21.16	22.04	21.49	22.5	0.5
40	PI2 BPSK	108	54	21.64	22.43	21.97	23.0	0.0
40	PI2 BPSK	108	108	21.20	21.99	21.55	22.5	0.5
40	PI2 BPSK	216	0	21.12	21.99	21.53		
40	QPSK	1	1	21.67	22.53	22.05		
40	QPSK	1	108	21.82	22.46	22.01	23.0	0.0
40	QPSK	1	214	21.63	22.43	21.99		
40	QPSK	108	0	20.62	21.58	21.07	22.0	1.0
40	QPSK	108	54	21.54	22.43	21.93	23.0	0.0
40	QPSK	108	108	20.59	21.40	21.04		
40	QPSK	216	0	20.55	21.37	20.91	22.0	1.0
40	16QAM	1	1	20.57	21.36	20.97	22.0	1.0
40	64QAM	1	1	19.19	19.99	19.59	20.5	2.5
40	256QAM	1	1	17.19	18.04	17.50	18.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.63	22.40	21.96	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.61	22.42	21.92	23.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.65	22.49	21.91	23.0	0.0
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.53	22.47	21.97	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1772.5		
5	QPSK	1	1	21.63	22.45	21.88	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				340000	340500			
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1	21.87			23.0	0.0
15	PI/2 BPSK	1	40	21.84				
15	PI/2 BPSK	1	77	21.89				
15	PI/2 BPSK	36	0	21.85			23.0	0.0
15	PI/2 BPSK	36	22	21.74			23.0	0.0
15	PI/2 BPSK	36	43	21.76				
15	PI/2 BPSK	75	0	21.77			23.0	0.0
15	QPSK	1	1	21.91				
15	QPSK	1	40	21.84			23.0	0.0
15	QPSK	1	77	21.89				
15	QPSK	36	0	21.75			23.0	0.0
15	QPSK	36	22	21.81			23.0	0.0
15	QPSK	36	43	21.71				
15	QPSK	75	0	21.77			23.0	0.0
15	16QAM	1	1	21.77			23.0	0.0
15	64QAM	1	1	20.15			21.5	1.5
15	256QAM	1	1	18.53			19.5	3.5
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	21.88	21.85	21.86	23.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	21.88	21.83	21.89	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.37	23.41	23.34		
20	PI/2 BPSK	1	53	23.32	23.27	23.36	24.0	0.0
20	PI/2 BPSK	1	104	23.19	23.27	23.18		
20	PI/2 BPSK	50	0	22.99	23.07	23.05	23.5	0.5
20	PI/2 BPSK	50	28	23.35	23.43	23.39	24.0	0.0
20	PI/2 BPSK	50	56	22.91	22.94	22.87		
20	PI/2 BPSK	100	0	23.07	23.11	23.02	23.5	0.5
20	QPSK	1	1	23.51	23.62	23.41		
20	QPSK	1	53	23.47	23.50	23.42	24.0	0.0
20	QPSK	1	104	23.32	23.35	23.25		
20	QPSK	50	0	22.95	22.62	22.57	23.0	1.0
20	QPSK	50	28	23.50	23.58	23.52	24.0	0.0
20	QPSK	50	56	22.42	22.49	22.41		
20	QPSK	100	0	22.50	22.54	22.46	23.0	1.0
20	16QAM	1	1	22.83	22.66	22.61	23.0	1.0
20	64QAM	1	1	20.79	20.86	20.80	21.5	2.5
20	256QAM	1	1	19.24	19.29	19.25	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.47	23.60	23.35	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.41	23.57	23.37	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.43	23.59	23.33	24.0	0.0



n41 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				509202	518998	529200		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.93	22.96	22.94		
100	PI2 BPSK	1	137	22.56	22.65	22.58	24.0	0.0
100	PI2 BPSK	1	271	22.35	22.43	22.38		
100	PI2 BPSK	135	0	22.73	22.77	22.72	24.0	0.0
100	PI2 BPSK	135	69	22.59	22.62	22.52	24.0	0.0
100	PI2 BPSK	135	138	22.45	22.47	22.38	24.0	0.0
100	PI2 BPSK	270	0	22.53	22.61	22.53		
100	QPSK	1	1	22.90	23.01	22.98		
100	QPSK	1	137	22.85	22.88	22.88	24.0	0.0
100	QPSK	1	271	22.89	22.72	22.89		
100	QPSK	135	0	22.73	22.78	22.72	24.0	0.0
100	QPSK	135	69	22.79	22.83	22.77	24.0	0.0
100	QPSK	135	138	22.60	22.62	22.56	24.0	0.0
100	QPSK	270	0	22.66	22.68	22.61		
100	16QAM	1	1	22.55	22.60	22.55	24.0	0.0
100	16QAM	1	1	22.47	22.55	22.50	24.0	0.0
100	256QAM	1	1	22.24	22.33	22.23	22.5	1.5
Channel				509200	518998	529198	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.84	22.91	22.90	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.82	22.85	22.90	24.0	0.0
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2665		
70	QPSK	1	1	22.81	22.98	22.95	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2659.99		
60	QPSK	1	1	22.82	22.99	22.93	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.84	22.77	22.92	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.83	22.96	22.94	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.99		
30	QPSK	1	1	22.85	22.91	22.92	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.81	22.98	22.96	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518998	529998		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.78	25.81	25.76		
100	PI2 BPSK	1	137	25.72	25.77	25.70	27.0	0.0
100	PI2 BPSK	1	271	25.61	25.65	25.57		
100	PI2 BPSK	135	0	25.70	25.74	25.70	28.5	0.5
100	PI2 BPSK	135	69	25.56	25.65	25.62	27.0	0.0
100	PI2 BPSK	135	138	25.65	25.71	25.68	28.5	0.5
100	PI2 BPSK	270	0	25.69	25.73	25.65		
100	QPSK	1	1	25.84	26.02	25.71		
100	QPSK	1	137	25.89	25.98	25.95	27.0	0.0
100	QPSK	1	271	25.83	25.91	25.83		
100	QPSK	135	0	25.57	25.45	25.58	28.0	1.0
100	QPSK	135	69	25.38	25.65	25.38	27.0	0.0
100	QPSK	135	138	25.46	25.48	25.39		
100	QPSK	270	0	25.51	25.57	25.50	28.0	1.0
100	16QAM	1	1	25.56	25.61	25.55	28.0	1.0
100	16QAM	1	1	23.70	23.77	23.71	24.5	2.5
100	256QAM	1	1	22.34	22.38	22.34	22.5	4.5
Channel				509200	518998	529998		MPR
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.54	25.96	25.62	27.0	0.0
Channel				507204	518998	529998		MPR
Frequency (MHz)				2536.02	2592.99	2643.99		
80	QPSK	1	1	25.57	25.94	25.66	27.0	0.0
Channel				506202	518998	531000		MPR
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	25.57	25.93	25.62	27.0	0.0
Channel				505200	518998	531998		MPR
Frequency (MHz)				2529	2592.99	2659.98		
60	QPSK	1	1	25.58	25.94	25.68	27.0	0.0
Channel				504204	518998	532998		MPR
Frequency (MHz)				2621.02	2592.99	2664.99		
50	QPSK	1	1	25.62	26.00	25.68	27.0	0.0
Channel				503202	518998	534000		MPR
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	25.59	25.97	25.65	27.0	0.0
Channel				502200	518998	534998		MPR
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.54	25.95	25.66	27.0	0.0
Channel				501204	518998	535998		MPR
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.61	25.93	25.61	27.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.53	21.56	21.47		
20	PI2 BPSK	1	53	21.34	21.42	21.36	23.0	0.0
20	PI2 BPSK	1	104	21.19	21.23	21.15		
20	PI2 BPSK	50	0	23.41	23.45	23.41	23.0	0.0
20	PI2 BPSK	50	28	21.43	21.49	21.45	23.0	0.0
20	PI2 BPSK	50	56	21.08	21.11	21.05	23.0	0.0
20	PI2 BPSK	100	0	21.26	21.29	21.23		
20	QPSK	1	1	21.57	21.64	21.23	23.0	0.0
20	QPSK	1	53	23.26	23.29	23.27		
20	QPSK	1	104	21.07	21.15	21.08		
20	QPSK	50	0	21.07	21.12	21.05	23.0	0.0
20	QPSK	50	28	21.29	21.31	21.22	23.0	0.0
20	QPSK	50	56	21.15	21.16	21.15	23.0	0.0
20	QPSK	100	0	23.22	23.23	23.17		
20	16QAM	1	1	20.18	20.27	20.25	22.0	1.0
20	64QAM	1	1	19.13	19.18	19.09	21.0	2.0
20	256QAM	1	1	18.86	18.72	18.63	20.0	3.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	21.52	21.61	21.14	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	21.51	21.55	21.15	23.0	0.0
Channel								
Frequency (MHz)				376000	376000	381500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	21.55	21.55	21.20	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16800	16900	16700		
20	PI2 BPSK	1	1	23.29	23.32	23.25		
20	PI2 BPSK	1	53	23.05	23.08	23.00	24.0	0.0
20	PI2 BPSK	1	104	23.16	23.22	23.19		
20	PI2 BPSK	50	0	23.17	23.23	23.20	24.0	0.0
20	PI2 BPSK	50	28	23.22	23.25	23.18	24.0	0.0
20	PI2 BPSK	50	56	23.26	23.28	23.25	24.0	0.0
20	PI2 BPSK	100	0	23.21	23.29	23.25		
20	QPSK	1	1	23.11	23.39	23.08	24.0	0.0
20	QPSK	1	53	23.14	23.16	23.12		
20	QPSK	1	104	23.10	23.17	23.08		
20	QPSK	50	0	23.19	23.23	23.14	24.0	0.0
20	QPSK	50	28	23.29	23.34	23.28	24.0	0.0
20	QPSK	50	56	23.12	23.22	23.16	24.0	0.0
20	QPSK	100	0	23.26	23.31	23.27		
20	16QAM	1	1	23.23	23.32	23.26	24.0	0.0
20	64QAM	1	1	21.77	21.85	21.79	23.0	1.0
20	256QAM	1	1	20.02	20.11	20.07	21.0	3.0
Channel								
Frequency (MHz)				168000	167000	168000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	23.03	23.30	23.04	24.0	0.0
Channel								
Frequency (MHz)				168000	167000	168000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	23.04	23.32	23.01	24.0	0.0
Channel								
Frequency (MHz)				168000	167000	169000	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	23.03	23.31	23.03	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2500	2535	2550		
40	PI2 BPSK	1	1	21.01	22.37	22.14		
40	PI2 BPSK	1	108	21.03	22.33	22.03	23.0	0.0
40	PI2 BPSK	1	214	21.02	22.41	22.04		
40	PI2 BPSK	108	0	20.95	22.40	22.17	22.5	0.5
40	PI2 BPSK	108	54	21.03	22.28	22.10	23.0	0.0
40	PI2 BPSK	108	108	20.89	22.42	22.09	22.5	0.5
40	PI2 BPSK	216	0	20.84	22.39	22.00		
40	QPSK	1	1	21.06	22.46	22.26	23.0	0.0
40	QPSK	1	108	21.03	22.38	22.12		
40	QPSK	1	214	21.02	22.43	22.11		
40	QPSK	108	0	20.03	21.51	21.17	22.0	1.0
40	QPSK	108	54	21.06	22.39	22.10	23.0	0.0
40	QPSK	108	108	20.04	21.47	21.17	22.0	1.0
40	QPSK	216	0	20.05	21.42	21.20		
40	16QAM	1	1	20.05	21.48	21.25	22.0	1.0
40	64QAM	1	1	19.52	19.94	19.73	20.5	2.5
40	256QAM	1	1	18.54	17.88	17.66	18.5	4.5
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	21.03	22.44	22.13	23.0	0.0
Channel								
Frequency (MHz)				502000	507000	511500	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	21.05	22.42	22.05	23.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
20	PI2 BPSK	1	1	21.03	22.40	22.15	23.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	20.07	20.35	20.25	23.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	21.04	22.40	22.17	23.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	21.03	22.38	22.17	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.37	23.43	23.37		
15	PI2 BPSK	1	40	23.26	23.31	23.28	24.0	0.0
15	PI2 BPSK	1	77	23.14	23.21	23.16		
15	PI2 BPSK	36	0	23.32	23.41	23.37	24.0	0.0
15	PI2 BPSK	36	22	23.28	23.34	23.28	24.0	0.0
15	PI2 BPSK	36	43	23.20	23.26	23.21	24.0	0.0
15	PI2 BPSK	75	0	23.29	23.39	23.30		
15	QPSK	1	1	23.32	23.30	23.38		
15	QPSK	1	40	23.34	23.44	23.38	24.0	0.0
15	QPSK	1	77	23.32	23.36	23.32		
15	QPSK	36	0	23.28	23.33	23.25	24.0	0.0
15	QPSK	36	22	23.31	23.41	23.38	24.0	0.0
15	QPSK	36	43	23.22	23.29	23.21	24.0	0.0
15	QPSK	75	0	23.26	23.33	23.28		
15	16QAM	1	1	22.92	23.01	22.96	24.0	0.0
15	16QAM	1	1	22.96	22.12	22.07	23.0	1.0
15	256QAM	1	1	20.42	20.48	20.47	21.0	3.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
10	QPSK	1	1	23.25	23.46	23.35	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.28	23.44	23.28	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				158100	158300	158500		
Frequency (MHz)				793				
10	PI2 BPSK	1	1		23.29			
10	PI2 BPSK	1	26		23.19		24.0	0.0
10	PI2 BPSK	1	50		23.15			
10	PI2 BPSK	25	0		23.18		24.0	0.0
10	PI2 BPSK	25	14		23.25		24.0	0.0
10	PI2 BPSK	25	27		23.19		24.0	0.0
10	PI2 BPSK	50	0		23.29			
10	QPSK	1	1		23.56			
10	QPSK	1	26		23.25		24.0	0.0
10	QPSK	1	50		23.17			
10	QPSK	25	0		23.21		24.0	0.0
10	QPSK	25	14		23.37		24.0	0.0
10	QPSK	25	27		23.20		24.0	0.0
10	QPSK	50	0		23.25			
10	16QAM	1	1		23.51		24.0	0.0
10	16QAM	1	1		22.31		23.0	1.0
10	256QAM	1	1		20.58		21.0	3.0
Channel				158100	158300	158500		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	23.49	23.54	23.48	24.0	0.0

n25 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				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	21.53	21.58	21.53		
20	PI2 BPSK	1	53	21.50	21.54	21.48	23.0	0.0
20	PI2 BPSK	1	104	21.51	21.56	21.53		
20	PI2 BPSK	50	0	21.48	21.53	21.45	23.0	0.0
20	PI2 BPSK	50	28	21.48	21.52	21.50	23.0	0.0
20	PI2 BPSK	50	56	21.42	21.49	21.47	23.0	0.0
20	PI2 BPSK	100	0	21.50	21.52	21.47		
20	QPSK	1	1	21.53	21.57	21.51		
20	QPSK	1	53	21.45	21.52	21.44	23.0	0.0
20	QPSK	1	104	21.45	21.54	21.51		
20	QPSK	50	0	21.47	21.49	21.44	23.0	0.0
20	QPSK	50	28	21.46	21.51	21.48	23.0	0.0
20	QPSK	50	56	21.41	21.43	21.33	23.0	0.0
20	QPSK	100	0	21.38	21.48	21.41		
20	16QAM	1	1	21.56	21.60	21.57	22.0	1.0
20	16QAM	1	1	20.30	20.33	20.30	21.0	2.0
20	256QAM	1	1	18.60	18.64	18.59	20.0	3.0
Channel				371500	376500	381500		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	21.47	21.65	21.46	23.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	21.44	21.62	21.45	23.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	21.43	21.62	21.41	23.0	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								
Frequency (MHz)				164500	166300	167600		
20	PI2 BPSK	1	1	23.19	23.23	23.20		
20	PI2 BPSK	1	53	23.08	23.14	23.06	24.0	0.0
20	PI2 BPSK	1	104	23.11	23.20	23.13		
20	PI2 BPSK	50	0	23.13	23.17	23.09	24.0	0.0
20	PI2 BPSK	50	26	23.07	23.14	23.11	24.0	0.0
20	PI2 BPSK	50	56	23.13	23.17	23.07	24.0	0.0
20	PI2 BPSK	100	0	23.10	23.13	23.09		
20	QPSK	1	1	23.37	23.40	23.32		
20	QPSK	1	53	23.05	23.13	23.06	24.0	0.0
20	QPSK	1	104	23.17	23.20	23.13		
20	QPSK	50	0	23.11	23.19	23.11	24.0	0.0
20	QPSK	50	26	23.13	23.42	23.19	24.0	0.0
20	QPSK	50	56	23.12	23.16	23.07	24.0	0.0
20	QPSK	100	0	23.10	23.23	23.11		
20	16QAM	1	1	23.23	23.26	23.18	24.0	0.0
20	64QAM	1	1	21.88	21.90	21.84	23.0	1.0
20	256QAM	1	1	19.84	20.02	19.86	21.0	3.0
Channel								
Frequency (MHz)				164500	166300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.10	23.25	23.05	24.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.14	23.25	23.09	24.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.15	23.21	23.08	24.0	0.0

n30 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)				461500	463000	465000		
10	PI2 BPSK	1	1	20.61	20.61	20.61		
10	PI2 BPSK	1	26	20.52	20.52	20.52	22.0	0.0
10	PI2 BPSK	1	50	20.51	20.51	20.51		
10	PI2 BPSK	25	0	18.91	18.91	18.91	20.5	1.5
10	PI2 BPSK	25	14	20.27	20.27	20.27	22.0	0.0
10	PI2 BPSK	25	27	19.51	19.51	19.51	20.5	1.5
10	PI2 BPSK	50	0	20.10	20.10	20.10		
10	QPSK	1	1	20.70	20.70	20.70		
10	QPSK	1	26	20.55	20.55	20.55	22.0	0.0
10	QPSK	1	50	20.05	20.05	20.05		
10	QPSK	25	0	20.21	20.21	20.21	21.0	1.0
10	QPSK	25	14	20.43	20.43	20.43	22.0	0.0
10	QPSK	25	27	20.25	20.25	20.25	21.0	1.0
10	QPSK	50	0	19.35	19.35	19.35		
10	16QAM	1	1	19.09	19.09	19.09	21.0	1.0
10	64QAM	1	1	18.08	18.08	18.08	19.5	2.5
10	256QAM	1	1	16.80	16.80	16.80	17.5	4.5
Channel								
Frequency (MHz)				461500	463000	465000	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.63	20.65	20.63	22.0	0.0

n66 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)				1730	1745	1760		
40	PI2 BPSK	1	1	21.43	22.36	21.85		
40	PI2 BPSK	1	108	21.45	22.33	21.84	23.0	0.0
40	PI2 BPSK	1	214	21.46	22.37	21.79		
40	PI2 BPSK	108	0	21.04	21.89	21.42	22.5	0.5
40	PI2 BPSK	108	54	21.42	22.36	21.86	23.0	0.0
40	PI2 BPSK	108	108	21.08	21.96	21.40	22.5	0.5
40	PI2 BPSK	216	0	21.09	21.88	21.39		
40	QPSK	1	1	21.56	22.43	21.89		
40	QPSK	1	108	21.46	22.36	21.82	23.0	0.0
40	QPSK	1	214	21.46	22.30	21.77		
40	QPSK	108	0	20.55	21.43	20.88	22.0	1.0
40	QPSK	108	54	21.48	22.40	21.85	23.0	0.0
40	QPSK	108	108	20.60	21.39	20.86	22.0	1.0
40	QPSK	216	0	20.55	21.48	20.86		
40	16QAM	1	1	20.51	21.45	20.94	22.0	1.0
40	64QAM	1	1	19.05	19.98	19.39	20.5	2.5
40	256QAM	1	1	17.05	17.88	17.37	18.5	4.5
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.50	22.41	21.82	23.0	0.0
Channel								
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.50	22.39	21.75	23.0	0.0
Channel								
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.44	22.38	21.85	23.0	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.44	22.41	21.85	23.0	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.49	22.41	21.78	23.0	0.0



n70 Main PA Ant1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				340500			
Frequency (MHz)				1702.5			
15	PI/2 BPSK	1	1	21.14			
15	PI/2 BPSK	1	40	21.12			22.0
15	PI/2 BPSK	1	77	20.98			22.0
15	PI/2 BPSK	36	0	20.99			22.0
15	PI/2 BPSK	36	22	21.02			22.0
15	PI/2 BPSK	36	43	20.99			22.0
15	PI/2 BPSK	75	0	21.03			22.0
15	QPSK	1	1	21.16			22.0
15	QPSK	1	40	21.15			22.0
15	QPSK	1	77	20.91			22.0
15	QPSK	36	0	20.98			22.0
15	QPSK	36	22	21.06			22.0
15	QPSK	36	43	20.97			22.0
15	QPSK	75	0	21.03			22.0
15	16QAM	1	1	21.01			22.0
15	16QAM	1	1	19.33			21.0
15	256QAM	1	1	17.77			19.0
Channel				340300	340500	341000	
Frequency (MHz)				1700	1702.5	1705	
10	QPSK	1	1	21.08	21.13	21.13	22.0
Channel				339500	340500	341500	
Frequency (MHz)				1697.5	1702.5	1707.5	
5	QPSK	1	1	21.12	21.07	21.12	22.0

n71 Main PA Ant1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				138600	138100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.96	23.98	23.91	
20	PI/2 BPSK	1	53	23.84	23.91	23.84	24.5
20	PI/2 BPSK	1	104	23.72	23.75	23.69	24.0
20	PI/2 BPSK	50	0	23.51	23.57	23.48	24.0
20	PI/2 BPSK	50	28	23.85	23.89	23.86	24.5
20	PI/2 BPSK	50	56	23.38	23.49	23.41	24.0
20	PI/2 BPSK	100	0	23.45	23.52	23.47	24.5
20	QPSK	1	1	24.01	24.07	23.85	
20	QPSK	1	53	23.81	23.86	23.81	24.5
20	QPSK	1	104	23.67	23.76	23.66	23.5
20	QPSK	50	0	22.94	23.01	22.95	23.5
20	QPSK	50	28	23.85	23.92	23.87	24.5
20	QPSK	50	56	22.80	22.86	22.77	23.5
20	QPSK	100	0	23.02	23.04	23.01	23.5
20	16QAM	1	1	23.08	23.11	23.06	23.5
20	16QAM	1	1	21.35	21.41	21.35	22.0
20	256QAM	1	1	19.74	19.78	19.68	20.0
Channel				134100	133100	132100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	23.97	24.00	23.83	24.5
Channel				133600	136100	138600	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	1	23.93	24.04	23.82	24.5
Channel				133100	135100	135100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	23.94	24.03	23.76	24.5



n41 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 52620	Power Middle Ch. / Freq. 51898	Power High Ch. / Freq. 52920	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.84	23.71	23.63		
100	PI2 BPSK	1	137	23.45	23.55	23.51	24.0	0.0
100	PI2 BPSK	1	271	23.45	23.54	23.48		
100	PI2 BPSK	135	0	23.27	23.36	23.28	24.0	0.0
100	PI2 BPSK	135	69	23.63	23.67	23.58	24.0	0.0
100	PI2 BPSK	135	138	23.17	23.21	23.12	24.0	0.0
100	PI2 BPSK	270	0	23.08	23.12	23.07		
100	QPSK	1	1	23.21	23.72	23.18		
100	QPSK	1	137	23.45	23.53	23.47	24.0	0.0
100	QPSK	1	271	23.34	23.42	23.34		
100	QPSK	135	0	23.33	23.39	23.30	24.0	0.0
100	QPSK	135	69	23.62	23.69	23.62	24.0	0.0
100	QPSK	135	138	23.15	23.22	23.15	24.0	0.0
100	QPSK	270	0	23.43	23.51	23.42		
100	16QAM	1	1	23.37	23.44	23.41	24.0	0.0
100	16QAM	1	1	22.96	23.02	22.97	24.0	0.0
100	256QAM	1	1	22.76	22.82	22.79	24.0	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.18	23.65	23.08	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.11	23.62	23.13	24.0	0.0
Channel								
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.12	23.63	23.08	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.16	23.64	23.12	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.11	23.64	23.07	24.0	0.0
Channel								
Frequency (MHz)				2536	2592.99	2659.99	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.15	23.69	23.12	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.16	23.65	23.10	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.12	23.66	23.06	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 52620	Power Middle Ch. / Freq. 51898	Power High Ch. / Freq. 52920	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	26.57	26.62	26.59		
100	PI2 BPSK	1	137	26.42	26.46	26.41	27.0	0.0
100	PI2 BPSK	1	271	26.41	26.45	26.43		
100	PI2 BPSK	135	0	25.31	26.35	26.28	27.0	0.0
100	PI2 BPSK	135	69	26.57	26.60	26.58	27.0	0.0
100	PI2 BPSK	135	138	26.44	26.47	26.45	27.0	0.0
100	PI2 BPSK	270	0	26.33	26.42	26.33		
100	QPSK	1	1	26.16	26.98	26.42		
100	QPSK	1	137	25.46	26.55	26.51	27.0	0.0
100	QPSK	1	271	26.48	26.54	26.47		
100	QPSK	135	0	26.01	26.09	26.05	27.0	0.0
100	QPSK	135	69	26.55	26.60	26.50	27.0	0.0
100	QPSK	135	138	26.44	26.53	26.47	27.0	0.0
100	QPSK	270	0	25.45	26.46	26.45		
100	16QAM	1	1	26.17	26.24	26.17	27.0	0.0
100	16QAM	1	1	24.39	24.46	24.40	25.5	1.5
100	256QAM	1	1	23.11	23.14	23.11	24.0	3.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	26.13	26.59	26.32	27.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.15	26.64	26.33	27.0	0.0
Channel								
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	26.12	26.65	26.38	27.0	0.0
Channel								
Frequency (MHz)				502200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	26.12	26.63	26.39	27.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	26.12	26.61	26.35	27.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	26.14	26.62	26.35	27.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	26.11	26.62	26.33	27.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	26.13	26.60	26.38	27.0	0.0

n48 Part96 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63000	Power Middle Ch. / Freq. 64166	Power High Ch. / Freq. 64532	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3670	3624.99	3679.98		
40	PI2 BPSK	1	1	21.61	21.65	21.66		
40	PI2 BPSK	1	53	21.57	21.60	21.53	23.0	0.0
40	PI2 BPSK	1	104	21.52	21.58	21.59		
40	PI2 BPSK	50	0	21.63	21.65	21.63	22.5	0.5
40	PI2 BPSK	50	28	21.52	21.66	21.45	23.0	0.0
40	PI2 BPSK	50	56	21.53	21.62	21.51	22.5	0.5
40	PI2 BPSK	100	0	21.60	21.61	21.51		
40	QPSK	1	1	21.66	21.75	21.66		
40	QPSK	1	53	21.63	21.67	21.55	23.0	0.0
40	QPSK	1	104	21.62	21.69	21.61		
40	QPSK	50	0	21.58	21.62	21.64	22.0	1.0
40	QPSK	50	28	21.55	21.69	21.53	23.0	0.0
40	QPSK	80	56	21.58	21.67	21.59	22.0	1.0
40	QPSK	100	0	21.51	21.68	21.55		
40	16QAM	1	1	21.54	21.65	21.53	22.0	1.0
40	16QAM	1	1	20.20	20.25	20.20	20.5	2.5
40	256QAM	1	1	17.15	17.21	17.19	18.5	4.5
Channel								
Frequency (MHz)				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.57	21.69	21.62	23.0	0.0
Channel								
Frequency (MHz)				637334	641666	645000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.61	21.69	21.57	23.0	0.0
Channel								
Frequency (MHz)				3655	3624.99	3664.98	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.54	21.62	21.64	23.0	0.0



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)				3760	3840	3930		
100	PI2 BPSK	1	1	21.07	22.09	22.04	23.0	0.0
100	PI2 BPSK	1	137	21.06	22.17	22.12		
100	PI2 BPSK	1	271	21.02	22.18	22.09		
100	PI2 BPSK	135	0	20.56	21.89	21.85	22.5	0.5
100	PI2 BPSK	135	69	21.01	22.15	22.10	23.0	0.0
100	PI2 BPSK	135	138	20.58	21.73	21.60	22.5	0.5
100	PI2 BPSK	270	0	20.81	21.68	21.65		
100	QPSK	1	1	21.09	22.20	22.13		
100	QPSK	1	137	21.06	22.14	22.03	23.0	0.0
100	QPSK	1	271	21.04	22.17	22.06		
100	QPSK	135	0	20.08	21.16	21.15	22.0	1.0
100	QPSK	135	69	21.01	22.18	22.11	23.0	0.0
100	QPSK	135	138	20.12	21.20	21.13	22.0	1.0
100	QPSK	270	0	20.06	21.16	21.15	22.0	1.0
100	16QAM	1	1	20.14	21.15	21.09	22.0	1.0
100	16QAM	1	1	18.80	19.71	19.58	20.5	2.5
100	256QAM	1	1	16.59	17.72	17.59	18.5	4.5
Channel								
Frequency (MHz)				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.05	22.16	22.04	23.0	0.0
Channel								
Frequency (MHz)				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.01	22.13	22.04	23.0	0.0
Channel								
Frequency (MHz)				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.01	22.10	22.04	23.0	0.0
Channel								
Frequency (MHz)				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.07	22.13	22.11	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.03	22.17	22.09	23.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.01	22.12	22.08	23.0	0.0
Channel								
Frequency (MHz)				647868	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.07	22.16	22.05	23.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.02	22.18	22.11	23.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.07	22.12	22.12	23.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.03	22.17	22.09	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	24.29	24.30	24.25		
100	PI2 BPSK	1	137	24.26	24.34	24.31	26.0	0.0
100	PI2 BPSK	1	271	24.17	24.34	24.27		
100	PI2 BPSK	135	0	23.70	23.84	23.83	25.5	0.5
100	PI2 BPSK	135	69	24.28	24.30	24.28	26.0	0.0
100	PI2 BPSK	135	138	23.71	23.98	23.77	25.5	0.5
100	PI2 BPSK	270	0	23.85	23.91	23.81		
100	QPSK	1	1	24.23	24.45	24.30		
100	QPSK	1	137	24.22	24.36	24.27	26.0	0.0
100	QPSK	1	271	24.17	24.37	24.22		
100	QPSK	135	0	23.27	23.32	23.33	25.0	1.0
100	QPSK	135	69	24.18	24.42	24.31	26.0	0.0
100	QPSK	135	138	23.21	23.44	23.30	25.0	1.0
100	QPSK	270	0	23.23	23.35	23.31	25.0	1.0
100	16QAM	1	1	23.33	23.34	23.24	25.0	1.0
100	16QAM	1	1	21.83	21.89	21.73	23.5	2.5
100	256QAM	1	1	19.82	19.86	19.77	21.5	4.5
Channel								
Frequency (MHz)				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.29	24.39	24.18	26.0	0.0
Channel								
Frequency (MHz)				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.27	24.31	24.20	26.0	0.0
Channel								
Frequency (MHz)				649334	650000	653000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.27	24.37	24.18	26.0	0.0
Channel								
Frequency (MHz)				649334	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.26	24.31	24.18	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.29	24.33	24.23	26.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.24	24.37	24.22	26.0	0.0
Channel								
Frequency (MHz)				647868	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.20	24.31	24.23	26.0	0.0
Channel								
Frequency (MHz)				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.32	24.38	24.27	26.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.30	24.33	24.19	26.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.23	24.31	24.17	26.0	0.0

Part27Q 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)						3500.01		
100	PI2 BPSK	1	1			22.87		
100	PI2 BPSK	1	137			22.83	23.0	0.0
100	PI2 BPSK	1	271			22.81		
100	PI2 BPSK	135	0			22.39	22.5	0.5
100	PI2 BPSK	135	69			22.84	23.0	0.0
100	PI2 BPSK	135	138			22.35	22.5	0.5
100	PI2 BPSK	270	0			22.42		
100	QPSK	1	1			22.86		
100	QPSK	1	137			22.82	23.0	0.0
100	QPSK	1	271			22.76		
100	QPSK	135	0			21.97	22.0	1.0
100	QPSK	135	69			22.89	23.0	0.0
100	QPSK	135	138			21.80	22.0	1.0
100	QPSK	270	0			21.88		
100	16QAM	1	1			21.97	22.0	1.0
100	16QAM	1	1			20.32	20.5	2.5
100	256QAM	1	1			18.35	18.5	4.5
Channel								
Frequency (MHz)				633090	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.76	22.82	22.76	23.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.78	22.86	22.81	23.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.79	22.88	22.79	23.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.78	22.78	22.78	23.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.76	22.67	22.76	23.0	0.0
Channel								
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.80	22.87	22.71	23.0	0.0
Channel								
Frequency (MHz)				631000	633334	633668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.83	22.80	22.73	23.0	0.0
Channel								
Frequency (MHz)				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.78	22.85	22.81	23.0	0.0
Channel								
Frequency (MHz)				630300	633334	634334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.83	22.84	22.73	23.0	0.0
Channel								
Frequency (MHz)				630334	633334	634668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.81	22.88	22.79	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.57	25.57	25.57	26.0	0.0
100	PI2 BPSK	1	137	25.53	25.48	25.53	26.0	0.0
100	PI2 BPSK	1	271	25.48	25.48	25.48	26.0	0.0
100	PI2 BPSK	135	0	25.38	25.38	25.38	25.5	0.5
100	PI2 BPSK	135	69	25.54	25.54	25.54	26.0	0.0
100	PI2 BPSK	135	138	25.32	25.32	25.32	25.5	0.5
100	PI2 BPSK	270	0	25.29	25.29	25.29	26.0	0.0
100	QPSK	1	1	25.56	25.56	25.56	26.0	0.0
100	QPSK	1	137	25.56	25.56	25.56	26.0	0.0
100	QPSK	1	271	25.54	25.54	25.54	26.0	1.0
100	QPSK	135	0	24.74	24.74	24.74	25.0	1.0
100	QPSK	135	69	25.62	25.62	25.62	26.0	0.0
100	QPSK	135	138	24.71	24.71	24.71	25.0	1.0
100	QPSK	270	0	24.65	24.65	24.65	25.0	1.0
100	16QAM	1	1	24.85	24.85	24.85	25.0	1.0
100	64QAM	1	1	23.21	23.21	23.21	23.5	2.5
100	256QAM	1	1	21.12	21.12	21.12	21.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.56	25.57	25.56	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.48	25.52	25.53	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.50	25.60	25.55	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.52	25.57	25.49	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.48	25.55	25.48	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.51	25.60	25.48	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.50	25.57	25.54	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.52	25.61	25.55	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.49	25.55	25.57	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.55	25.53	25.50	26.0	0.0

Part27O 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)								
100	PI2 BPSK	1	1	20.44	20.56	20.47	22.0	0.0
100	PI2 BPSK	1	137	20.51	20.56	20.54	22.0	0.0
100	PI2 BPSK	1	271	20.31	20.53	20.51	22.0	0.0
100	PI2 BPSK	135	0	19.88	20.08	20.05	21.5	0.5
100	PI2 BPSK	135	69	20.44	20.54	20.45	22.0	0.0
100	PI2 BPSK	135	138	19.86	20.16	19.99	21.5	0.5
100	PI2 BPSK	270	0	20.06	20.15	19.97	22.0	0.0
100	QPSK	1	1	20.56	20.64	20.53	22.0	0.0
100	QPSK	1	137	20.43	20.56	20.47	22.0	0.0
100	QPSK	1	271	20.32	20.60	20.42	22.0	0.0
100	QPSK	135	0	19.43	19.56	19.54	21.0	1.0
100	QPSK	135	69	20.36	20.62	20.54	22.0	0.0
100	QPSK	135	138	19.47	19.67	19.49	21.0	1.0
100	QPSK	270	0	19.42	19.54	19.48	22.0	0.0
100	16QAM	1	1	19.49	19.58	19.50	21.0	1.0
100	64QAM	1	1	18.02	18.14	17.98	19.5	2.5
100	256QAM	1	1	16.02	16.16	15.98	17.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.53	20.54	20.43	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.45	20.50	20.49	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.43	20.52	20.47	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.44	20.62	20.46	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.50	20.53	20.43	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.42	20.55	20.49	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.49	20.51	20.41	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.51	20.54	20.51	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.51	20.50	20.40	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.52	20.58	20.43	22.0	0.0

Part27Q 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)								
100	PI2 BPSK	1	1	21.44	21.44	21.44	22.0	0.0
100	PI2 BPSK	1	137	21.42	21.42	21.42	22.0	0.0
100	PI2 BPSK	1	271	21.38	21.38	21.38	22.0	0.0
100	PI2 BPSK	135	0	21.07	21.07	21.07	21.5	0.5
100	PI2 BPSK	135	69	21.48	21.48	21.48	22.0	0.0
100	PI2 BPSK	135	138	21.00	21.00	21.00	21.5	0.5
100	PI2 BPSK	270	0	21.07	21.07	21.07	22.0	0.0
100	QPSK	1	1	21.52	21.52	21.52	22.0	0.0
100	QPSK	1	137	21.46	21.46	21.46	22.0	0.0
100	QPSK	1	271	21.40	21.40	21.40	22.0	0.0
100	QPSK	135	0	20.52	20.52	20.52	21.0	1.0
100	QPSK	135	69	21.49	21.49	21.49	22.0	0.0
100	QPSK	135	138	20.47	20.47	20.47	21.0	1.0
100	QPSK	270	0	20.46	20.46	20.46	21.0	1.0
100	16QAM	1	1	20.57	20.57	20.57	21.0	1.0
100	64QAM	1	1	19.06	19.06	19.06	19.5	2.5
100	256QAM	1	1	17.06	17.06	17.06	17.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.37	21.38	21.40	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.25	21.43	21.39	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.36	21.39	21.33	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.38	21.38	21.41	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.28	21.41	21.34	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.28	21.42	21.35	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.29	21.40	21.33	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.29	21.43	21.39	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.29	21.43	21.36	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.36	21.43	21.39	22.0	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)				1850	1880	1900		
20	PI2 BPSK	1	1	21.83	21.87	21.77		
20	PI2 BPSK	1	53	21.71	21.81	21.74	23.0	0.0
20	PI2 BPSK	1	104	21.66	21.73	21.66		
20	PI2 BPSK	50	0	21.71	21.77	21.68	23.0	0.0
20	PI2 BPSK	50	26	21.67	21.71	21.65	23.0	0.0
20	PI2 BPSK	50	56	21.76	21.78	21.74	23.0	0.0
20	PI2 BPSK	100	0	21.64	21.72	21.64		
20	QPSK	1	1	21.81	21.88	21.67		
20	QPSK	1	53	21.80	21.86	21.83	23.0	0.0
20	QPSK	1	104	21.78	21.81	21.78		
20	QPSK	50	0	21.70	21.79	21.76	23.0	0.0
20	QPSK	50	26	21.76	21.83	21.80	23.0	0.0
20	QPSK	50	56	21.59	21.68	21.64	23.0	0.0
20	QPSK	100	0	21.73	21.76	21.67		
20	16QAM	1	1	21.77	21.86	21.80	23.0	0.0
20	16QAM	1	1	20.60	20.67	20.64	22.0	1.0
20	256QAM	1	1	18.86	18.90	18.81	20.0	3.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.77	21.79	21.59	23.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.70	21.84	21.64	23.0	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.76	21.85	21.80	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.19	22.26	22.23		
40	PI2 BPSK	1	108	22.17	22.24	22.22	23.0	0.0
40	PI2 BPSK	1	214	22.24	22.11	22.01		
40	PI2 BPSK	108	0	22.08	22.13	22.07	23.0	0.0
40	PI2 BPSK	108	54	22.06	22.12	22.02	23.0	0.0
40	PI2 BPSK	108	108	22.09	22.12	22.05	23.0	0.0
40	PI2 BPSK	216	0	22.12	22.14	22.12		
40	QPSK	1	1	22.16	22.20	22.17		
40	QPSK	1	108	22.18	22.22	22.12	23.0	0.0
40	QPSK	1	214	22.01	22.06	22.03		
40	QPSK	108	0	22.03	22.12	22.10	23.0	0.0
40	QPSK	108	54	22.16	22.21	22.17	23.0	0.0
40	QPSK	108	108	22.20	22.08	22.01	23.0	0.0
40	QPSK	216	0	22.10	22.13	22.08		
40	16QAM	1	1	21.89	21.98	21.96	23.0	0.0
40	16QAM	1	1	20.70	20.72	20.64	22.0	1.0
40	256QAM	1	1	19.26	19.29	19.21	20.0	3.0
Channel								
Frequency (MHz)				50300	50700	51000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.10	22.21	22.12	23.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.15	22.35	22.14	23.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	22.16	22.26	22.11	23.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.12	22.20	22.08	23.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.15	22.19	22.09	23.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.10	22.21	22.14	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	21.87	21.96	21.87		
20	PI2 BPSK	1	53	21.85	21.88	21.81	23.0	0.0
20	PI2 BPSK	1	104	21.86	21.92	21.88		
20	PI2 BPSK	50	0	21.75	21.79	21.76	23.0	0.0
20	PI2 BPSK	50	26	21.66	21.75	21.70	23.0	0.0
20	PI2 BPSK	50	56	21.87	21.72	21.70	23.0	0.0
20	PI2 BPSK	100	0	21.70	21.75	21.72		
20	QPSK	1	1	21.77	21.98	21.67		
20	QPSK	1	53	21.87	21.77	21.71	23.0	0.0
20	QPSK	1	104	21.71	21.78	21.69		
20	QPSK	50	0	21.78	21.80	21.76	23.0	0.0
20	QPSK	50	26	21.83	21.86	21.81	23.0	0.0
20	QPSK	50	56	21.83	21.69	21.64	23.0	0.0
20	QPSK	100	0	21.88	21.77	21.74		
20	16QAM	1	1	21.33	21.39	21.31	23.0	0.0
20	16QAM	1	1	20.44	20.49	20.46	22.0	1.0
20	256QAM	1	1	18.86	18.94	18.85	20.0	3.0
Channel								
Frequency (MHz)				371000	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.71	21.83	21.64	23.0	0.0
Channel								
Frequency (MHz)				371500	376500	382000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.74	21.93	21.64	23.0	0.0
Channel								
Frequency (MHz)				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.75	21.86	21.59	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				453000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	21.69	21.69	21.69		
10	PI2 BPSK	1	26	21.65	21.65	21.65	23.0	0.0
10	PI2 BPSK	1	50	21.56	21.56	21.56	22.5	0.5
10	PI2 BPSK	25	0	20.84	20.84	20.84	23.0	0.0
10	PI2 BPSK	25	14	21.46	21.46	21.46	23.0	0.0
10	PI2 BPSK	25	27	21.04	21.04	21.04	22.5	0.5
10	PI2 BPSK	50	0	21.24	21.24	21.24	23.0	0.0
10	QPSK	1	1	21.71	21.71	21.71	23.0	0.0
10	QPSK	1	26	21.56	21.56	21.56	23.0	0.0
10	QPSK	1	50	21.19	21.19	21.19	22.0	1.0
10	QPSK	25	0	21.25	21.25	21.25	23.0	0.0
10	QPSK	25	14	21.38	21.38	21.38	22.0	1.0
10	QPSK	25	27	20.93	20.93	20.93	22.0	1.0
10	QPSK	50	0	20.11	20.11	20.11	22.0	1.0
10	16QAM	1	1	20.09	20.09	20.09	22.0	1.0
10	16QAM	1	1	19.32	19.32	19.32	20.5	2.5
10	256QAM	1	1	17.50	17.50	17.50	18.5	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	21.64	21.62	21.68	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.90	21.98	21.94		
40	PI2 BPSK	1	108	21.78	21.87	21.78	23.0	0.0
40	PI2 BPSK	1	214	21.81	21.98	21.78	23.0	0.0
40	PI2 BPSK	108	0	21.87	21.89	21.85	23.0	0.0
40	PI2 BPSK	108	54	21.79	21.81	21.78	23.0	0.0
40	PI2 BPSK	108	108	21.80	21.87	21.84	23.0	0.0
40	PI2 BPSK	216	0	21.84	21.97	21.92	23.0	0.0
40	QPSK	1	1	22.01	22.14	21.82	23.0	0.0
40	QPSK	1	108	21.76	21.81	21.75	23.0	0.0
40	QPSK	1	214	21.83	21.90	21.86	23.0	0.0
40	QPSK	108	0	21.84	21.88	21.81	23.0	0.0
40	QPSK	108	54	22.00	22.06	22.01	23.0	0.0
40	QPSK	108	108	21.85	21.92	21.88	23.0	0.0
40	QPSK	216	0	21.87	21.97	21.95	23.0	0.0
40	16QAM	1	1	21.84	21.89	21.79	23.0	0.0
40	16QAM	1	1	20.46	20.55	20.48	22.0	1.0
40	256QAM	1	1	18.96	19.02	18.99	20.0	3.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.97	22.10	21.77	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.96	22.06	21.70	23.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.82	22.07	21.74	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.98	22.07	21.75	23.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.96	22.07	21.74	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346500	349500	352500		
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	22.26	22.26	22.26		
15	PI2 BPSK	1	40	22.21	22.21	22.21	23.0	0.0
15	PI2 BPSK	1	77	22.05	22.05	22.05	23.0	0.0
15	PI2 BPSK	36	0	22.21	22.21	22.21	23.0	0.0
15	PI2 BPSK	36	22	22.18	22.18	22.18	23.0	0.0
15	PI2 BPSK	36	43	22.09	22.09	22.09	23.0	0.0
15	PI2 BPSK	75	0	22.15	22.15	22.15	23.0	0.0
15	QPSK	1	1	22.29	22.29	22.29	23.0	0.0
15	QPSK	1	40	22.17	22.17	22.17	23.0	0.0
15	QPSK	1	77	22.03	22.03	22.03	23.0	0.0
15	QPSK	36	0	22.16	22.16	22.16	23.0	0.0
15	QPSK	36	22	22.23	22.23	22.23	23.0	0.0
15	QPSK	36	43	22.06	22.06	22.06	23.0	0.0
15	QPSK	75	0	22.20	22.20	22.20	23.0	0.0
15	16QAM	1	1	22.28	22.28	22.28	23.0	0.0
15	16QAM	1	1	20.44	20.44	20.44	22.0	1.0
15	256QAM	1	1	18.98	18.98	18.98	20.0	3.0
Channel				346000	349500	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	22.23	22.25	22.22	23.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	22.25	22.22	22.25	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.15	23.19	23.16		
100	PI2 BPSK	1	137	22.84	23.02	22.99		
100	PI2 BPSK	1	271	22.72	22.81	22.75		
100	PI2 BPSK	135	0	23.07	23.14	23.10	24.0	0.0
100	PI2 BPSK	135	69	22.88	22.92	22.89	24.0	0.0
100	PI2 BPSK	135	138	22.87	22.74	22.71	24.0	0.0
100	PI2 BPSK	270	0	22.82	22.91	22.87		
100	QPSK	1	1	22.92	23.22	22.87		
100	QPSK	1	137	22.78	22.87	22.84	24.0	0.0
100	QPSK	1	271	22.68	22.72	22.68		
100	QPSK	135	0	22.81	22.82	22.80	24.0	0.0
100	QPSK	135	69	22.76	22.86	22.79	24.0	0.0
100	QPSK	135	138	22.86	22.76	22.89	24.0	0.0
100	QPSK	270	0	22.85	22.94	22.90		
100	16QAM	1	1	23.08	23.15	23.08	24.0	0.0
100	16QAM	1	1	22.91	22.95	22.86	24.0	0.0
100	256QAM	1	1	22.30	22.38	22.34	22.5	1.5
Channel								
Frequency (MHz)				5020.00	518598	532998	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.88	23.18	22.78	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.83	23.15	22.83	24.0	0.0
Channel								
Frequency (MHz)				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.86	23.14	22.78	24.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.88	23.13	22.78	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.85	23.16	22.81	24.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.84	23.16	22.80	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.86	23.13	22.82	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.89	23.15	22.83	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	26.27	26.29	26.27		
100	PI2 BPSK	1	137	26.10	26.15	26.07	27.0	0.0
100	PI2 BPSK	1	271	26.04	26.12	26.03		
100	PI2 BPSK	135	0	26.03	26.07	26.04	27.0	0.0
100	PI2 BPSK	135	69	25.98	26.06	25.96	27.0	0.0
100	PI2 BPSK	135	138	25.95	26.01	25.93	27.0	0.0
100	PI2 BPSK	270	0	26.01	26.04	25.95		
100	QPSK	1	1	25.96	26.32	26.12		
100	QPSK	1	137	26.18	26.21	26.19	27.0	0.0
100	QPSK	1	271	26.05	25.78	26.12		
100	QPSK	135	0	25.88	25.78	25.88	27.0	0.0
100	QPSK	135	69	25.70	25.97	25.71	27.0	0.0
100	QPSK	135	138	25.74	25.79	25.72	27.0	0.0
100	QPSK	270	0	25.71	25.78	25.72		
100	16QAM	1	1	26.12	26.17	26.09	27.0	0.0
100	16QAM	1	1	24.06	24.11	24.05	25.5	1.5
100	256QAM	1	1	22.12	22.16	22.06	23.5	3.5
Channel								
Frequency (MHz)				503200	518598	535998	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.93	26.30	26.07	27.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.93	26.23	26.03	27.0	0.0
Channel								
Frequency (MHz)				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.90	26.23	26.09	27.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.93	26.29	26.09	27.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.93	26.23	26.06	27.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.92	26.25	26.02	27.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.88	26.25	26.03	27.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.93	26.26	26.09	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	22.22	22.21	22.26		
40	PI2 BPSK	1	53	22.22	22.17	22.17	24.0	0.0
40	PI2 BPSK	1	104	22.16	22.23	22.14		
40	PI2 BPSK	50	0	22.28	22.21	22.18	23.5	0.5
40	PI2 BPSK	50	28	22.17	22.28	22.05	24.0	0.0
40	PI2 BPSK	50	56	22.15	22.21	22.11	23.5	0.5
40	PI2 BPSK	100	0	22.15	22.23	22.11		
40	QPSK	1	1	22.30	22.40	22.32		
40	QPSK	1	53	22.24	22.27	22.17	24.0	0.0
40	QPSK	1	104	22.22	22.24	22.17		
40	QPSK	50	0	22.22	22.19	22.29	23.0	1.0
40	QPSK	50	28	22.12	22.32	22.17	24.0	0.0
40	QPSK	50	56	22.23	22.29	22.23	23.0	1.0
40	QPSK	100	0	22.07	22.25	22.15		
40	16QAM	1	1	22.15	22.28	22.11	23.0	1.0
40	16QAM	1	1	20.77	20.84	20.83	21.5	2.5
40	256QAM	1	1	17.70	17.81	17.78	19.5	4.5
Channel								
Frequency (MHz)				637000	641666	645500	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.23	22.37	22.20	24.0	0.0
Channel								
Frequency (MHz)				637334	641666	645000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.25	22.30	22.21	24.0	0.0
Channel								
Frequency (MHz)				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.21	22.32	22.20	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	22.08	22.08	22.18		
100	Pl2 BPSK	1	137	22.18	22.08	22.07	23.0	0.0
100	Pl2 BPSK	1	271	22.01	22.17	22.06		
100	Pl2 BPSK	135	0	22.19	22.14	22.08	22.5	0.5
100	Pl2 BPSK	135	69	22.11	22.13	22.12	23.0	0.0
100	Pl2 BPSK	135	138	22.02	22.14	22.03	22.5	0.5
100	Pl2 BPSK	270	0	22.03	22.08	21.98		
100	QPSK	1	1	22.23	22.33	22.28		
100	QPSK	1	137	22.11	22.20	22.12	23.0	0.0
100	QPSK	1	271	22.16	22.13	22.09		
100	QPSK	135	0	21.24	21.35	21.25	22.0	1.0
100	QPSK	135	69	22.04	22.31	22.02	23.0	0.0
100	QPSK	135	138	21.26	21.33	21.32	22.0	1.0
100	QPSK	270	0	21.25	21.30	21.26		
100	16QAM	1	1	21.10	21.21	20.99	22.0	1.0
100	16QAM	1	1	19.71	18.86	19.82	20.5	2.5
100	256QAM	1	1	17.73	17.67	17.76	18.5	4.5
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.15	22.27	22.22	23.0	0.0
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.15	22.28	22.22	23.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.20	22.26	22.19	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	22.20	22.26	22.22	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	22.14	22.26	22.19	23.0	0.0
Channel				648334	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.18	22.31	22.19	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	22.17	22.23	22.19	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	22.17	22.23	22.22	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	22.13	22.23	22.25	23.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.18	22.25	22.23	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	24.12	24.79	24.11		
100	Pl2 BPSK	1	137	24.08	24.84	24.04	26.0	0.0
100	Pl2 BPSK	1	271	24.12	24.86	24.09		
100	Pl2 BPSK	135	0	23.83	24.39	23.81	25.5	0.5
100	Pl2 BPSK	135	69	24.12	24.94	24.12	26.0	0.0
100	Pl2 BPSK	135	138	23.80	24.41	23.61	25.5	0.5
100	Pl2 BPSK	270	0	23.70	24.48	23.70		
100	QPSK	1	1	24.21	24.96	24.18		
100	QPSK	1	137	24.10	24.84	24.11	26.0	0.0
100	QPSK	1	271	24.10	24.93	24.12		
100	QPSK	135	0	23.20	23.93	23.17	25.0	1.0
100	QPSK	135	69	24.18	24.91	24.15	26.0	0.0
100	QPSK	135	138	23.07	24.01	23.12	25.0	1.0
100	QPSK	270	0	23.14	23.97	23.18		
100	16QAM	1	1	23.16	23.85	23.17	25.0	1.0
100	16QAM	1	1	21.72	22.47	21.76	23.5	2.5
100	256QAM	1	1	19.81	20.34	19.81	21.5	4.5
Channel				649668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	24.11	24.88	24.11	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	24.08	24.85	24.02	26.0	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	24.13	24.94	24.15	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	24.17	24.92	24.10	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	24.17	24.85	24.06	26.0	0.0
Channel				648000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.15	24.94	24.11	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	24.11	24.93	24.12	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	24.09	24.90	24.04	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	24.09	24.91	24.15	26.0	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	24.13	24.90	24.05	26.0	0.0

Part27Q 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)						3500.01		
100	Pl2 BPSK	1	1			22.31		
100	Pl2 BPSK	1	137			22.38	23.0	0.0
100	Pl2 BPSK	1	271			22.37		
100	Pl2 BPSK	135	0			21.90	22.5	0.5
100	Pl2 BPSK	135	69			22.33	23.0	0.0
100	Pl2 BPSK	135	138			21.94	22.5	0.5
100	Pl2 BPSK	270	0			21.88		
100	QPSK	1	1			22.42		
100	QPSK	1	137			22.40	23.0	0.0
100	QPSK	1	271			22.37		
100	QPSK	135	0			21.43	22.0	1.0
100	QPSK	135	69			22.30	23.0	0.0
100	QPSK	135	138			21.40	22.0	1.0
100	QPSK	270	0			21.48		
100	16QAM	1	1			21.38	22.0	1.0
100	16QAM	1	1			19.96	20.5	2.5
100	256QAM	1	1			17.87	18.5	4.5
Channel				633600	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.23	22.36	22.23	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.24	22.54	22.23	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.31	22.38	22.30	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.31	22.30	22.25	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.29	22.31	22.28	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.23	22.30	22.30	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.31	22.54	22.25	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.24	22.37	22.32	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500.01	3545.01		
15	QPSK	1	1	22.31	22.33	22.25	23.0	0.0
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3450.01	3500.01	3550.01		
10	QPSK	1	1	22.29	22.31	22.30	23.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.48				0.0
100	PI2 BPSK	1	137	25.46			26.0	0.0
100	PI2 BPSK	1	271	25.46			26.0	0.0
100	PI2 BPSK	135	9	25.14			25.5	0.5
100	PI2 BPSK	135	69	25.45			26.0	0.0
100	PI2 BPSK	135	138	25.09			25.5	0.5
100	PI2 BPSK	270	0	25.13			26.0	0.0
100	QPSK	1	1	25.59			26.0	0.0
100	QPSK	1	137	25.50			26.0	0.0
100	QPSK	1	271	25.51			26.0	0.0
100	QPSK	135	0	24.60			25.0	1.0
100	QPSK	135	69	25.46			26.0	0.0
100	QPSK	135	138	24.55			25.0	1.0
100	QPSK	270	0	24.59			26.0	0.0
100	16QAM	1	1	24.60			25.0	1.0
100	16QAM	1	1	23.07			23.5	2.5
100	256QAM	1	1	21.13			21.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.36	25.45	25.31	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.45	25.49	25.33	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.36	25.56	25.42	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.36	25.54	25.42	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.42	25.45	25.32	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.46	25.53	25.37	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.46	25.47	25.33	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.41	25.47	25.33	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.42	25.53	25.35	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.41	25.56	25.35	26.0	0.0

Part27O 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.05				0.0
100	PI2 BPSK	1	137	21.49			23.0	0.0
100	PI2 BPSK	1	271	21.45			23.0	0.0
100	PI2 BPSK	135	0	21.22			22.5	0.5
100	PI2 BPSK	135	69	21.44			23.0	0.0
100	PI2 BPSK	135	138	21.12			22.5	0.5
100	PI2 BPSK	270	0	21.08			23.0	0.0
100	QPSK	1	1	20.83			22.0	1.0
100	QPSK	1	137	20.61			22.0	1.0
100	QPSK	1	271	20.80			22.0	1.0
100	QPSK	135	0	19.84			21.0	2.0
100	QPSK	135	69	20.56			22.0	1.0
100	QPSK	135	138	19.76			21.0	2.0
100	QPSK	270	0	19.75			22.0	1.0
100	16QAM	1	1	20.04			22.0	1.0
100	16QAM	1	1	18.67			20.5	2.5
100	256QAM	1	1	17.09			18.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.47	21.50	21.48	23.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.51	21.48	21.51	23.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.48	21.42	21.51	23.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.47	21.47	21.50	23.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.50	21.45	21.40	23.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.48	21.41	21.45	23.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.50	21.45	21.43	23.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.42	21.48	21.49	23.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.42	21.48	21.43	23.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.50	21.43	21.40	23.0	0.0

Part27Q 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.14				0.0
100	PI2 BPSK	1	137	22.05			23.0	0.0
100	PI2 BPSK	1	271	22.06			23.0	0.0
100	PI2 BPSK	135	0	21.42			22.5	0.5
100	PI2 BPSK	135	69	22.05			23.0	0.0
100	PI2 BPSK	135	138	21.45			22.5	0.5
100	PI2 BPSK	270	0	21.48			23.0	0.0
100	QPSK	1	1	21.29			23.0	0.0
100	QPSK	1	137	21.09			23.0	0.0
100	QPSK	1	271	21.05			23.0	0.0
100	QPSK	135	0	20.23			22.0	1.0
100	QPSK	135	69	21.15			23.0	0.0
100	QPSK	135	138	20.29			22.0	1.0
100	QPSK	270	0	20.28			23.0	0.0
100	16QAM	1	1	20.65			22.0	1.0
100	16QAM	1	1	19.06			20.5	2.5
100	256QAM	1	1	18.01			18.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.04	22.04	22.05	23.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.02	22.09	22.08	23.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.01	21.98	22.05	23.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.09	22.08	21.99	23.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.05	22.05	21.99	23.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.04	22.00	22.01	23.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.07	22.07	22.03	23.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.02	22.05	22.09	23.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.01	22.08	22.08	23.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.05	22.08	22.07	23.0	0.0



n2 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				37200	37600	38000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.78	22.86	22.79		
20	PI2 BPSK	1	53	22.75	22.82	22.72	24.0	0.0
20	PI2 BPSK	1	104	22.65	22.75	22.89		
20	PI2 BPSK	50	0	22.70	22.77	22.74	24.0	0.0
20	PI2 BPSK	50	28	22.89	22.76	22.88	24.0	0.0
20	PI2 BPSK	50	56	22.70	22.74	22.84	24.0	0.0
20	PI2 BPSK	100	0	22.86	22.73	22.85		
20	QPSK	1	1	22.72	22.82	22.87		
20	QPSK	1	53	22.78	22.86	22.77	24.0	0.0
20	QPSK	1	104	22.78	22.83	22.78		
20	QPSK	50	0	22.64	22.69	22.64	24.0	0.0
20	QPSK	50	28	22.61	22.71	22.85	24.0	0.0
20	QPSK	50	56	22.58	22.67	22.80	24.0	0.0
20	QPSK	100	0	22.83	22.72	22.84		
20	16QAM	1	1	22.89	22.84	22.91	24.0	0.0
20	16QAM	1	1	21.35	21.43	21.35	23.0	1.0
20	256QAM	1	1	19.91	19.96	19.87	21.0	3.0
Channel				37150	37600	38000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.87	22.90	22.81	24.0	0.0
Channel				37100	37600	381000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	22.84	22.86	22.81	24.0	0.0
Channel				37050	37600	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.89	22.89	22.57	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				58400	59700	61000		
Frequency (MHz)				2920	2935	2950		
40	PI2 BPSK	1	1	23.40	23.46	23.44		
40	PI2 BPSK	1	108	23.27	23.37	23.31	24.0	0.0
40	PI2 BPSK	1	214	23.33	23.36	23.28		
40	PI2 BPSK	108	0	23.37	23.40	23.32	24.0	0.0
40	PI2 BPSK	108	54	23.27	23.31	23.24	24.0	0.0
40	PI2 BPSK	108	108	23.27	23.32	23.22		
40	PI2 BPSK	216	0	23.30	23.35	23.27		
40	QPSK	1	1	23.22	23.49	23.37		
40	QPSK	1	108	23.28	23.36	23.29	24.0	0.0
40	QPSK	1	214	23.26	23.29	23.19		
40	QPSK	108	0	23.24	23.31	23.28	24.0	0.0
40	QPSK	108	54	23.30	23.39	23.37	24.0	0.0
40	QPSK	108	108	23.24	23.33	23.27		
40	QPSK	216	0	23.25	23.32	23.23	24.0	0.0
40	16QAM	1	1	23.26	23.34	23.28	24.0	0.0
40	64QAM	1	1	22.03	22.10	22.02	23.0	1.0
40	256QAM	1	1	20.57	20.63	20.54	21.0	3.0
Channel				58300	59700	61000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2915	2935	2955		
30	QPSK	1	1	23.16	23.42	23.33	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2912.5	2935	2957.5		
25	QPSK	1	1	23.14	23.45	23.35	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2910	2935	2960		
20	PI2 BPSK	1	1	23.13	23.46	23.33	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2907.5	2935	2962.5		
15	QPSK	1	1	23.14	23.40	23.29	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2905	2935	2965		
10	QPSK	1	1	23.14	23.45	23.31	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				2902.5	2935	2967.5		
5	QPSK	1	1	23.17	23.42	23.34	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				37200	37600	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	22.81	22.85	22.75		
20	PI2 BPSK	1	53	22.88	22.74	22.87	24.0	0.0
20	PI2 BPSK	1	104	22.79	22.81	22.75		
20	PI2 BPSK	50	0	22.70	22.79	22.70	24.0	0.0
20	PI2 BPSK	50	28	22.71	22.75	22.86	24.0	0.0
20	PI2 BPSK	50	56	22.71	22.76	22.72	24.0	0.0
20	PI2 BPSK	100	0	22.76	22.79	22.74		
20	QPSK	1	1	22.82	22.98	22.84		
20	QPSK	1	53	22.71	22.79	22.73	24.0	0.0
20	QPSK	1	104	22.87	22.89	22.81		
20	QPSK	50	0	22.72	22.74	22.89	24.0	0.0
20	QPSK	50	28	22.89	22.75	22.70	24.0	0.0
20	QPSK	50	56	22.83	22.72	22.83	24.0	0.0
20	QPSK	100	0	22.88	22.78	22.71		
20	16QAM	1	1	22.87	22.74	22.85	24.0	0.0
20	64QAM	1	1	21.80	21.65	21.56	23.0	1.0
20	256QAM	1	1	20.09	20.12	20.09	21.0	3.0
Channel				37150	37600	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	22.78	22.89	22.79	24.0	0.0
Channel				37100	37600	382000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	22.75	22.85	22.78	24.0	0.0
Channel				37050	37600	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	22.78	22.84	22.80	24.0	0.0



n30 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				453000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	22.79				
10	PI2 BPSK	1	26	22.75			24.0	0.0
10	PI2 BPSK	1	50	22.67			23.5	0.5
10	PI2 BPSK	25	0	21.59			24.0	0.0
10	PI2 BPSK	25	14	22.04			24.0	0.0
10	PI2 BPSK	25	27	21.73			23.5	0.5
10	PI2 BPSK	50	0	21.52			24.0	0.0
10	QPSK	1	1	22.81			24.0	0.0
10	QPSK	1	26	22.46				
10	QPSK	1	50	22.17				
10	QPSK	25	0	21.83			23.0	1.0
10	QPSK	25	14	22.58			24.0	0.0
10	QPSK	25	27	21.86			23.0	1.0
10	QPSK	50	0	21.42				
10	16QAM	1	1	21.13			23.0	1.0
10	16QAM	1	1	19.75			21.5	2.5
10	256QAM	1	1	19.23			19.5	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	345000	345000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.90	22.97	22.94		
40	PI2 BPSK	1	108	22.78	22.85	22.83	24.0	0.0
40	PI2 BPSK	1	214	22.92	22.95	22.98		
40	PI2 BPSK	108	0	22.83	22.91	22.84	24.0	0.0
40	PI2 BPSK	108	54	22.78	22.82	22.76	24.0	0.0
40	PI2 BPSK	108	108	22.93	22.96	22.90	24.0	0.0
40	PI2 BPSK	216	0	22.82	22.86	22.81		
40	QPSK	1	1	23.05	23.12	22.91		
40	QPSK	1	108	22.80	22.90	22.83	24.0	0.0
40	QPSK	1	214	22.90	22.96	22.87		
40	QPSK	108	0	22.89	22.95	22.86	24.0	0.0
40	QPSK	108	54	22.87	22.99	22.93	24.0	0.0
40	QPSK	108	108	22.87	22.92	22.83	24.0	0.0
40	QPSK	216	0	22.86	22.93	22.90		
40	16QAM	1	1	22.96	23.06	22.98	24.0	0.0
40	16QAM	1	1	21.68	21.71	21.65	23.0	1.0
40	256QAM	1	1	20.00	20.03	19.99	21.0	3.0
Channel				343000	343000	343000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	QPSK	1	1	23.01	23.08	22.83	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	24.0	0.0
20	QPSK	1	1	22.98	23.02	22.83	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	22.86	23.08	22.83	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	24.0	0.0
10	QPSK	1	1	22.96	23.10	22.86	24.0	0.0
Channel				342500	349000	365500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	QPSK	1	1	22.98	23.08	22.86	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345500				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1				23.16	
15	PI2 BPSK	1	40				23.13	
15	PI2 BPSK	1	77				23.10	
15	PI2 BPSK	36	0				23.08	
15	PI2 BPSK	36	22				23.12	24.0
15	PI2 BPSK	36	43				23.04	
15	PI2 BPSK	75	0				23.12	24.0
15	QPSK	1	1				23.23	
15	QPSK	1	40				23.21	24.0
15	QPSK	1	77				22.97	
15	QPSK	36	0				23.12	24.0
15	QPSK	36	22				23.13	24.0
15	QPSK	36	43				23.06	
15	QPSK	75	0				23.10	24.0
15	16QAM	1	1				23.15	24.0
15	16QAM	1	1				21.22	23.0
15	256QAM	1	1				19.86	21.0
Channel				345900	345500	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705	24.0	0.0
10	QPSK	1	1	23.20	23.19	23.19	24.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5	24.0	0.0
5	QPSK	1	1	23.16	23.21	23.14	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.23	23.32	23.29		
100	PI2 BPSK	1	137	23.03	23.08	23.04	24.0	0.0
100	PI2 BPSK	1	271	22.72	22.76	22.67		
100	PI2 BPSK	135	0	23.09	23.17	23.12	24.0	0.0
100	PI2 BPSK	135	69	22.88	22.98	22.90	24.0	0.0
100	PI2 BPSK	135	138	22.65	22.75	22.72	24.0	0.0
100	PI2 BPSK	270	0	22.89	22.94	22.89		
100	QPSK	1	1	23.02	23.35	22.95		
100	QPSK	1	137	22.92	23.01	22.97	24.0	0.0
100	QPSK	1	271	22.64	22.71	22.62		
100	QPSK	135	0	23.01	23.04	22.94	24.0	0.0
100	QPSK	135	69	23.13	23.23	23.15	24.0	0.0
100	QPSK	135	138	22.76	22.79	22.69	24.0	0.0
100	QPSK	270	0	22.94	22.98	22.87	24.0	0.0
100	16QAM	1	1	23.26	23.32	23.28	24.0	0.0
100	16QAM	1	1	22.96	23.02	22.95	24.0	0.0
100	256QAM	1	1	22.28	22.37	22.31	22.5	1.5
Channel								
Frequency (MHz)				50320	518598	533998		
90	QPSK	1	1	22.97	23.32	22.87	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	25.38	25.92	26.49	24.0	0.0
Channel								
Frequency (MHz)				503202	518598	531000		
70	QPSK	1	1	25.31	25.92	26.55	24.0	0.0
Channel								
Frequency (MHz)				503200	518598	531998		
60	QPSK	1	1	22.94	23.30	22.90	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.96	23.31	22.92	24.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2644.98		
40	QPSK	1	1	22.95	23.30	22.92	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	25.11	25.92	26.74	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	25.06	25.92	26.79	24.0	0.0
Channel								
Frequency (MHz)				22.98	23.26	22.93	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	26.28	26.32	26.29		
100	PI2 BPSK	1	137	26.09	26.15	26.10	27.0	0.0
100	PI2 BPSK	1	271	26.20	26.23	26.20		
100	PI2 BPSK	135	0	26.17	26.24	26.20	27.0	0.0
100	PI2 BPSK	135	69	26.07	26.15	26.08	27.0	0.0
100	PI2 BPSK	135	138	26.10	26.14	26.12	27.0	0.0
100	PI2 BPSK	270	0	26.11	26.15	26.06		
100	QPSK	1	1	26.01	26.37	26.07		
100	QPSK	1	137	26.23	26.25	26.22	27.0	0.0
100	QPSK	1	271	26.10	26.15	26.09		
100	QPSK	135	0	25.94	26.01	25.98	27.0	0.0
100	QPSK	135	69	25.99	26.02	25.96	27.0	0.0
100	QPSK	135	138	25.92	25.97	25.91	27.0	0.0
100	QPSK	270	0	25.76	25.85	25.78	27.0	0.0
100	16QAM	1	1	26.02	26.12	26.09	27.0	0.0
100	16QAM	1	1	24.33	24.37	24.32	25.5	1.5
100	256QAM	1	1	22.68	22.73	22.65	23.5	3.5
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.98	26.30	26.05	27.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	25.93	26.33	26.05	27.0	0.0
Channel								
Frequency (MHz)				503202	518598	531000		
70	QPSK	1	1	25.96	26.30	26.00	27.0	0.0
Channel								
Frequency (MHz)				503200	518598	531998		
60	QPSK	1	1	25.96	26.33	26.04	27.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	25.96	26.30	26.03	27.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2644.98		
40	QPSK	1	1	25.94	26.34	25.98	27.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	25.95	26.34	26.03	27.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	25.94	26.25	25.91	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3670	3624.99	3679.98		
40	PI2 BPSK	1	1	23.74	23.87	23.59		
40	PI2 BPSK	1	53	23.71	23.84	23.65	24.5	0.0
40	PI2 BPSK	1	104	23.65	23.82	23.83		
40	PI2 BPSK	50	0	23.32	23.46	23.21	24.0	0.5
40	PI2 BPSK	50	26	23.74	23.88	23.57	24.5	0.0
40	PI2 BPSK	50	56	23.31	23.41	23.19	24.0	0.5
40	PI2 BPSK	100	0	23.24	23.43	23.25		
40	QPSK	1	1	23.78	23.91	23.71		
40	QPSK	1	53	23.71	23.86	23.88	24.5	0.0
40	QPSK	1	104	23.72	23.78	23.62		
40	QPSK	50	0	22.88	22.92	22.78	23.5	1.0
40	QPSK	50	28	23.71	23.78	23.65	24.5	0.0
40	QPSK	50	56	22.78	22.80	22.75	23.5	1.0
40	QPSK	100	0	22.82	22.85	22.88		
40	16QAM	1	1	22.82	22.73	22.73	23.5	1.0
40	16QAM	1	1	21.33	21.44	21.19	22.0	2.5
40	256QAM	1	1	19.99	19.64	19.47	20.0	4.5
Channel								
Frequency (MHz)				637000	641600	645200		
30	QPSK	1	1	23.88	23.83	23.88	24.5	0.0
Channel								
Frequency (MHz)				3200.01	3244.99	3290		
20	QPSK	1	1	23.75	23.82	23.85	24.5	0.0
Channel								
Frequency (MHz)				637000	641600	645332		
10	QPSK	1	1	23.74	23.89	23.81	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.45	23.68	23.68	24.5	0.0
100	PI2 BPSK	1	137	23.41	23.60	23.46		
100	PI2 BPSK	1	271	23.33	23.57	23.41		
100	PI2 BPSK	135	6	23.43	23.53	23.36	24.5	0.0
100	PI2 BPSK	135	69	23.28	23.56	23.41	24.5	0.0
100	PI2 BPSK	135	138	23.25	23.54	23.34	24.5	0.0
100	PI2 BPSK	270	0	23.37	23.48	23.40	24.5	0.0
100	QPSK	1	1	23.53	23.76	23.56		
100	QPSK	1	137	23.45	23.64	23.49		
100	QPSK	1	271	23.40	23.67	23.50	24.5	0.0
100	QPSK	135	0	23.51	23.59	23.46		
100	QPSK	135	69	23.35	23.62	23.44		
100	QPSK	135	138	23.28	23.41	23.41	24.5	0.0
100	QPSK	270	0	23.44	23.50	23.43	24.5	0.0
100	16QAM	1	1	23.20	23.50	23.38		
100	16QAM	1	1	23.38	23.41	23.34		
100	256QAM	1	1	21.88	21.94	21.82	22.5	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.43	23.67	23.48	24.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.43	23.60	23.49	24.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.49	23.71	23.47	24.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.44	23.65	23.48	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.51	23.85	23.54	24.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.47	23.72	23.53	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.45	23.73	23.49	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.49	23.66	23.47	24.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.50	23.67	23.54	24.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.48	23.70	23.53	24.5	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								
Frequency (MHz)								
100	PI2 BPSK	1	1	26.34	26.00	26.40	27.5	0.0
100	PI2 BPSK	1	137	26.35	26.63	26.40		
100	PI2 BPSK	1	271	26.34	26.56	26.39		
100	PI2 BPSK	135	0	26.28	26.59	26.37	27.5	0.0
100	PI2 BPSK	135	69	26.44	26.73	26.52	27.5	0.0
100	PI2 BPSK	135	138	26.42	26.77	26.57	27.5	0.0
100	PI2 BPSK	270	0	26.45	26.77	26.52	27.5	0.0
100	QPSK	1	1	26.62	26.81	26.59		
100	QPSK	1	137	26.46	26.76	26.57		
100	QPSK	1	271	26.49	26.75	26.49	27.5	0.0
100	QPSK	135	0	26.33	26.59	26.37		
100	QPSK	135	69	26.30	26.60	26.40		
100	QPSK	135	138	26.33	26.57	26.40	27.5	0.0
100	QPSK	270	0	26.30	26.58	26.42	27.5	0.0
100	16QAM	1	1	26.34	26.62	26.41		
100	16QAM	1	1	24.77	24.80	24.62		
100	256QAM	1	1	23.05	23.12	23.08	24.0	3.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	26.43	26.77	26.50	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.45	26.76	26.57	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	26.48	26.75	26.50	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.46	26.71	26.50	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.43	26.72	26.54	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.49	26.77	26.51	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.43	26.75	26.51	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.42	26.75	26.49	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.44	26.77	26.51	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.44	26.74	26.54	27.5	0.0

Part270Q n77

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1			23.88	24.5	0.0
100	PI2 BPSK	1	137			23.82		
100	PI2 BPSK	1	271			23.79		
100	PI2 BPSK	135	0			23.83	24.5	0.0
100	PI2 BPSK	135	69			23.77	24.5	0.0
100	PI2 BPSK	135	138			23.75	24.5	0.0
100	PI2 BPSK	270	0			23.72	24.5	0.0
100	QPSK	1	1			23.86		
100	QPSK	1	137			23.88		
100	QPSK	1	271			23.85	24.5	0.0
100	QPSK	135	0			23.71		
100	QPSK	135	69			23.75		
100	QPSK	135	138			23.74	24.5	0.0
100	QPSK	270	0			23.71	24.5	0.0
100	16QAM	1	1			23.88		
100	16QAM	1	1			23.44		
100	256QAM	1	1			22.54	23.0	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.83	23.84	23.80	24.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.79	23.83	23.81	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.80	23.82	23.80	24.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.79	23.78	23.78	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.80	23.84	23.82	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.83	23.81	23.79	24.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.82	23.80	23.83	24.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.79	23.83	23.79	24.5	0.0



Part27Q n77 PC2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	26.87				
100	PI2 BPSK	1	137	26.78			27.5	0.0
100	PI2 BPSK	1	271	26.77				
100	PI2 BPSK	135	0	26.79			27.5	0.0
100	PI2 BPSK	135	69	26.74			27.5	0.0
100	PI2 BPSK	135	138	26.71			27.5	0.0
100	PI2 BPSK	270	0	26.75				
100	QPSK	1	1	26.98			27.5	0.0
100	QPSK	1	137	26.82				
100	QPSK	1	271	26.82				
100	QPSK	135	0	26.77			27.5	0.0
100	QPSK	135	69	26.81			27.5	0.0
100	QPSK	135	138	26.79			27.5	0.0
100	QPSK	270	0	26.75				
100	16QAM	1	1	26.82			27.5	0.0
100	16QAM	1	1	25.12			26.0	1.5
100	256QAM	1	1	23.76			24.0	3.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	26.81	26.89	26.82	27.5	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	26.89	26.83	26.90	27.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3486.01	3500.01	3515.01		
70	QPSK	1	1	26.89	26.87	26.82	27.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	26.81	26.90	26.87	27.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	26.81	26.79	26.81	27.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.89	26.87	26.81	27.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	26.89	26.88	26.87	27.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.89	26.89	26.85	27.5	0.0
Channel				630334	633334	636168		
Frequency (MHz)				3455.01	3500.01	3545.02		
15	QPSK	1	1	26.83	26.87	26.83	27.5	0.0
Channel				630000	633334	636334		
Frequency (MHz)				3450.01	3500.01	3545.01		
10	QPSK	1	1	26.87	26.89	26.86	27.5	0.0

Part27O n78

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	23.42				
100	PI2 BPSK	1	137	23.45			25.0	0.0
100	PI2 BPSK	1	271	23.41				
100	PI2 BPSK	135	0	23.02			24.5	0.5
100	PI2 BPSK	135	69	23.41			24.5	0.0
100	PI2 BPSK	135	138	23.01			24.5	0.5
100	PI2 BPSK	270	0	22.98				
100	QPSK	1	1	23.47			25.0	0.0
100	QPSK	1	137	23.45				
100	QPSK	1	271	23.41				
100	QPSK	135	0	22.50			24.0	1.0
100	QPSK	135	69	23.42			25.0	0.0
100	QPSK	135	138	22.46			24.0	1.0
100	QPSK	270	0	22.45				
100	16QAM	1	1	22.52			24.0	1.0
100	16QAM	1	1	20.88			22.5	2.5
100	256QAM	1	1	19.11			20.5	4.5
Channel				648868	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.33	23.35	23.38	25.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	23.40	23.41	23.31	25.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.41	23.43	23.41	25.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	23.35	23.40	23.38	25.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.35	23.34	23.37	25.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.38	23.37	23.42	25.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.37	23.38	23.35	25.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.37	23.42	23.35	25.0	0.0
Channel				647000	650000	652934		
Frequency (MHz)				3705.02	3750	3795.01		
15	QPSK	1	1	23.35	23.33	23.39	25.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	23.40	23.31	23.36	25.0	0.0

Part27Q n78

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	23.97				
100	PI2 BPSK	1	137	23.91			25.0	0.0
100	PI2 BPSK	1	271	23.95				
100	PI2 BPSK	135	0	23.56			24.5	0.5
100	PI2 BPSK	135	69	23.51			25.0	0.0
100	PI2 BPSK	135	138	23.52			24.5	0.5
100	PI2 BPSK	270	0	23.51				
100	QPSK	1	1	24.01			25.0	0.0
100	QPSK	1	137	23.88				
100	QPSK	1	271	23.82				
100	QPSK	135	0	23.07			24.0	1.0
100	QPSK	135	69	23.98			25.0	0.0
100	QPSK	135	138	23.95			24.0	1.0
100	QPSK	270	0	23.95				
100	16QAM	1	1	23.00			24.0	1.0
100	16QAM	1	1	21.28			22.5	2.5
100	256QAM	1	1	19.70			20.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.92	23.94	23.92	25.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	23.02	23.99	23.92	25.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3486.01	3500.01	3515.01		
70	QPSK	1	1	23.88	23.88	23.97	25.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	23.93	23.96	23.96	25.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.90	23.91	23.88	25.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.95	23.92	23.96	25.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.87	23.86	23.86	25.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.91	23.90	23.86	25.0	0.0
Channel				630334	633334	636168		
Frequency (MHz)				3455.01	3500.01	3545.01		
15	QPSK	1	1	23.89	23.94	23.92	25.0	0.0
Channel				630000	633334	636334		
Frequency (MHz)				3450.01	3500.01	3545.01		
10	QPSK	1	1	23.93	23.91	23.92	25.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	24.41	24.80	24.58		
40	PI2 BPSK	1	53	24.36	24.70	24.57	25.5	0.0
40	PI2 BPSK	1	104	24.40	24.78	24.58		
40	PI2 BPSK	50	0	24.31	24.34	24.28	25.0	0.5
40	PI2 BPSK	50	28	24.37	24.75	24.53	25.5	0.0
40	PI2 BPSK	50	56	23.98	24.30	24.17	25.0	0.5
40	PI2 BPSK	100	0	23.99	24.32	24.07		
40	QPSK	1	1	24.47	24.62	24.62		
40	QPSK	1	53	24.34	24.69	24.55	25.5	0.0
40	QPSK	1	104	24.45	24.73	24.49		
40	QPSK	50	0	23.81	23.84	23.77	24.5	1.0
40	QPSK	50	28	24.38	24.79	24.55	25.5	0.0
40	QPSK	50	56	23.48	23.86	23.69	24.5	1.0
40	QPSK	100	0	23.46	23.87	23.63		
40	16QAM	1	1	23.49	23.97	23.60	24.5	1.0
40	64QAM	1	1	21.88	21.97	21.82	23.0	2.5
40	256QAM	1	1	20.49	20.53	20.48	21.0	4.5
Channel								
Frequency (MHz)				3555.02	3624.99	3684.99		
30	QPSK	1	1	24.37	24.69	24.48	25.5	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
20	QPSK	1	1	24.35	24.72	24.56	25.5	0.0
Channel								
Frequency (MHz)				3655	3624.99	3684.98		
10	QPSK	1	1	24.44	24.74	24.50	25.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	24.22	24.34	24.32		
100	PI2 BPSK	1	137	24.35	24.44	23.96	25.0	0.0
100	PI2 BPSK	1	271	24.39	24.39	23.92		
100	PI2 BPSK	135	0	24.27	24.34	23.93	25.0	0.0
100	PI2 BPSK	135	69	24.24	24.29	23.84	25.0	0.0
100	PI2 BPSK	135	138	24.26	24.30	23.89	25.0	0.0
100	PI2 BPSK	270	0	24.32	24.29	23.87		
100	QPSK	1	1	24.42	24.48	24.04		
100	QPSK	1	137	24.31	24.35	24.01	25.0	0.0
100	QPSK	1	271	24.29	24.43	23.99		
100	QPSK	135	0	24.25	24.33	24.26	25.0	0.0
100	QPSK	135	69	24.31	24.45	23.97	25.0	0.0
100	QPSK	135	138	24.30	24.44	23.99	25.0	0.0
100	QPSK	270	0	24.38	24.35	23.84		
100	16QAM	1	1	23.88	24.01	23.78	25.0	0.0
100	64QAM	1	1	23.58	23.68	23.59	25.0	0.0
100	256QAM	1	1	23.31	23.35	23.15	23.5	1.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	24.31	24.41	23.96	25.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	24.01	24.00	24.02	25.0	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	24.36	24.44	23.91	25.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	24.28	24.42	23.93	25.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	24.32	24.44	23.97	25.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	24.39	24.36	23.93	25.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	24.29	24.42	23.92	25.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	24.37	24.36	23.92	25.0	0.0
Channel								
Frequency (MHz)				647168	656000	664834		
15	QPSK	1	1	24.36	24.44	23.90	25.0	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	24.35	24.38	23.91	25.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	27.15	27.18	27.08		
100	PI2 BPSK	1	137	27.11	27.12	27.03	28.0	0.0
100	PI2 BPSK	1	271	27.13	27.05	27.05		
100	PI2 BPSK	135	0	27.15	27.26	27.16	28.0	0.0
100	PI2 BPSK	135	69	27.07	27.21	27.07	28.0	0.0
100	PI2 BPSK	135	138	27.03	27.18	27.02	28.0	0.0
100	PI2 BPSK	270	0	27.07	27.14	27.13		
100	QPSK	1	1	27.15	27.39	26.98		
100	QPSK	1	137	27.10	27.34	26.92	28.0	0.0
100	QPSK	1	271	27.08	27.36	26.87		
100	QPSK	135	0	27.05	27.15	27.06	28.0	0.0
100	QPSK	135	69	27.10	27.30	26.87	28.0	0.0
100	QPSK	135	138	27.03	27.25	26.94	28.0	0.0
100	QPSK	270	0	27.06	27.23	26.90		
100	16QAM	1	1	26.88	26.71	26.55	28.0	0.0
100	64QAM	1	1	26.15	26.30	26.16	26.5	1.5
100	256QAM	1	1	23.64	23.73	23.68	24.5	3.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	27.04	27.26	26.86	28.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	27.08	27.26	26.87	28.0	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	27.13	27.36	26.89	28.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	27.08	27.34	26.91	28.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	27.08	27.37	26.87	28.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	27.08	27.29	26.89	28.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	27.09	27.27	26.85	28.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	27.09	27.30	26.91	28.0	0.0
Channel								
Frequency (MHz)				647168	656000	664834		
15	QPSK	1	1	27.13	27.36	26.88	28.0	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	27.04	27.35	26.86	28.0	0.0



Part27Q n77 Main PA 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				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	24.42	24.42				
100	PI2 BPSK	1	137	24.36	24.36		25.0	0.0	
100	PI2 BPSK	1	271	24.31	24.31		25.0	0.0	
100	PI2 BPSK	135	0	24.38	24.38		25.0	0.0	
100	PI2 BPSK	135	69	24.32	24.32		25.0	0.0	
100	PI2 BPSK	135	138	24.25	24.25		25.0	0.0	
100	PI2 BPSK	270	0	24.31	24.31		25.0	0.0	
100	QPSK	1	1	24.45	24.45				
100	QPSK	1	137	24.41	24.41		25.0	0.0	
100	QPSK	1	271	24.35	24.35				
100	QPSK	135	0	24.35	24.35		25.0	0.0	
100	QPSK	135	69	24.38	24.38		25.0	0.0	
100	QPSK	135	138	24.29	24.29		25.0	0.0	
100	QPSK	270	0	24.35	24.35		25.0	0.0	
100	16QAM	1	1	24.30	24.30		25.0	0.0	
100	64QAM	1	1	23.87	23.87		24.5	0.5	
100	256QAM	1	1	22.12	22.12		22.5	2.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	24.34	24.42	24.42	25.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	24.42	24.35	24.30	25.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	24.43	24.41	24.41	25.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.00			
60	QPSK	1	1	24.32	24.38	24.42	25.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	24.34	24.35	24.41	25.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	24.33	24.40	24.32	25.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	24.34	24.31	24.35	25.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	24.33	24.31	24.38	25.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.50			
15	QPSK	1	1	24.37	24.40	24.42	25.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	24.42	24.36	24.34	25.0	0.0	

Part27Q n77 PC2 Main PA 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				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	27.33	27.33				
100	PI2 BPSK	1	137	27.26	27.26		28.0	0.0	
100	PI2 BPSK	1	271	27.24	27.24		28.0	0.0	
100	PI2 BPSK	135	0	27.28	27.28		28.0	0.0	
100	PI2 BPSK	135	69	27.25	27.25		28.0	0.0	
100	PI2 BPSK	135	138	27.10	27.10		28.0	0.0	
100	PI2 BPSK	270	0	27.15	27.15		28.0	0.0	
100	QPSK	1	1	27.37	27.37				
100	QPSK	1	137	27.31	27.31		28.0	0.0	
100	QPSK	1	271	27.28	27.28				
100	QPSK	135	0	27.31	27.31		28.0	0.0	
100	QPSK	135	69	27.32	27.32		28.0	0.0	
100	QPSK	135	138	27.29	27.29		28.0	0.0	
100	QPSK	270	0	27.25	27.25		28.0	0.0	
100	16QAM	1	1	27.28	27.28		28.0	0.0	
100	64QAM	1	1	25.75	25.75		26.5	1.5	
100	256QAM	1	1	23.32	23.32		24.5	3.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	27.25	27.16	27.23	28.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	27.27	27.17	27.17	28.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	27.21	27.22	27.27	28.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.00			
60	QPSK	1	1	27.16	27.26	27.16	28.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	27.22	27.17	27.27	28.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	27.26	27.17	27.16	28.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	27.17	27.24	27.22	28.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	27.27	27.27	27.23	28.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.50			
15	QPSK	1	1	27.28	27.20	27.17	28.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	27.18	27.28	27.24	28.0	0.0	



Part270 n78 Main PA 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	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1		23.90				
100	PI/2 BPSK	1	137		23.75		25.0	0.0	
100	PI/2 BPSK	1	271		23.75				
100	PI/2 BPSK	135	0		23.53		24.5	0.5	
100	PI/2 BPSK	135	69		23.51		25.0	0.0	
100	PI/2 BPSK	135	138		23.48		24.5	0.5	
100	PI/2 BPSK	270	0		23.48				
100	QPSK	1	1		24.21				
100	QPSK	1	137		24.12		25.0	0.0	
100	QPSK	1	271		24.09				
100	QPSK	135	0		23.03		24.0	1.0	
100	QPSK	135	69		24.14		25.0	0.0	
100	QPSK	135	138		23.04		24.0	1.0	
100	QPSK	270	0		23.08				
100	16QAM	1	1		23.37		24.0	1.0	
100	64QAM	1	1		21.21		22.5	2.5	
100	256QAM	1	1		19.59		20.5	4.5	
Channel				650000					
Frequency (MHz)				649988			650012		
Frequency (MHz)				3745.02			3750	3755.01	
90	QPSK	1	1		24.02	24.08	24.06	25.0	0.0
Channel				649334			650000	650668	
Frequency (MHz)				3740.01			3750	3760.02	
80	QPSK	1	1		24.10	24.08	24.02	25.0	0.0
Channel				649000			650000	651000	
Frequency (MHz)				3735			3750	3765	
70	QPSK	1	1		24.05	24.09	24.11	25.0	0.0
Channel				648668			650000	651334	
Frequency (MHz)				3730.02			3750	3770.01	
60	QPSK	1	1		24.07	24.09	24.11	25.0	0.0
Channel				648334			650000	651668	
Frequency (MHz)				3725.01			3750	3775.02	
50	QPSK	1	1		24.00	24.08	24.07	25.0	0.0
Channel				648000			650000	652000	
Frequency (MHz)				3720			3750	3780	
40	QPSK	1	1		24.02	24.11	24.11	25.0	0.0
Channel				647668			650000	652334	
Frequency (MHz)				3715.02			3750	3765.01	
30	QPSK	1	1		24.00	24.04	24.03	25.0	0.0
Channel				647334			650000	652668	
Frequency (MHz)				3710.01			3750	3780.02	
20	QPSK	1	1		24.10	24.04	24.10	25.0	0.0
Channel				647168			650000	652834	
Frequency (MHz)				3707.52			3750	3782.51	
15	QPSK	1	1		24.11	24.00	24.07	25.0	0.0
Channel				647000			650000	653000	
Frequency (MHz)				3705			3750	3795	
10	QPSK	1	1		24.03	24.04	24.06	25.0	0.0

Part27Q n78 Main PA 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	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		24.36				
100	PI/2 BPSK	1	137		24.25		25.0	0.0	
100	PI/2 BPSK	1	271		24.19				
100	PI/2 BPSK	135	0		24.03		24.5	0.5	
100	PI/2 BPSK	135	69		24.02		25.0	0.0	
100	PI/2 BPSK	135	138		23.95		24.5	0.5	
100	PI/2 BPSK	270	0		23.91				
100	QPSK	1	1		24.45				
100	QPSK	1	137		24.41		25.0	0.0	
100	QPSK	1	271		24.35				
100	QPSK	135	0		23.51		24.0	1.0	
100	QPSK	135	69		24.39		25.0	0.0	
100	QPSK	135	138		23.45		24.0	1.0	
100	QPSK	270	0		23.35				
100	16QAM	1	1		23.81		24.0	1.0	
100	64QAM	1	1		21.80		22.5	2.5	
100	256QAM	1	1		20.21		20.5	4.5	
Channel				633000			633334	633668	
Frequency (MHz)				3495			3500.01	3505.02	
90	QPSK	1	1		24.35	24.31	24.29	25.0	0.0
Channel				632668			633334	634000	
Frequency (MHz)				3490.02			3500.01	3510	
80	QPSK	1	1		24.23	24.29	24.30	25.0	0.0
Channel				632334			633334	634334	
Frequency (MHz)				3485.01			3500.01	3515.01	
70	QPSK	1	1		24.28	24.31	24.31	25.0	0.0
Channel				632000			633334	634668	
Frequency (MHz)				3480			3500.01	3520.02	
60	QPSK	1	1		24.29	24.24	24.25	25.0	0.0
Channel				631668			633334	635000	
Frequency (MHz)				3475.02			3500.01	3525	
50	QPSK	1	1		24.34	24.28	24.31	25.0	0.0
Channel				631334			633334	635334	
Frequency (MHz)				3470.01			3500.01	3530.01	
40	QPSK	1	1		24.35	24.25	24.32	25.0	0.0
Channel				631000			633334	635668	
Frequency (MHz)				3465			3500.01	3535.02	
30	QPSK	1	1		24.34	24.24	24.27	25.0	0.0
Channel				630668			633334	636000	
Frequency (MHz)				3460.02			3500.01	3540	
20	QPSK	1	1		24.30	24.31	24.28	25.0	0.0
Channel				630500			633334	636168	
Frequency (MHz)				3457.5			3500.01	3542.82	
15	QPSK	1	1		24.29	24.27	24.31	25.0	0.0
Channel				630334			633334	636334	
Frequency (MHz)				3455.01			3500.01	3545.01	
10	QPSK	1	1		24.25	24.33	24.35	25.0	0.0



WiFi/Bluetooth Power

Table with 20 columns: Mode, Channel, Frequency (MHz), Average power (dBm), Time-Up Limit, and 16 sub-headers for various power limits (e.g., Avg 4-Ful power, Avg 4-Ful power, etc.). Rows include 802.11a, 802.11g, 802.11n, 802.11ac, and 802.11ad MCS0-9.

Table with 20 columns: Mode, Channel, Frequency (MHz), Average power (dBm), Time-Up Limit, and 16 sub-headers for various power limits. Rows include 802.11a, 802.11n, 802.11ac, and 802.11ad MCS0-9.

Table with 20 columns: Mode, Channel, Frequency (MHz), Average power (dBm), Time-Up Limit, and 16 sub-headers for various power limits. Rows include 802.11a, 802.11n, 802.11ac, and 802.11ad MCS0-9.

Table with 20 columns: Mode, Channel, Frequency (MHz), Average power (dBm), Time-Up Limit, and 16 sub-headers for various power limits. Rows include 802.11a, 802.11n, 802.11ac, and 802.11ad MCS0-9.

Table with 20 columns: Mode, Channel, Frequency (MHz), Average power (dBm), Time-Up Limit, and 16 sub-headers for various power limits. Rows include 802.11a, 802.11n, 802.11ac, and 802.11ad MCS0-9.

Table with 20 columns: Mode, Channel, Frequency (MHz), Average power (dBm), Time-Up Limit, and 16 sub-headers for various power limits. Rows include 802.11a, 802.11n, 802.11ac, and 802.11ad MCS0-9.



WiFi&Bluetooth Power

2.4GHz WLAN				Ant 4 Extremity non-DBS Simulation		Ant 5 Extremity non-DBS Simulation		Ant 4+5 Extremity non-DBS Simulation		Ant 4 Extremity DBS Simulation		Ant 5 Extremity DBS Simulation		Ant 4+5 Extremity DBS Simulation		Duty Cycle %
Mode	Channel	Frequency (MHz)	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 @Mbps	1	2412	17.69	19.00	17.08	18.50	20.48	22.00	14.83	16.00	14.08	15.50	17.41	19.00	100	
	6	2437	17.60	19.00	17.00	18.50	20.30	22.00	14.50	16.00	14.12	15.50	17.28	19.00		
802.11g @Mbps	11	2427	17.26	19.00	17.13	18.50	20.38	22.00	14.50	16.00	14.17	15.50	17.26	19.00	99.31	
	6	2437	18.00	19.00	18.50	22.00	22.00	16.00	16.00	15.50	16.00	16.00	16.00	16.00		
802.11n HT40 MCS0	11	2427	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00	100	
	6	2437	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00		
802.11n HT40 MCS9	11	2427	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00	100	
	6	2437	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00		
802.11ac HE40 MCS0	1	2412	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00	100	
	6	2437	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00		
802.11ac HE40 MCS9	11	2427	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00	100	
	6	2437	19.00	20.00	19.00	20.00	20.00	20.00	16.00	16.00	15.50	16.00	16.00	16.00		

2.5GHz WLAN				Ant 4 Extremity non-DBS Simulation		Ant 4+5 Extremity non-DBS Simulation		Ant 4 Extremity DBS Simulation		Ant 5 Extremity DBS Simulation		Ant 4+5 Extremity DBS Simulation		Duty Cycle %	
Mode	Channel	Frequency (MHz)	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 @Mbps	36	5160	19.00	19.00	19.00	20.50	19.00	19.00	19.00	22.50	16.50	16.00	16.00	99.92	
	40	5200	20.00	20.00	19.50	23.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00		
802.11n HT20 MCS0	44	5200	19.00	20.00	19.00	20.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00	100	
	36	5160	19.00	20.00	19.00	20.00	19.00	19.00	22.50	16.50	16.00	16.00	16.00		
802.11n HT40 MCS0	44	5200	19.00	20.00	19.00	20.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00	100	
	36	5160	17.45	18.00	16.94	18.00	20.21	22.07	17.45	18.00	20.21	22.07	16.50		16.00
802.11ac VHT80 MCS0	44	5200	18.02	20.00	18.16	21.00	23.00	19.72	19.00	19.00	20.72	22.00	16.50	16.00	100
	36	5160	20.50	20.50	20.00	23.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00		
802.11ac VHT80 MCS9	44	5200	20.00	20.00	20.00	23.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00	100	
	36	5160	19.00	20.00	18.50	22.50	19.00	19.00	22.50	16.50	16.00	16.00	16.00		
802.11ac VHT80 MCS9	44	5200	19.00	20.00	19.00	20.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00	100	
	36	5160	19.00	20.00	18.50	22.50	19.00	19.00	22.50	16.50	16.00	16.00	16.00		
802.11ac VHT80 MCS9	44	5200	19.00	20.00	19.00	20.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00	100	
	36	5160	19.00	20.00	18.50	22.50	19.00	19.00	22.50	16.50	16.00	16.00	16.00		
802.11ac VHT80 MCS9	44	5200	19.00	20.00	19.00	20.00	19.00	19.00	19.00	22.50	16.50	16.00	16.00	100	
	36	5160	19.00	20.00	18.50	22.50	19.00	19.00	22.50	16.50	16.00	16.00	16.00		

2.5GHz WLAN				Ant 4 Extremity non-DBS Simulation		Ant 4+5 Extremity non-DBS Simulation		Ant 4 Extremity DBS Simulation		Ant 5 Extremity DBS Simulation		Ant 4+5 Extremity DBS Simulation		Duty Cycle %
Mode	Channel	Frequency (MHz)	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)	
802.11a @Mbps	52	5200	19.00	19.00	19.00	22.50	18.00	17.50	21.00	15.50	14.50	14.50	16.00	99.92
	56	5280	20.00	20.00	19.50	23.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	
802.11n HT20 MCS0	56	5280	19.00	20.00	19.00	20.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	100
	52	5200	19.00	20.00	19.00	20.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	
802.11n HT40 MCS0	56	5280	19.00	20.00	19.00	20.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	100
	52	5200	18.90	20.00	18.40	20.00	18.07	21.00	15.50	14.50	14.50	16.00	16.00	
802.11ac VHT80 MCS0	56	5280	18.99	20.00	17.97	21.00	23.00	18.00	17.50	21.00	15.50	14.50	14.50	100
	52	5200	20.50	20.50	20.00	23.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	
802.11ac VHT80 MCS9	56	5280	20.00	20.00	20.00	23.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	100
	52	5200	19.00	20.00	18.50	22.50	19.00	17.50	21.00	15.50	14.50	14.50	16.00	
802.11ac VHT80 MCS9	56	5280	19.00	20.00	19.00	20.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	100
	52	5200	19.00	20.00	18.50	22.50	19.00	17.50	21.00	15.50	14.50	14.50	16.00	
802.11ac VHT80 MCS9	56	5280	19.00	20.00	19.00	20.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	100
	52	5200	19.00	20.00	18.50	22.50	19.00	17.50	21.00	15.50	14.50	14.50	16.00	
802.11ac VHT80 MCS9	56	5280	19.00	20.00	19.00	20.00	18.00	17.50	21.00	15.50	14.50	14.50	16.00	100
	52	5200	19.00	20.00	18.50	22.50	19.00	17.50	21.00	15.50	14.50	14.50	16.00	

5.5GHz WLAN				Ant 5 Extremity non-DBS Simulation		Ant 4 Extremity non-DBS Simulation		Ant 4+5 Extremity non-DBS Simulation		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit		
802.11a @Mbps	106	5000	13.00	13.00	13.00	13.00	13.00	13.00	99.92	
	116	5080	13.00	13.00	13.00	13.00	13.00			
	124	5160	13.00	13.00	13.00	13.00	13.00			
	132	5240	13.00	13.00	13.00	13.00	13.00			
802.11n HT20 MCS0	140	5160	13.00	13.00	13.00	13.00	13.00	13.00	100	
	144	5200	13.00	13.00	13.00	13.00	13.00			
	148	5240	13.00	13.00	13.00	13.00	13.00			
	152	5280	13.00	13.00	13.00	13.00	13.00			
802.11n HT40 MCS0	156	5320	13.00	13.00	13.00	13.00	13.00	13.00	100	
	160	5360	13.00	13.00	13.00	13.00	13.00			
	164	5400	13.00	13.00	13.00	13.00	13.00			
	168	5440	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS0	172	5480	13.00	13.00	13.00	13.00	13.00	13.00	100	
	176	5520	13.00	13.00	13.00	13.00	13.00			
	180	5560	13.00	13.00	13.00	13.00	13.00			
	184	5600	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	188	5640	11.62	13.00	10.80	12.00	14.40	16.00	100	
	192	5680	11.96	13.00	10.87	12.00	14.48	16.00		
	196	5720	11.91	13.00	11.04	12.00	14.56	16.00		
	200	5760	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	204	5800	13.00	13.00	13.00	13.00	13.00	13.00	100	
	208	5840	13.00	13.00	13.00	13.00	13.00			
	212	5880	13.00	13.00	13.00	13.00	13.00			
	216	5920	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	220	5960	13.00	13.00	13.00	13.00	13.00	13.00	100	
	224	6000	13.00	13.00	13.00	13.00	13.00			
	228	6040	13.00	13.00	13.00	13.00	13.00			
	232	6080	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	236	6120	13.00	13.00	13.00	13.00	13.00	13.00	100	
	240	6160	13.00	13.00	13.00	13.00	13.00			
	244	6200	13.00	13.00	13.00	13.00	13.00			
	248	6240	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	252	6280	13.00	13.00	13.00	13.00	13.00	13.00	100	
	256	6320	13.00	13.00	13.00	13.00	13.00			
	260	6360	13.00	13.00	13.00	13.00	13.00			
	264	6400	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	268	6440	13.00	13.00	13.00	13.00	13.00	13.00	100	
	272	6480	13.00	13.00	13.00	13.00	13.00			
	276	6520	13.00	13.00	13.00	13.00	13.00			
	280	6560	13.00	13.00	13.00	13.00	13.00			
802.11ac VHT80 MCS9	284	6600								

BR / EDR Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit (MHz)
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.58	16.00	16.39	17.50
	CH 39	2441	17.51	17.41	17.38	18.50
	CH 78	2480	16.13	16.14	16.03	17.50

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit (MHz)
LE	CH 00	2402	7.71	8.50
	CH 19	2440	8.15	8.50
	CH 39	2480	6.56	8.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit (MHz)
LE	CH 00	2402	7.61	8.50
	CH 19	2440	8.28	8.50
	CH 39	2480	6.70	8.00

BR / EDR Ant 4 For Head simultaneous

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit (MHz)
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	6.73	4.86	4.78	7.50
	CH 39	2441	7.37	5.07	4.79	8.50
	CH 78	2480	6.79	4.94	4.65	8.00

BR / EDR Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit (MHz)
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.48	16.41	16.36	17.50
	CH 39	2441	16.24	16.20	16.15	17.50
	CH 78	2480	14.52	14.12	14.37	15.50

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit (MHz)
LE	CH 00	2402	8.15	8.50
	CH 19	2440	7.00	8.50
	CH 39	2480	5.86	7.50

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Limit (MHz)
LE	CH 00	2402	8.05	8.50
	CH 19	2440	6.98	8.50
	CH 39	2480	5.90	7.50

BR / EDR Ant 6 For Head simultaneous

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit (MHz)
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	7.58	5.38	5.18	8.50
	CH 39	2441	6.72	5.18	4.40	7.50
	CH 78	2480	5.60	3.80	3.44	6.50