



Part270 n77 Main PA Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	16.75	16.73	16.70	18.2	0.0	
100	PI2 BPSK	1	137	16.68	16.78	16.77			
100	PI2 BPSK	1	271	16.69	16.79	16.70			
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	138	16.63	16.65	16.72	18.2	0.0	
100	PI2 BPSK	270	0	16.59	16.73	16.81			
100	QPSK	1	1	16.76	16.67	16.80			
100	QPSK	1	137	16.68	16.74	16.70	18.2	0.0	
100	QPSK	1	271	16.76	16.73	16.76	18.2	0.0	
100	QPSK	135	0	16.72	16.71	16.66			
100	QPSK	135	69	16.72	16.81	16.70			
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			
100	64QAM	1	1	16.76	16.73	16.71			
100	256QAM	1	1	16.72	16.74	16.65	18.2	0.0	
Channel				649688	650000	662334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.24	16.27	16.26	18.2	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3748.01	3840	3943.02			
80	QPSK	1	1	15.23	16.31	16.21	18.2	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.23	16.30	16.25	18.2	0.0	
Channel				649000	650000	663334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.25	16.31	16.22	18.2	0.0	
Channel				649334	650000	663668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.25	16.32	16.21	18.2	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.24	16.31	16.25	18.2	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.24	16.30	16.22	18.2	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.21	16.31	16.24	18.2	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.62	3840	3972.51			
15	QPSK	1	1	16.25	16.31	16.26	18.2	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.24	16.29	16.23	18.2	0.0	

Part270 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.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	19.69	19.75	19.59	21.2	0.0	
100	PI2 BPSK	1	137	19.69	19.80	19.76			
100	PI2 BPSK	1	271	19.68	19.73	19.66			
100	PI2 BPSK	135	0	19.71	19.79	19.80	21.2	0.0	
100	PI2 BPSK	135	69	19.67	19.74	19.71	21.2	0.0	
100	PI2 BPSK	135	138	19.63	19.70	19.66	21.2	0.0	
100	PI2 BPSK	270	0	19.66	19.76	19.83			
100	QPSK	1	1	19.78	19.90	19.75			
100	QPSK	1	137	19.70	19.82	19.76	21.2	0.0	
100	QPSK	1	271	19.67	19.67	19.74	21.2	0.0	
100	QPSK	135	0	19.73	19.71	19.67			
100	QPSK	135	69	19.74	19.84	19.75			
100	QPSK	135	138	19.68	19.76	19.72	21.2	0.0	
100	QPSK	270	0	19.66	19.84	19.68	21.2	0.0	
100	16QAM	1	1	19.67	19.80	19.69			
100	64QAM	1	1	19.76	19.74	19.73			
100	256QAM	1	1	19.71	19.66	19.84	21.2	0.0	
Channel				649568	650000	662334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.71	19.83	19.61	21.2	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.71	19.82	19.72	21.2	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.66	19.79	19.65	21.2	0.0	
Channel				649000	650000	663334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.65	19.87	19.69	21.2	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.74	19.84	19.71	21.2	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.71	19.82	19.67	21.2	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.67	19.83	19.62	21.2	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.69	19.82	19.66	21.2	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3707.62	3840	3972.51			
15	QPSK	1	1	19.67	19.81	19.71	21.2	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.74	19.87	19.65	21.2	0.0	

Part27Q n77 Main PA Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633334	3500.01				
100	PI2 BPSK	1	1		16.90		18.2		0.0
100	PI2 BPSK	1	137		17.05				
100	PI2 BPSK	1	271		17.20				
100	PI2 BPSK	135	0		16.97		18.2	0.0	
100	PI2 BPSK	135	69		16.88		18.2	0.0	
100	PI2 BPSK	135	138		16.88		18.2	0.0	
100	PI2 BPSK	270	0		17.04				
100	QPSK	1	1		16.98				
100	QPSK	1	137		16.89		18.2	0.0	
100	QPSK	1	271		16.98		18.2	0.0	
100	QPSK	135	0		16.88				
100	QPSK	135	69		16.88				
100	QPSK	135	138		16.98		18.2	0.0	
100	QPSK	270	0		16.92		18.2	0.0	
100	16QAM	1	1		17.05				
100	64QAM	1	1		16.99				
100	256QAM	1	1		16.92		18.2	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	16.86	17.00	16.91	18.2	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	16.88	17.01	16.90	18.2	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	16.85	16.90	16.84	18.2	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	16.86	16.93	16.90	18.2	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	16.88	16.90	16.95	18.2	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	16.93	16.95	16.89	18.2	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3500.01	3536.02			
30	QPSK	1	1	16.95	16.90	16.92	18.2	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	16.95	17.00	16.91	18.2	0.0	
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	16.89	17.01	16.96	18.2	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
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.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		19.81		21.2	0.0	
100	PV2 BPSK	1	137		20.01				
100	PV2 BPSK	1	271		19.93				
100	PV2 BPSK	135	0		19.89		21.2	0.0	
100	PV2 BPSK	135	69		19.90		21.2	0.0	
100	PV2 BPSK	135	138		19.90		21.2	0.0	
100	PV2 BPSK	270	0		19.94		21.2	0.0	
100	QPSK	1	1		20.09		21.2	0.0	
100	QPSK	1	137		19.89				
100	QPSK	1	271		19.88				
100	QPSK	135	0		19.86		21.2	0.0	
100	QPSK	135	69		20.00		21.2	0.0	
100	QPSK	135	138		19.88		21.2	0.0	
100	QPSK	270	0		19.90		21.2	0.0	
100	16QAM	1	1		20.03		21.2	0.0	
100	64QAM	1	1		19.85		21.2	0.0	
100	256QAM	1	1		19.91		21.2	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dB)	(dB)	
90	QPSK	1	1		19.88	19.95	19.81	21.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510.01	(dB)	(dB)	
80	QPSK	1	1		19.12	19.96	19.84	21.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	(dB)	
70	QPSK	1	1		19.06	19.93	19.84	21.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dB)	(dB)	
60	QPSK	1	1		19.90	19.99	19.81	21.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dB)	(dB)	
50	QPSK	1	1		19.86	19.99	19.81	21.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	(dB)	
40	QPSK	1	1		19.81	19.92	19.80	21.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dB)	(dB)	
30	QPSK	1	1		19.82	20.01	19.82	21.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dB)	(dB)	
20	QPSK	1	1		19.90	19.94	19.90	21.2	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	(dB)	
15	QPSK	1	1		19.84	20.01	19.81	21.2	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	(dB)	
10	QPSK	1	1		19.80	19.95	19.90	21.2	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000					
Frequency (MHz)				3750		3750			
100	PV2 BPSK	1	1		16.65		18.2	0.0	
100	PV2 BPSK	1	137		16.63				
100	PV2 BPSK	1	271		16.66				
100	PV2 BPSK	135	0		16.68		18.2	0.0	
100	PV2 BPSK	135	69		16.59		18.2	0.0	
100	PV2 BPSK	135	138		16.70		18.2	0.0	
100	PV2 BPSK	270	0		16.62		18.2	0.0	
100	QPSK	1	1		16.85		18.2	0.0	
100	QPSK	1	137		16.84				
100	QPSK	1	271		16.66				
100	QPSK	135	0		16.69		18.2	0.0	
100	QPSK	135	69		16.75		18.2	0.0	
100	QPSK	135	138		16.65		18.2	0.0	
100	QPSK	270	0		16.65		18.2	0.0	
100	16QAM	1	1		16.85		18.2	0.0	
100	64QAM	1	1		16.67		18.2	0.0	
100	256QAM	1	1		16.58		18.2	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dB)	(dB)	
90	QPSK	1	1		16.58	16.78	16.67	18.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)	(dB)	
80	QPSK	1	1		16.51	16.80	16.60	18.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765	(dB)	(dB)	
70	QPSK	1	1		16.57	16.77	16.67	18.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dB)	(dB)	
60	QPSK	1	1		16.46	16.78	16.67	18.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)	(dB)	
50	QPSK	1	1		16.49	16.77	16.68	18.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780	(dB)	(dB)	
40	QPSK	1	1		16.47	16.76	16.67	18.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dB)	(dB)	
30	QPSK	1	1		16.54	16.72	16.68	18.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)	(dB)	
20	QPSK	1	1		16.50	16.74	16.65	18.2	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dB)	(dB)	
15	QPSK	1	1		16.46	16.75	16.64	18.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795	(dB)	(dB)	
10	QPSK	1	1		16.53	16.70	16.61	18.2	0.0

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.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		16.91		18.2	0.0	
100	PV2 BPSK	1	137		16.92				
100	PV2 BPSK	1	271		16.89				
100	PV2 BPSK	135	0		16.82		18.2	0.0	
100	PV2 BPSK	135	69		16.84		18.2	0.0	
100	PV2 BPSK	135	138		16.73		18.2	0.0	
100	PV2 BPSK	270	0		16.91		18.2	0.0	
100	QPSK	1	1		16.96		18.2	0.0	
100	QPSK	1	137		16.76				
100	QPSK	1	271		16.86				
100	QPSK	135	0		16.84		18.2	0.0	
100	QPSK	135	69		16.85		18.2	0.0	
100	QPSK	135	138		16.81		18.2	0.0	
100	QPSK	270	0		16.82		18.2	0.0	
100	16QAM	1	1		16.93		18.2	0.0	
100	64QAM	1	1		16.82		18.2	0.0	
100	256QAM	1	1		16.79		18.2	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dB)	(dB)	
90	QPSK	1	1		16.58	16.78	16.58	18.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510.01	(dB)	(dB)	
80	QPSK	1	1		16.53	16.69	16.68	18.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	(dB)	
70	QPSK	1	1		16.52	16.75	16.65	18.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dB)	(dB)	
60	QPSK	1	1		16.54	16.78	16.63	18.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dB)	(dB)	
50	QPSK	1	1		16.53	16.77	16.68	18.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	(dB)	
40	QPSK	1	1		16.16	16.75	16.63	18.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3536.02	(dB)	(dB)	
30	QPSK	1	1		16.14	16.80	16.58	18.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.02	3500.01	3540	(dB)	(dB)	
20	QPSK	1	1		16.52	16.78	16.62	18.2	0.0
Channel				632000	633334	636168	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	(dB)	
15	QPSK	1	1		16.57	16.77	16.61	18.2	0.0
Channel				632334	633334	636334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	(dB)	
10	QPSK	1	1		16.47	16.70	16.66	18.2	0.0

n2 Main PA Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
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	21.68	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	86	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	23.0	0.0
20	QPSK	50	0	21.70	21.79	21.76		
20	QPSK	50	28	21.78	21.83	21.80		
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		
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)								
15	QPSK	1	1	21.77	21.79	21.59	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.76	21.84	21.94	23.0	0.0
Channel								
Frequency (MHz)								
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. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	20.63	20.71	20.88	21.9	0.0
40	PI2 BPSK	1	108	20.58	20.68	20.83		
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	20.68	21.9	0.0
40	PI2 BPSK	216	0	20.61	20.69	20.66		
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	20.86	21.9	0.0
40	QPSK	108	0	20.67	20.72	20.72		
40	QPSK	108	54	20.64	20.74	20.70		
40	QPSK	108	108	20.66	20.69	20.70	21.9	0.0
40	QPSK	216	0	20.61	20.69	20.66	21.9	0.0
40	16QAM	1	1	20.85	20.75	20.74		
40	64QAM	1	1	20.62	20.72	20.89		
40	256QAM	1	1	19.67	19.82	19.79	20.0	1.9
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.57	20.74	20.87	21.9	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.64	20.71	20.68	21.9	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.10	25.35	25.00	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.59	20.72	20.70	21.9	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.66	20.71	20.72	21.9	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	20.63	20.65	20.63	21.9	0.0

n25 Main PA Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376500	Power High Ch. / Freq. 381000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.87	21.95	21.87	23.0	0.0
20	PI2 BPSK	1	53	21.85	21.88	21.81		
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	86	21.67	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	21.96	21.67		
20	QPSK	1	53	21.67	21.77	21.71	23.0	0.0
20	QPSK	1	104	21.71	21.78	21.69	23.0	0.0
20	QPSK	50	0	21.78	21.80	21.76		
20	QPSK	50	28	21.83	21.86	21.81		
20	QPSK	50	56	21.63	21.69	21.64	23.0	0.0
20	QPSK	100	0	21.98	21.77	21.74		
20	16QAM	1	1	21.33	21.39	21.31		
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								
Frequency (MHz)								
15	QPSK	1	1	21.71	21.93	21.84	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.74	21.93	21.84	23.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	21.75	21.86	21.99	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			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				
10	QPSK	1	26	21.56			23.0	0.0
10	QPSK	1	50	21.19			23.0	1.0
10	QPSK	25	0	21.25				
10	QPSK	25	14	21.38				
10	QPSK	25	27	20.93			22.0	1.0
10	QPSK	50	0	20.11				
10	16QAM	1	1	20.05				
10	64QAM	1	1	19.32			20.5	2.5
10	256QAM	1	1	17.50			18.5	4.5
Channel				481500	482000	482500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	23.0	0.0
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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.90	21.98	21.94	23.0	0.0
40	PI2 BPSK	1	108	21.76	21.87	21.78		
40	PI2 BPSK	1	214	21.81	21.88	21.79		
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		
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		
40	QPSK	108	54	22.00	22.08	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		
40	16QAM	1	1	21.84	21.89	21.75		
40	64QAM	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				345000	348000	351000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.87	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	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		
15	QPSK	1	1	21.62	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

n70 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)				1702.5				
15	PI2 BPSK	1	1		22.26		23.0	0.0
15	PI2 BPSK	1	40		22.21			
15	PI2 BPSK	1	77		22.05			
15	PI2 BPSK	36	0		22.21		23.0	0.0
15	PI2 BPSK	36	22		22.18		23.0	0.0
15	PI2 BPSK	36	43		22.09		23.0	0.0
15	PI2 BPSK	75	0		22.15			
15	QPSK	1	1		22.29			
15	QPSK	1	40		22.17		23.0	0.0
15	QPSK	1	77		22.03		23.0	0.0
15	QPSK	36	0		22.16			
15	QPSK	36	22		22.23			
15	QPSK	36	43		22.08		23.0	0.0
15	QPSK	75	0		22.20		23.0	0.0
15	16QAM	1	1		22.26		23.0	0.0
15	64QAM	1	1		20.44		22.0	1.0
15	256QAM	1	1		18.98		20.0	3.0
Channel				340500	345500	341000	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	345500	341500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	22.25	22.23	22.25	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				506202	518596	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.98	19.98	19.95		
100	PI2 BPSK	1	137	19.92	20.06	20.00	21.4	0.0
100	PI2 BPSK	1	271	19.98	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				506200	518596	528000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.92	20.08	20.05	21.4	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2643.01		
80	QPSK	1	1	19.93	20.06	19.97	21.4	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.94	19.93	19.98	21.4	0.0
Channel				505200	518596	531000		
Frequency (MHz)				2528	2592.99	2659.98		
60	QPSK	1	1	19.89	20.06	20.02	21.4	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2644.99		
50	QPSK	1	1	19.90	20.03	19.97	21.4	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.90	20.09	20.02	21.4	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.91	20.05	19.94	21.4	0.0
Channel				501204	518596	535998		
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				509202	518596	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.07	23.23	23.15		
100	PI2 BPSK	1	137	23.08	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		
100	PI2 BPSK	270	0	23.14	23.19	23.12	24.4	0.0
100	QPSK	1	1	23.19	23.28	23.21		
100	QPSK	1	137	23.13	23.18	23.13	24.4	0.0
100	QPSK	1	271	23.06	23.18	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				509200	518598	528000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.05	23.17	23.13	24.4	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2643.01		
80	QPSK	1	1	23.07	23.14	23.13	21.4	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.14	23.20	23.14	24.4	0.0
Channel				505200	518596	531000		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	23.06	23.20	23.18	24.4	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2644.99		
50	QPSK	1	1	23.08	23.25	23.15	24.4	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.16	23.20	23.16	21.4	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.09	23.14	23.06	24.4	0.0
Channel				501204	518596	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.07	23.25	23.07	24.4	0.0

n48 Part96 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				638000	641696	645332		
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				637000	641696	645000		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	22.23	22.37	22.20	24.0	0.0
Channel				637334	641696	648000		
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	22.25	22.30	22.21	24.0	0.0
Channel				637000	641696	646332		
Frequency (MHz)				3555	3624.99	3684.98		
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	22.08	22.08	22.18	23.0	0.0
100	PI2 BPSK	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	135	22.02	22.14	22.03	22.5	0.5
100	PI2 BPSK	270	0	22.03	22.08	21.98		
100	QPSK	1	1	22.23	22.33	22.28	23.0	0.0
100	QPSK	1	137	22.11	22.20	22.12		
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	21.39	21.26		
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	22.25	22.19	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.20	22.26	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	24.12	24.11	26.0	0.0
100	PI2 BPSK	1	137	24.06	24.04	24.04		
100	PI2 BPSK	1	271	24.12	24.06	24.09		
100	PI2 BPSK	135	0	23.63	24.39	23.61	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.04	24.12	26.0	0.0
100	PI2 BPSK	135	135	23.60	24.41	23.61	25.5	0.5
100	PI2 BPSK	270	0	23.70	24.48	23.70		
100	QPSK	1	1	24.21	24.06	24.18	26.0	0.0
100	QPSK	1	137	24.10	24.64	24.11		
100	QPSK	1	271	24.10	24.03	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	24.01	24.85	24.05	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.13	24.04	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	24.06	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	24.90	24.04	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.05	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.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.72	21.88	21.81	23.0	0.0
100	PI2 BPSK	1	137	21.81	21.91	21.85		
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	135	21.86	21.92	21.87	22.5	0.5
100	PI2 BPSK	270	0	21.83	21.88	21.82		
100	QPSK	1	1	21.81	21.94	21.91	23.0	0.0
100	QPSK	1	137	21.82	21.84	21.74		
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		
100	16QAM	1	1	21.37	21.38	21.36	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	21.78	21.83	21.86	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	21.70	21.80	21.74	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.76	21.90	21.88	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.72	21.85	21.80	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	21.68	21.90	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.	Tune-up limit (dBm)	MPR (dB)		
Channel				635334						
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1	24.85	25.01	24.79	26.0	0.0		
100	PI2 BPSK	1	137	24.82	24.92	24.83				
100	PI2 BPSK	1	271	24.97	25.00	24.82				
100	PI2 BPSK	135	0	25.03	25.10	24.99				
100	PI2 BPSK	135	69	24.98	24.92	24.95	26.0	0.0		
100	PI2 BPSK	135	138	24.95	25.06	24.91	25.5	0.5		
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				
100	QPSK	1	271	24.99	24.99	24.75	26.0	1.0		
100	QPSK	135	0	24.48	24.60	24.45				
100	QPSK	135	69	24.94	24.95	24.92				
100	QPSK	135	138	24.47	24.55	24.48				
100	QPSK	270	0	24.48	24.59	24.46	25.0	1.0		
100	16QAM	1	1	24.48	24.60	24.49				
100	64QAM	1	1	23.04	23.07	22.98				
100	256QAM	1	1	20.94	21.13	20.96				
Channel				632000	633334	633968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	1	24.99	25.04	24.88	26.0	0.0		
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3493.02	3500.01	3510.01				
80	QPSK	1	1	24.94	25.03	24.92	26.0	0.0		
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01	3500.01	3515.01				
70	QPSK	1	1	24.91	25.04	24.79	26.0	0.0		
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	24.93	24.98	24.78	26.0	0.0		
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.00	3500.01	3525.01				
50	QPSK	1	1	24.88	25.03	24.77	26.0	0.0		
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	24.97	25.06	24.79	26.0	0.0		
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	24.97	25.05	24.82	26.0	0.0		
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	24.90	25.03	24.80	26.0	0.0		
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3457.5	3500.01	3542.52				
15	QPSK	1	1	24.95	24.96	24.78	26.0	0.0		
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3455.01	3500.01	3545.01				
10	QPSK	1	1	24.89	24.95	24.86	26.0	0.0		

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.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750					
Frequency (MHz)									
100	PI2 BPSK	1	1		21.55		23.0	0.0	
100	PI2 BPSK	1	137		21.49				
100	PI2 BPSK	1	271		21.45				
100	PI2 BPSK	135	0		21.22				
100	PI2 BPSK	135	69		21.44		23.0	0.0	
100	PI2 BPSK	135	138		21.45		22.5	0.5	
100	PI2 BPSK	270	0		21.06				
100	QPSK	1	1		20.63				
100	QPSK	1	137		20.61				
100	QPSK	1	271		20.60		22.0	1.0	
100	QPSK	135	0		19.84				
100	QPSK	135	69		20.58				
100	QPSK	135	138		19.78				
100	QPSK	270	0		19.75		21.0	2.0	
100	16QAM	1	1		20.04		22.0	1.0	
100	64QAM	1	1		18.67		20.5	2.5	
100	256QAM	1	1		17.09		18.5	4.5	
Channel				646668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1	21.47	21.50	21.48	23.0	0.0	
Channel				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1	21.51	21.46	21.51	23.0	0.0	
Channel				646000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1	21.48	21.42	21.51	23.0	0.0	
Channel				645668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1	21.47	21.47	21.50	23.0	0.0	
Channel				645334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3728.01	3750	3755.02			
50	PI2 BPSK	1	1	21.50	21.45	21.40	23.0	0.0	
Channel				645000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3760			
40	PI2 BPSK	1	1	21.49	21.41	21.45	23.0	0.0	
Channel				644668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3716.02	3750	3765.01			
30	PI2 BPSK	1	1	21.50	21.45	21.43	23.0	0.0	
Channel				644334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
20	PI2 BPSK	1	1	21.42	21.48	21.49	23.0	0.0	
Channel				644168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	PI2 BPSK	1	1	21.42	21.46	21.43	23.0	0.0	
Channel				644000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3755			
10	PI2 BPSK	1	1	21.50	21.43	21.40	23.0	0.0	

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.	Tune-up limit (dBm)	MPR (dB)		
Channel				633300 633334 633601						
Frequency (MHz)										
100	PI2 BPSK	1	1		22.14		23.0	0.0		
100	PI2 BPSK	1	137		22.05					
100	PI2 BPSK	1	271		22.06					
100	PI2 BPSK	135	0		21.42					
100	PI2 BPSK	135	69		22.05		22.5	0.0		
100	PI2 BPSK	135	138		21.45		22.5	0.5		
100	PI2 BPSK	270	0		21.46					
100	QPSK	1	1		21.29					
100	QPSK	1	137		21.09					
100	QPSK	1	271		21.05		23.0	1.0		
100	QPSK	135	0		20.23					
100	QPSK	135	69		21.15					
100	QPSK	135	138		20.29					
100	QPSK	270	0		20.26		22.0	1.0		
100	16QAM	1	1		20.55					
100	64QAM	1	1		19.06					
100	256QAM	1	1		18.01					
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495	3500.01	3505.02				
90	PI2 BPSK	1	1	22.04	22.04	22.05	23.0	0.0		
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3500.01	3510.01				
80	PI2 BPSK	1	1	22.02	22.02	22.08	23.0	0.0		
Channel				632332	633334	634334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485.01	3500.01	3515.01				
70	PI2 BPSK	1	1	22.01	21.98	22.05	23.0	0.0		
Channel				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3500.01	3520.02				
60	PI2 BPSK	1	1	22.00	22.00	21.99	23.0	0.0		
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3500.01	3525				
50	PI2 BPSK	1	1	22.06	22.05	21.99	23.0	0.0		
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3500.01	3530.01				
40	PI2 BPSK	1	1	22.04	22.00	22.01	23.0	0.0		
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3500.01	3535.02				
30	PI2 BPSK	1	1	22.07	22.07	22.03	23.0	0.0		
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3500.01	3540				
20	PI2 BPSK	1	1	22.03	22.05	22.09	23.0	0.0		
Channel				630300	633334	636368	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3457.5	3500.01	3542.52				
15	PI2 BPSK	1	1	22.01	22.08	22.08	23.0	0.0		
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3455.01	3500.01	3545.01				
10	PI2 BPSK	1	1	22.05	22.08	22.07	23.0	0.0		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1860	1900	19.6	0.0
Frequency (MHz)				1874	1874	1865		
20	PI2 BPSK	1	1	18.74	18.74	18.65		
20	PI2 BPSK	1	53	18.58	18.62	18.54		
20	PI2 BPSK	1	104	18.73	18.71	18.54	19.6	0.0
20	PI2 BPSK	50	0	18.67	18.75	18.58		
20	PI2 BPSK	50	28	18.67	18.66	18.58		
20	PI2 BPSK	50	86	18.62	18.62	18.61		
20	PI2 BPSK	100	0	18.68	18.71	18.67	19.6	0.0
20	QPSK	1	1	18.79	18.67	18.69		
20	QPSK	1	53	18.58	18.73	18.67		
20	QPSK	1	104	18.94	18.80	18.77		
20	QPSK	50	0	18.68	18.68	18.70	19.6	0.0
20	QPSK	50	28	18.59	18.75	18.80		
20	QPSK	50	56	18.62	18.59	18.63		
20	QPSK	100	0	18.54	18.68	18.67		
20	16QAM	1	1	18.55	18.59	18.52	19.6	0.0
20	64QAM	1	1	18.64	18.69	18.64		
20	256QAM	1	1	18.56	18.70	18.64		
Channel				371000	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	18.75	18.80	18.66		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	18.67	18.77	18.59		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	18.74	18.79	18.61		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2520	2535	2550	19.6	0.0
Frequency (MHz)				1875	1880	18.73		
40	PI2 BPSK	1	1	18.85	18.80	18.73		
40	PI2 BPSK	1	108	18.63	18.77	18.94		
40	PI2 BPSK	1	214	18.71	18.60	18.57	19.6	0.0
40	PI2 BPSK	108	0	18.73	18.68	18.68		
40	PI2 BPSK	108	54	18.59	18.67	18.53		
40	PI2 BPSK	108	108	18.60	18.66	18.58		
40	PI2 BPSK	216	0	18.65	18.72	18.52	19.6	0.0
40	QPSK	1	1	18.56	18.97	18.72		
40	QPSK	1	108	18.58	18.80	18.68		
40	QPSK	1	214	18.60	18.61	18.51		
40	QPSK	108	0	18.58	18.69	18.69	19.6	0.0
40	QPSK	108	54	18.68	18.84	18.68		
40	QPSK	108	108	18.67	18.68	18.63		
40	QPSK	216	0	18.53	18.71	18.58		
40	16QAM	1	1	18.53	18.72	18.68	19.6	0.0
40	64QAM	1	1	18.59	18.71	18.69		
40	256QAM	1	1	18.56	18.74	18.57		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.50	18.94	18.85		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.52	18.93	18.89		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	18.51	18.88	18.89		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.47	18.94	18.89		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.47	18.88	18.59		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.49	18.85	18.61		

n25 Main PA Ant3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376500	Power High Ch. / Freq. 381000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1862.5	1905	19.6	0.0
Frequency (MHz)				1874	18.83	18.77		
20	PI2 BPSK	1	1	18.70	18.66	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		
20	PI2 BPSK	50	56	18.75	18.77	18.78		
20	PI2 BPSK	100	0	18.75	18.82	18.66		
20	QPSK	1	1	18.81	19.03	18.80	19.6	0.0
20	QPSK	1	53	18.71	18.77	18.78		
20	QPSK	1	104	18.90	18.94	18.80		
20	QPSK	50	0	18.71	18.75	18.73		
20	QPSK	50	28	18.75	18.79	18.71	19.6	0.0
20	QPSK	50	56	18.68	18.65	18.67		
20	QPSK	100	0	18.63	18.76	18.67		
20	16QAM	1	1	18.68	18.69	18.61		
20	64QAM	1	1	18.68	18.74	18.71	19.6	0.0
20	256QAM	1	1	18.61	18.68	18.60		
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1862.5	1907.5		
15	QPSK	1	1	18.70	18.95	18.72		
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1853	1862.5	1910		
10	QPSK	1	1	18.74	18.93	18.72		
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1862.5	1912.5		
5	QPSK	1	1	18.71	18.94	18.68		



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)				2310					
10	PQ2 BPSK	1	1	19.68			20.6	0.0	
10	PQ2 BPSK	1	26	19.55					
10	PQ2 BPSK	1	50	19.60					
10	PQ2 BPSK	25	0	19.61			20.6	0.0	
10	PQ2 BPSK	25	14	19.71			20.6	0.0	
10	PQ2 BPSK	25	27	19.60			20.6	0.0	
10	PQ2 BPSK	50	0	19.55					
10	QPSK	1	1	19.75					
10	QPSK	1	26	19.37			20.6	0.0	
10	QPSK	1	50	19.06			20.6	0.0	
10	QPSK	25	0	19.95					
10	QPSK	25	14	19.47					
10	QPSK	25	27	19.97			20.6	0.0	
10	QPSK	50	0	19.36					
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	482000	482500	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5	20.6	0.0	
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PQ2 BPSK	1	1	19.74	19.83	19.79	21.1	0.0	
40	PQ2 BPSK	1	108	19.55	19.55	19.83			
40	PQ2 BPSK	1	214	19.73	19.76	19.67			
40	PQ2 BPSK	108	0	19.65	19.83	19.62	21.1	0.0	
40	PQ2 BPSK	108	54	19.50	19.83	19.65	21.1	0.0	
40	PQ2 BPSK	108	108	19.67	19.79	19.83	21.1	0.0	
40	PQ2 BPSK	216	0	19.62	19.66	19.67			
40	QPSK	1	1	19.85	19.86	19.72			
40	QPSK	1	108	19.58	19.72	19.69	21.1	0.0	
40	QPSK	1	214	19.83	19.72	19.93	21.1	0.0	
40	QPSK	108	0	19.70	19.83	19.74			
40	QPSK	108	54	19.79	19.75	19.72			
40	QPSK	108	108	19.67	19.66	19.65	21.1	0.0	
40	QPSK	216	0	19.84	19.79	19.74			
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	351000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	21.1	0.0	
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	21.1	0.0	
20	QPSK	1	1	19.75	19.77	19.65	21.1	0.0	
Channel				343500	349000	354500	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	21.1	0.0	
15	QPSK	1	1	19.78	19.75	19.66	21.1	0.0	
Channel				343000	349000	355000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	21.1	0.0	
10	QPSK	1	1	19.75	19.74	19.63	21.1	0.0	
Channel				342500	349000	355500	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	21.1	0.0	
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)				1702.5					
15	PQ2 BPSK	1	1	20.27			21.4	0.0	
15	PQ2 BPSK	1	40	20.14					
15	PQ2 BPSK	1	77	20.12					
15	PQ2 BPSK	36	0	20.07			21.4	0.0	
15	PQ2 BPSK	36	22	20.07			21.4	0.0	
15	PQ2 BPSK	36	43	20.05			21.4	0.0	
15	PQ2 BPSK	75	0	20.05					
15	QPSK	1	1	20.35					
15	QPSK	1	40	20.23			21.4	0.0	
15	QPSK	1	77	19.95			21.4	0.0	
15	QPSK	36	0	20.12					
15	QPSK	36	22	20.17					
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			21.4	0.0	
15	256QAM	1	1	19.66			21.0	0.4	
Channel				348000	349500	341000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705	21.4	0.0	
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	21.4	0.0	
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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509002	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	17.78	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				509000	518598	528000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.12	18.32	18.23	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				508002	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	2658.98		
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				503002	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.13	18.23	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509002	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	20.86	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				508000	518598	528000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.86	21.15	21.14	22.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2534.02	2592.99	2648.99		
80	QPSK	1	1	21.00	21.10	21.17	22.0	0.0
Channel				508002	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	2658.98		
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				503002	518598	534000		
Frequency (MHz)				2516.01	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				638000	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	26	16.06	16.26	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	26	16.12	16.34	16.07	17.3	0.0
40	QPSK	50	56	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	645000		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	16.15	16.29	16.07	17.3	0.0
Channel				637334	641866	646000		
Frequency (MHz)				3560.01	3624.99	3690		
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 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	15.47	15.66	15.47	17.1	0.0	
100	PI2 BPSK	1	137	15.51	15.70	15.52			
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	15.58	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			
100	QPSK	1	1	15.64	15.80	15.75	17.1	0.0	
100	QPSK	1	137	15.59	15.73	15.56			
100	QPSK	1	271	15.50	15.74	15.54			
100	QPSK	135	0	15.58	15.58	15.64	17.1	0.0	
100	QPSK	135	69	15.42	15.72	15.57	17.1	0.0	
100	QPSK	135	138	15.52	15.58	15.52	17.1	0.0	
100	QPSK	270	0	15.52	15.67	15.56			
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	656000	662334	Tune-up limit (dBm)		
Frequency (MHz)				3745.02	3840	3935.01	(dB)		
90	QPSK	1	1	15.51	15.73	15.72	17.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)		
Frequency (MHz)				3740.01	3840	3940.02	(dB)		
80	QPSK	1	1	15.58	15.67	15.62	17.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)		
Frequency (MHz)				3735	3840	3945	(dB)		
70	QPSK	1	1	15.51	15.66	15.69	17.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)		
Frequency (MHz)				3730.02	3840	3950.01	(dB)		
60	QPSK	1	1	15.57	15.64	15.66	17.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)		
Frequency (MHz)				3725.01	3840	3955.02	(dB)		
50	QPSK	1	1	15.57	15.72	15.70	17.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)		
Frequency (MHz)				3720	3840	3960	(dB)		
40	QPSK	1	1	15.59	15.70	15.71	17.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)		
Frequency (MHz)				3715.02	3840	3965.01	(dB)		
30	QPSK	1	1	15.51	15.65	15.68	17.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)		
Frequency (MHz)				3710.01	3840	3970.02	(dB)		
20	QPSK	1	1	15.57	15.73	15.67	17.1	0.0	
Channel				647000	656000	664934	Tune-up limit (dBm)		
Frequency (MHz)				3705.02	3840	3975.01	(dB)		
15	QPSK	1	1	15.50	15.73	15.65	17.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)		
Frequency (MHz)				3705	3840	3975	(dB)		
10	QPSK	1	1	15.56	15.71	15.64	17.1	0.0	

Part270 n77 PC2 Main PA Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.44	18.71	18.51	20.1	0.0	
100	PI2 BPSK	1	137	18.36	18.72	18.58			
100	PI2 BPSK	1	271	18.45	18.67	18.50			
100	PI2 BPSK	135	0	18.42	18.71	18.47	20.1	0.0	
100	PI2 BPSK	135	69	18.59	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			
100	QPSK	1	1	18.57	18.93	18.75	20.1	0.0	
100	QPSK	1	137	18.50	18.87	18.66			
100	QPSK	1	271	18.64	18.91	18.65			
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			
100	64QAM	1	1	18.38	18.74	18.57	20.1	0.0	
100	256QAM	1	1	18.47	18.63	18.48	20.1	0.0	
Channel				649668	656000	662334	Tune-up limit (dBm)		
Frequency (MHz)				3745.02	3840	3935.01	(dB)		
90	QPSK	1	1	18.51	18.81	18.67	20.1	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)		
Frequency (MHz)				3740.01	3840	3940.02	(dB)		
80	QPSK	1	1	18.54	18.89	18.64	20.1	0.0	
Channel				649000	656000	663000	Tune-up limit (dBm)		
Frequency (MHz)				3735	3840	3945 <th colspan="3">(dB)</th>	(dB)		
70	QPSK	1	1	18.40	18.83	18.68	20.1	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)		
Frequency (MHz)				3730.02	3840	3950.01	(dB)		
60	QPSK	1	1	18.48	18.89	18.61	20.1	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)		
Frequency (MHz)				3725.01	3840	3955.02	(dB)		
50	QPSK	1	1	18.51	18.87	18.67	20.1	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)		
Frequency (MHz)				3720	3840	3960	(dB)		
40	QPSK	1	1	18.51	18.91	18.64	20.1	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)		
Frequency (MHz)				3715.02	3840	3965.01	(dB)		
30	QPSK	1	1	18.54	18.88	18.62	20.1	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)		
Frequency (MHz)				3710.01	3840	3970.02	(dB)		
20	QPSK	1	1	18.50	18.87	18.62	20.1	0.0	
Channel				647000	656000	664934	Tune-up limit (dBm)		
Frequency (MHz)				3705.02	3840	3975.01	(dB)		
15	QPSK	1	1	18.54	18.81	18.64	20.1	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)		
Frequency (MHz)				3705	3840	3975	(dB)		
10	QPSK	1	1	18.48	18.87	18.68	20.1	0.0	

Part27Q n77 Main PA Ant3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	633334	636668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	18.01			17.1	0.0	
100	PI2 BPSK	1	137	15.97					
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					
100	QPSK	1	1	16.11			17.1	0.0	
100	QPSK	1	137	15.88					
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					
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				630000	633334	636668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3500.01	3500.01	3500.02	(dBm)	(dB)	
90	QPSK	1	1	15.89	15.90	15.96	17.1	0.0	
Channel				630668	633334	634000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	15.83	15.90	15.96	17.1	0.0	
Channel				632233	633334	634334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	15.97	15.96	15.87	17.1	0.0	
Channel				632000	633334	634668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3500.01	3510.02	(dBm)	(dB)	
60	QPSK	1	1	15.97	16.01	15.98	17.1	0.0	
Channel				631668	633334	635000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	15.98	15.93	15.90	17.1	0.0	
Channel				631334	633334	635334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	15.96	16.00	15.88	17.1	0.0	
Channel				631000	633334	635668	Tune-up limit (dB)	MPR	
Frequency (MHz)				3465	3500.01	3536.02	(dBm)	(dB)	
30	QPSK	1	1	15.95	15.99	15.97	17.1	0.0	
Channel				630668	633334	636000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3470.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	15.98	15.96	15.97	17.1	0.0	
Channel				630500	633334	636168	Tune-up limit (dB)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	15.88	16.00	15.93	17.1	0.0	
Channel				630334	633334	636334	Tune-up limit (dB)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	15.95	15.99	15.96	17.1	0.0	



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				633000		650001			
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1	18.92			20.1	0.0	
100	P12 BPSK	1	137	18.82					
100	P12 BPSK	1	271	18.84					
100	P12 BPSK	135	0	18.82			20.1	0.0	
100	P12 BPSK	135	69	18.78			20.1	0.0	
100	P12 BPSK	135	138	18.87			20.1	0.0	
100	P12 BPSK	270	0	18.78			20.1	0.0	
100	QPSK	1	1	18.96			20.1	0.0	
100	QPSK	1	137	18.87					
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	18.71			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				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.74	18.89	18.84	20.1	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	QPSK	1	1	18.84	18.87	18.87	20.1	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.74	18.88	18.88	20.1	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.02	3500.01	3520.02			
60	QPSK	1	1	18.77	18.93	18.83	20.1	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.79	18.87	18.84	20.1	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.75	18.94	18.84	20.1	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.75	18.96	18.87	20.1	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.73	18.95	18.87	20.1	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.82	18.96	18.83	20.1	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
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				650000					
Frequency (MHz)				3750					
100	P12 BPSK	1	1	15.54			17.1	0.0	
100	P12 BPSK	1	137	15.48					
100	P12 BPSK	1	271	15.42					
100	P12 BPSK	135	0	15.42			17.1	0.0	
100	P12 BPSK	135	69	15.42			17.1	0.0	
100	P12 BPSK	135	138	15.25			17.1	0.0	
100	P12 BPSK	270	0	15.41			17.1	0.0	
100	QPSK	1	1	15.60			17.1	0.0	
100	QPSK	1	137	15.53					
100	QPSK	1	271	15.48					
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				649668	650000	650334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.18	15.34	15.21	17.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.24	15.38	15.25	17.1	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.30	15.29	15.18	17.1	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.29	15.35	15.25	17.1	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.19	15.29	15.22	17.1	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3720	3750	3760			
40	QPSK	1	1	15.22	15.28	15.16	17.1	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	15.27	15.34	15.21	17.1	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	15.23	15.32	15.21	17.1	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	15.27	15.25	15.23	17.1	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3705	3750	3795			
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				633334		633334			
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1	15.64			17.1	0.0	
100	P12 BPSK	1	137	15.59					
100	P12 BPSK	1	271	15.48					
100	P12 BPSK	135	0	15.43			17.1	0.0	
100	P12 BPSK	135	69	15.51			17.1	0.0	
100	P12 BPSK	135	138	15.38			17.1	0.0	
100	P12 BPSK	270	0	15.46			17.1	0.0	
100	QPSK	1	1	15.68			17.1	0.0	
100	QPSK	1	137	15.68					
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				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.19	15.29	15.20	17.1	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	QPSK	1	1	15.21	15.23	15.27	17.1	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.30	15.27	15.22	17.1	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3510.02			
60	QPSK	1	1	15.29	15.28	15.16	17.1	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3500.01	3525			
50	QPSK	1	1	15.21	15.21	15.28	17.1	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.21	15.28	15.27	17.1	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.25	15.34	15.21	17.1	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.19	15.21	15.21	17.1	0.0	
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	15.19	15.33	15.22	17.1	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
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 Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				3570	3624.99	3679.98	20.3	0.0	
Frequency (MHz)				18.70	19.07	19.60			
40	P12 BPSK	1	1	18.70 <td>19.07<td>19.60</td></td>	19.07 <td>19.60</td>	19.60			
40	P12 BPSK	1	53	18.54	19.03	18.89			
40	P12 BPSK	1	104	18.70	19.08	18.84	20.3	0.0	
40	P12 BPSK	50	0	18.76	19.07	18.90			
40	P12 BPSK	50	28	18.80	19.15	18.92			
40	P12 BPSK	50	56	18.70	19.01	18.92			
40	P12 BPSK	100	0	18.82	19.05	18.70	20.3	0.0	
40	QPSK	1	1	18.90	19.28	18.93			
40	QPSK	1	53	18.61	19.03	18.85			
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			
40	QPSK	50	56	18.64	18.92	18.78			
40	QPSK	100	0	18.65	19.01	18.84			
40	16QAM	1	1	18.80	19.18	18.96	20.3	0.0	
40	64QAM	1	1	18.76	18.93	18.79			
40	256QAM	1	1	19.24	19.18	19.13			
Channel				637698	641696	645666			
Frequency (MHz)				3552.02	3524.99	3684.99	MPR (db)		
30	QPSK	1	1	18.77	19.25	18.81	20.3	0.0	
Channel				637334	641696	646000			
Frequency (MHz)				3569.01	3524.99	3690			
20	QPSK	1	1	18.84	19.21	18.86			
Channel				637000	641696	646332	20.3	0.0	
Frequency (MHz)				3555	3524.99	3694.98			
10	QPSK	1	1	18.77	19.22	18.85			

Part270 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				650000	656000	662000	19.7	0.0	
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	18.69	18.74	18.79			
100	P12 BPSK	1	137	18.85	18.84	18.39			
100	P12 BPSK	1	271	18.77	18.84	18.30	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	P12 BPSK	135	0	18.65	18.77	18.39			
100	P12 BPSK	135	69	18.65	18.68	18.21			
100	P12 BPSK	135	138	18.67	18.63	18.31			
100	P12 BPSK	270	0	18.75	18.69	18.24	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	QPSK	1	1	18.79	19.01	18.53			
100	QPSK	1	137	18.72	18.79	18.39			
100	QPSK	1	271	18.66	18.76	18.41			
100	QPSK	135	0	18.64	18.71	18.74	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	QPSK	135	69	18.76	18.88	18.39			
100	QPSK	135	138	18.67	18.86	18.38			
100	QPSK	270	0	18.68	18.71	18.32			
100	16QAM	1	1	18.38	18.41	18.21	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	64QAM	1	1	18.02	18.14	18.08			
100	256QAM	1	1	17.96	17.99	17.93			
Channel				649668	656000	662668			
Frequency (MHz)				3745.02	3840	3935.01	MPR (dB)		
90	QPSK	1	1	18.68	18.93	18.49	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.76	18.92	18.44			
Channel				649000	656000	663000	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.70	18.97	18.42			
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01	19.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
60	QPSK	1	1	18.71	18.97	18.39			
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.73	18.87	18.50	19.7 <th colspan="2" rowspan="3">0.0</th>	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.72	18.99	18.40		19.7	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.72	18.98	18.39		19.7	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.73	18.89	18.41		19.7	
Channel				647168	656000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.75	18.94	18.46		19.7	
Channel				647000	656000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.70	18.94	18.43			

Part270 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				650000	656000	662000	22.7	0.0	
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	21.51	21.61	21.42			
100	P12 BPSK	1	137	21.54	21.53	21.49			
100	P12 BPSK	1	271	21.55	21.45	21.51	22.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	P12 BPSK	135	0	21.59	21.74	21.63			
100	P12 BPSK	135	69	21.42	21.64	21.47			
100	P12 BPSK	135	138	21.46	21.54	21.43			
100	P12 BPSK	270	0	21.41	21.46	21.49	22.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	QPSK	1	1	21.56	21.89	21.36			
100	QPSK	1	137	21.43	21.72	21.40			
100	QPSK	1	271	21.48	21.87	21.21			
100	QPSK	135	0	21.41	21.50	21.41	22.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
100	QPSK	135	69	21.51	21.67	21.35			
100	QPSK	135	138	21.42	21.61	21.31			
100	QPSK	270	0	21.45	21.62	21.33			
100	16QAM	1	1	21.02	21.04	20.93	22.7 <th colspan="2" rowspan="3">0.0</th>	0.0	
100	64QAM	1	1	21.55	21.65	21.28			
100	256QAM	1	1	21.11	21.12	21.04			
Channel				649668	656000	662334		Tune-up limit	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)		(dB)
90	QPSK	1	1	21.43	21.81	21.23	22.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
Channel				649334	656000	662668			
Frequency (MHz)				3743.01	3840	3940.02			
80	QPSK	1	1	21.50	21.80	21.31			
Channel				649000	656000	663000	22.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.53	21.77	21.30			
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01	22.7 <th colspan="2" rowspan="4">0.0</th>	0.0	
60	QPSK	1	1	21.44	21.78	21.31			
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.46	21.74	21.26	22.7 <th colspan="2" rowspan="3">0.0</th>	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.49	21.80	21.24		22.7	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			

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	Pl/2 BPSK	1	1		18.58		19.7	0.0
100	Pl/2 BPSK	1	137		18.62			
100	Pl/2 BPSK	1	271		18.50			
100	Pl/2 BPSK	135	0		18.70			
100	Pl/2 BPSK	135	69		18.64		19.7	0.0
100	Pl/2 BPSK	135	138		18.54		19.7	0.0
100	Pl/2 BPSK	270	0		18.57			
100	QPSK	1	1		18.73		19.7	0.0
100	QPSK	1	137		18.58			
100	QPSK	1	271		18.71		19.7	0.0
100	QPSK	135	0		18.65			
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			
100	16QAM	1	1		18.54		19.7	0.0
100	64QAM	1	1		18.62		19.7	0.0
100	256QAM	1	1		18.58		19.7	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.38	18.59	18.53	19.7	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.41	18.55	18.48	19.7	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.47	18.59	18.51	19.7	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.37	18.61	18.54	19.7	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3505		
50	QPSK	1	1	18.41	18.53	18.57	19.7	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3520.01		
40	QPSK	1	1	18.42	18.51	18.52	19.7	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.37	18.54	18.58	19.7	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.40	18.53	18.58	19.7	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	18.44	18.56	18.56	19.7	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
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				633334				
Frequency (MHz)				3500.01				
100	Pl/2 BPSK	1	1		21.68		22.7	0.0
100	Pl/2 BPSK	1	137		21.62			
100	Pl/2 BPSK	1	271		21.47			
100	Pl/2 BPSK	135	0		21.65			
100	Pl/2 BPSK	135	69		21.51		22.7	0.0
100	Pl/2 BPSK	135	138		21.40		22.7	0.0
100	Pl/2 BPSK	270	0		21.51			
100	QPSK	1	1		21.75		22.7	0.0
100	QPSK	1	137		21.52			
100	QPSK	1	271		21.68		22.7	0.0
100	QPSK	135	0		21.54			
100	QPSK	135	69		21.63		22.7	0.0
100	QPSK	135	138		21.62		22.7	0.0
100	QPSK	270	0		21.50			
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				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.49	21.40	21.53	22.7	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.55	21.45	21.45	22.7	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.51	21.45	21.47	22.7	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.52	21.44	21.51	22.7	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3505		
50	QPSK	1	1	21.47	21.46	21.47	22.7	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3520.01		
40	QPSK	1	1	21.43	21.39	21.48	22.7	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.52	21.38	21.42	22.7	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.45	21.44	21.42	22.7	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	21.45	21.42	21.44	22.7	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
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					3750				
Frequency (MHz)					18.49				
100	PI2 BPSK	1	1		18.49		19.7	0.0	
100	PI2 BPSK	1	137		18.55				
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				
100	QPSK	1	1		18.70				
100	QPSK	1	137		18.52		19.7	0.0	
100	QPSK	1	271		18.63		19.7	0.0	
100	QPSK	135	0		18.47				
100	QPSK	135	69		18.60				
100	QPSK	135	138		18.58		19.7	0.0	
100	QPSK	270	0		18.56		19.7	0.0	
100	16QAM	1	1		18.47				
100	64QAM	1	1		18.55				
100	256QAM	1	1		18.42		19.7	0.0	
Channel					649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3745.02	3750	3750.01		
90	QPSK	1	1		18.42	18.48	18.35	19.7	0.0
Channel					649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3740.01	3750	3760.02		
80	QPSK	1	1		18.37	18.43	18.31	19.7	0.0
Channel					649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3735	3750	3765		
70	QPSK	1	1		18.39	18.44	18.30	19.7	0.0
Channel					648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3730.02	3750	3770.01		
60	QPSK	1	1		18.42	18.47	18.29	19.7	0.0
Channel					648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3725.01	3750	3775.02		
50	QPSK	1	1		18.41	18.49	18.30	19.7	0.0
Channel					648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3720	3750	3780		
40	QPSK	1	1		18.35	18.51	18.33	19.7	0.0
Channel					647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3715.02	3750	3785.01		
30	QPSK	1	1		18.42	18.47	18.32	19.7	0.0
Channel					647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3710.01	3750	3790.02		
20	QPSK	1	1		18.33	18.43	18.27	19.7	0.0
Channel					647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3707.52	3750	3792.51		
15	QPSK	1	1		18.43	18.41	18.36	19.7	0.0
Channel					647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3705	3750	3795		
10	QPSK	1	1		18.32	18.43	18.36	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					3500.01				
Frequency (MHz)					18.41				
100	PI2 BPSK	1	1		18.41		19.7	0.0	
100	PI2 BPSK	1	137		18.36				
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				
100	QPSK	1	1		18.61				
100	QPSK	1	137		18.37		19.7	0.0	
100	QPSK	1	271		18.56		19.7	0.0	
100	QPSK	135	0		18.25				
100	QPSK	135	69		18.55				
100	QPSK	135	138		18.43		19.7	0.0	
100	QPSK	270	0		18.44		19.7	0.0	
100	16QAM	1	1		18.45				
100	64QAM	1	1		18.44				
100	256QAM	1	1		18.34		19.7	0.0	
Channel					633600	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3495	3500.01	3505.02		
90	QPSK	1	1		18.44	18.39	18.50	19.7	0.0
Channel					632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3490.02	3500.01	3510		
80	QPSK	1	1		18.49	18.37	18.45	19.7	0.0
Channel					632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3485.01	3500.01	3515.01		
70	QPSK	1	1		18.52	18.39	18.50	19.7	0.0
Channel					632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3480	3500.01	3520.02		
60	QPSK	1	1		18.49	18.43	18.48	19.7	0.0
Channel					631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3475.02	3500.01	3525		
50	QPSK	1	1		18.49	18.45	18.41	19.7	0.0
Channel					631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3470.01	3500.01	3530.01		
40	QPSK	1	1		18.52	18.41	18.39	19.7	0.0
Channel					631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3465	3500.01	3535.02		
30	QPSK	1	1		18.43	18.38	18.48	19.7	0.0
Channel					630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3460.02	3500.01	3540		
20	QPSK	1	1		18.46	18.46	18.50	19.7	0.0
Channel					630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3457.5	3500.01	3542.52		
15	QPSK	1	1		18.51	18.44	18.48	19.7	0.0
Channel					630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)					3455.01	3500.01	3545.01		
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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	23.0	0.0
Frequency (MHz)				1860	1880	1900		
20	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	23.0	0.0
20	PI2 BPSK	50	0	21.81	21.88	21.82		
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		
20	PI2 BPSK	100	0	21.59	21.68	21.62	23.0	0.0
20	QPSK	1	1	21.98	22.01	21.81		
20	QPSK	1	53	21.90	21.92	21.83	23.0	0.0
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	21.96	21.88		
20	QPSK	50	56	21.38	21.45	21.44	23.0	0.0
20	QPSK	100	0	21.55	21.58	21.55		
20	16QAM	1	1	21.41	21.44	21.38	23.0	0.0
20	16QAM	1	1	20.04	20.06	19.99		
20	256QAM	1	1	18.73	18.75	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	21.84	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

n5 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				166800	167300	167800	24.0	0.0
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		
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		
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		
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		
20	QPSK	1	53	23.00	23.05	22.95	24.0	0.0
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		
20	QPSK	50	56	23.02	23.10	23.00	24.0	0.0
20	QPSK	100	0	23.10	23.18	23.14		
20	16QAM	1	1	23.20	23.23	23.21	24.0	0.0
20	16QAM	1	1	21.48	21.55	21.48		
20	256QAM	1	1	20.10	20.15	20.08	20.5	3.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.99	22.98	23.05	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.96	22.91	23.03	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.96	22.95	23.02	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				504000	507000	510000	24.0	0.0
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	22.68	22.60		
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		
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		
40	PI2 BPSK	216	0	22.59	22.65	22.60	24.0	0.0
40	QPSK	1	1	22.87	22.92	22.77		
40	QPSK	1	108	22.71	22.75	22.71	24.0	0.0
40	QPSK	1	214	22.87	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		
40	QPSK	108	108	22.58	22.60	22.57	24.0	0.0
40	QPSK	216	0	22.80	22.65	22.58		
40	16QAM	1	1	22.83	22.72	22.88	24.0	0.0
40	16QAM	1	1	21.16	21.24	21.18		
40	256QAM	1	1	18.59	18.67	18.62	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	22.69	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	2562.5		
15	QPSK	1	1	22.84	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 Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	24.0	0.0
Frequency (MHz)				704.5	707.5	709.5		
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	23.07	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		
15	QPSK	36	22	23.23	23.32	23.26	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	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	23.25	23.34	23.26	24.0	0.0
Channel				140500	141500	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	23.25	23.30	23.23	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	158600		24.0	0.0
Frequency (MHz)				793				
10	PI/2 BPSK	1	1		23.38		24.0	0.0
10	PI/2 BPSK	1	26		23.32			
10	PI/2 BPSK	1	50		23.34			
10	PI/2 BPSK	25	0		23.33		24.0	0.0
10	PI/2 BPSK	25	14		23.34		24.0	0.0
10	PI/2 BPSK	25	27		23.36		24.0	0.0
10	PI/2 BPSK	50	0		23.27			
10	QPSK	1	1		23.61			
10	QPSK	1	26		23.28		24.0	0.0
10	QPSK	1	50		23.18			
10	QPSK	25	0		23.27			
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	64QAM	1	1		22.59		23.0	1.0
10	256QAM	1	1		20.97		21.0	3.0
Channel				158100	158600	159100	Tune-up limit	MPR
Frequency (MHz)				790.5	793	795.5	(dBm)	(dB)
5	QPSK	1	1	23.44	23.44	23.42	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				372000	376500	381000	23.0	0.0
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	21.88	21.97	21.80	23.0	0.0
20	PI/2 BPSK	50	28	21.87	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	22.06	21.76		
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		
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	18.98	19.02	18.97	19.5	3.5
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	21.89	21.90	21.74	23.0	0.0
Channel				371000	376500	382000	Tune-up limit	MPR
Frequency (MHz)				1865	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	21.89	21.97	21.68	23.0	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)
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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
	PI/2 BPSK	1	1	23.16	23.34	23.18	24.0	0.0		
20	PI/2 BPSK	1	53	23.01	23.20	23.01				
20	PI/2 BPSK	1	104	23.07	23.23	23.05				
20	PI/2 BPSK	50	0	23.08	23.27	23.09				
20	PI/2 BPSK	50	26	23.00	23.19	23.02	24.0	0.0		
20	PI/2 BPSK	50	56	23.01	23.21	23.05	24.0	0.0		
20	PI/2 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	22.95				
20	QPSK	1	104	23.01	23.16	23.03	24.0	0.0		
20	QPSK	50	0	23.05	23.23	23.03				
20	QPSK	50	26	23.09	23.29	23.07				
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				
20	64QAM	1	1	21.53	21.71	21.50				
20	256QAM	1	1	20.09	20.26	20.09				
20	256QAM	1	1	20.09	20.26	20.09	22.5	3.5		
Channel										
	Frequency (MHz)			821.5	831.5	841.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	23.01	23.17	23.06	24.0	0.0		
Channel				163000	165000	167000				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	1	23.03	23.16	23.10				
Channel										
	Frequency (MHz)			163300	165300	167300	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	23.07	23.19	23.07	24.0	0.0		
Channel										
Frequency (MHz)										
Channel										

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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					462000			
Frequency (MHz)					2310			
10	PI/2 BPSK	1	1		21.15		22.0	0.0
10	PI/2 BPSK	1	26		21.09			
10	PI/2 BPSK	1	50		21.14			
10	PI/2 BPSK	25	0		19.82	21.5		
10	PI/2 BPSK	25	14		20.82	22.0	0.0	
10	PI/2 BPSK	25	27		20.24	21.5	0.5	
10	PI/2 BPSK	50	0		20.61			
10	QPSK	1	1		21.17			
10	QPSK	1	26		21.12			
10	QPSK	1	50		20.54	22.0	0.0	
10	QPSK	25	0		20.65	21.0	1.0	
10	QPSK	25	14		20.62			
10	QPSK	25	27		20.34			
10	QPSK	50	0		20.13			
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	21.12	22.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				345000	349000	350000				
Frequency (MHz)				1730	1745	1760				
40	PI/2 BPSK	1	1	21.58	22.48	21.99	23.0	0.0		
40	PI/2 BPSK	1	108	21.58	22.43	21.96				
40	PI/2 BPSK	1	214	21.63	22.51	22.02				
40	PI/2 BPSK	108	0	21.16	22.04	21.49				
40	PI/2 BPSK	108	54	21.64	22.43	21.97	23.0	0.0		
40	PI/2 BPSK	108	108	21.20	21.99	21.55	22.5	0.5		
40	PI/2 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	22.48	22.01				
40	QPSK	1	214	21.63	22.43	21.99	23.0	0.0		
40	QPSK	108	0	20.62	21.56	21.07				
40	QPSK	108	54	21.54	22.43	21.93				
40	QPSK	108	108	20.59	21.40	21.04				
40	QPSK	216	0	20.55	21.36	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				
40	256QAM	1	1	17.19	18.04	17.50				
40	256QAM	1	1	17.19	18.04	17.50				
Channel				345000	349000	353000	Tune-up limit	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	21.63	22.40	21.98	23.0	0.0		
Channel				345000	349000	354000				
Frequency (MHz)				1720	1745	1765				
20	QPSK	1	1	21.61	22.42	21.92				
Channel				345000	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
15	QPSK	1	1	21.55	22.49	21.91	23.0	0.0		
Channel				343000	349000	355000				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	21.53	22.47	21.97				
Channel				342500	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	21.63	22.45	21.98	23.0	0.0		
Channel										
Frequency (MHz)										
Channel										

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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				1702.5	340500		23.0	0.0
Frequency (MHz)								
15	PI/2 BPSK	1	1		21.87			
15	PI/2 BPSK	1	40		21.84			
15	PI/2 BPSK	1	77		21.69			
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				319500	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				134000	136100	137600	24.0	0.0
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	23.37	23.30		
20	PI/2 BPSK	1	104	23.19	23.27	23.18		
20	PI/2 BPSK	50	0	23.98	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	66	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		
20	QPSK	1	104	23.32	23.35	23.25	24.0	0.0
20	QPSK	50	0	22.96	22.62	22.57	23.0	1.0
20	QPSK	50	28	23.90	23.98	23.92	24.0	0.0
20	QPSK	50	66	22.42	22.49	22.41		
20	QPSK	100	0	22.50	22.54	22.46	23.0	1.0
20	16QAM	1	1	22.63	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	19.26	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	23.49	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 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	22.93	22.98	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	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	22.86	24.0	0.0	
100	QPSK	1	271	22.69	22.72	22.69	24.0	0.0	
100	QPSK	135	0	22.73	22.78	22.72			
100	QPSK	135	69	22.79	22.84	22.77			
100	QPSK	135	138	22.60	22.62	22.58	24.0	0.0	
100	QPSK	270	0	22.66	22.68	22.61	24.0	0.0	
100	16QAM	1	1	22.55	22.60	22.55			
100	64QAM	1	1	22.47	22.55	22.50			
100	256QAM	1	1	22.24	22.33	22.23	22.5	1.5	
Channel				508200	518598	528998	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	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99			
80	QPSK	1	1	22.82	22.95	22.90		24.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.81	22.90	22.95	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	22.82	22.99	22.93	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.00	2592.99	2664.98			
50	QPSK	1	1	22.84	22.97	22.92	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.83	22.98	22.94	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.85	22.91	22.92	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.81	22.98	22.96	24.0	0.0	

n41 PC2 Main PA Ant0								
BIW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Middle Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506202	518598	526000		
Frequency (MHz)				2544.01	2592.99	2640		
100	PI2 BPSK	1	1	25.78	25.81	25.78		
100	PI2 BPSK	1	137	25.72	25.77	25.70	27.0	0.0
100	PI2 BPSK	1	271	25.81	25.85	25.57		
100	PI2 BPSK	135	0	25.70	25.74	25.70	26.5	0.5
100	PI2 BPSK	135	69	25.68	25.65	25.62	27.0	0.0
100	PI2 BPSK	135	138	25.85	25.71	25.68		
100	PI2 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	25.93		
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	25.48	25.48	25.38		
100	QPSK	270	0	25.51	25.57	25.50	26.0	1.0
100	16QAM	1	1	25.58	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	529998		
Frequency (MHz)				2641	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.54	25.96	25.82	27.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2633.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.57	25.94	25.60	27.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.57	25.93	25.62	27.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.58	25.94	25.68	27.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2602.98	2644.98	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.82	26.00	25.88	27.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2511.01	2592.99	2570	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.59	25.97	25.85	27.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.54	25.95	25.66	27.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.61	25.93	25.61	27.0	0.0



n2 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1860	1900	14.8	0.0
Frequency (MHz)								
20	PI2 BPSK	1	1	13.78	13.85	13.84		
20	PI2 BPSK	1	53	13.65	13.63	13.75		
20	PI2 BPSK	1	104	13.63	13.70	13.65	14.8	0.0
20	PI2 BPSK	50	0	13.63	13.68	13.60		
20	PI2 BPSK	50	28	13.75	13.95	13.58		
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		
20	QPSK	1	104	13.73	13.85	13.75		
20	QPSK	50	0	13.75	13.84	13.75	14.8	0.0
20	QPSK	50	28	13.95	14.03	13.75		
20	QPSK	50	56	13.73	13.85	13.82		
20	QPSK	100	0	13.63	13.86	13.89		
20	16QAM	1	1	13.78	13.90	13.70	14.8	0.0
20	64QAM	1	1	13.77	13.86	13.78		
20	256QAM	1	1	13.65	13.69	13.78		
Channel				371000	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	13.62	13.65	13.35		
Channel				371000	376000	381000		
Frequency (MHz)				1855	1860	1905	14.8	0.0
10	QPSK	1	1	13.57	13.85	13.39		
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	13.60	13.67	13.45	14.8	0.0

n5 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)
Channel				834	836.5	839	20.1	0.0
Frequency (MHz)								
20	PI2 BPSK	1	1	19.17	19.38	18.95		
20	PI2 BPSK	1	83	19.05	19.19	18.79		
20	PI2 BPSK	1	104	19.01	19.24	18.90	20.1	0.0
20	PI2 BPSK	50	0	18.74	18.86	18.86		
20	PI2 BPSK	50	28	19.00	19.02	18.95		
20	PI2 BPSK	50	86	18.69	18.99	19.02		
20	PI2 BPSK	100	0	18.73	18.85	18.86	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	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	QPSK	50	56	18.92	18.95	18.95		
20	QPSK	100	0	18.92	19.05	18.96		
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	256QAM	1	1	18.95	18.98	19.02		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.21	19.31	19.18		
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844	20.1	0.0
10	QPSK	1	1	19.20	19.34	19.13		
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.22	19.31	19.10	20.1	0.0

n7 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2520	2535	2550	15.9	0.0
Frequency (MHz)								
40	PI2 BPSK	1	1	14.30	14.53	14.34		
40	PI2 BPSK	1	108	14.45	14.42	14.53		
40	PI2 BPSK	1	214	14.02	14.18	14.14	15.9	0.0
40	PI2 BPSK	108	0	14.21	14.41	14.29		
40	PI2 BPSK	108	54	14.31	14.29	14.20		
40	PI2 BPSK	108	108	14.19	14.03	14.22		
40	PI2 BPSK	216	0	14.28	14.29	14.22	15.9	0.0
40	QPSK	1	1	14.49	14.62	14.55		
40	QPSK	1	108	14.45	14.55	14.65		
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		
40	QPSK	108	108	14.47	14.33	14.24		
40	QPSK	216	0	14.41	14.46	14.28		
40	16QAM	1	1	14.31	14.28	14.03	15.9	0.0
40	64QAM	1	1	14.16	14.18	14.28		
40	256QAM	1	1	14.21	14.28	14.32		
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.38	14.26	14.49		
Channel				502500	507000	511900		
Frequency (MHz)				2512.5	2535	2537.5		
25	QPSK	1	1	14.30	14.27	14.32	15.9	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	14.30	14.31	14.39		
Channel				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.29	14.49	14.48		
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.47	14.50	14.50	15.9	0.0
Channel				500500	507000	513900		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.42	14.43	14.39	15.9	0.0



n12 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				706.5	707.5	708.5	21.3	0.0
Frequency (MHz)				20.27	20.33	20.23		
15	PI/2 BPSK	1	1	20.20	20.11	19.94		
15	PI/2 BPSK	1	40	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	21.3	0.0
15	QPSK	1	40	20.28	20.24	20.13		
15	QPSK	1	77	20.39	20.25	20.28		
15	QPSK	36	0	20.15	20.28	20.25		
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	20.06	20.36	20.13	21.3	0.0
15	16QAM	1	1	20.04	20.04	20.11	21.3	0.0
15	64QAM	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				140300	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711	21.3	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				703.5	707.5	713.5	21.3	0.0
5	QPSK	1	1	19.92	19.99	20.17	21.3	0.0

n14 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				793			21.5	0.0
Frequency (MHz)				20.24				
10	PI2 BPSK	1	1	20.17	20.17	20.17		
10	PI2 BPSK	1	50	20.03	20.03	20.03		
10	PI2 BPSK	25	0	20.12	20.12	20.12	21.5	0.0
10	PI2 BPSK	25	14	20.02	20.02	20.02	21.5	0.0
10	PI2 BPSK	25	27	20.12	20.12	20.12	21.5	0.0
10	PI2 BPSK	50	0	20.00	20.00	20.00	21.5	0.0
10	QPSK	1	1	20.49	20.49	20.49	21.5	0.0
10	QPSK	1	26	20.30	20.30	20.30		
10	QPSK	1	50	20.27	20.27	20.27		
10	QPSK	25	0	20.17	20.17	20.17		
10	QPSK	25	14	20.28	20.28	20.28	21.5	0.0
10	QPSK	25	27	20.15	20.15	20.15	21.5	0.0
10	QPSK	50	0	20.21	20.21	20.21	21.5	0.0
10	16QAM	1	1	20.10	20.10	20.10	21.5	0.0
10	64QAM	1	1	20.12	20.12	20.12	21.5	0.0
10	256QAM	1	1	20.21	20.21	20.21	21.0	0.5
Channel				158100	159300	159100	Tune-up limit (dBm)	MPR (dB)
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

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				1660	1662.5	1605	14.8	0.0
Frequency (MHz)				13.96	13.95	13.86		
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	14.8	0.0
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	14.8	0.0
20	QPSK	1	53	13.91	13.92	14.00		
20	QPSK	1	104	13.76	13.86	13.84		
20	QPSK	50	0	13.95	14.03	13.90		
20	QPSK	50	28	14.01	14.09	13.98	14.8	0.0
20	QPSK	50	56	13.91	13.96	13.81	14.8	0.0
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	64QAM	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 (dB)
Frequency (MHz)				1657.5	1662.5	1607.5	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 (dB)
Frequency (MHz)				1655	1662.5	1610	14.8	0.0
10	QPSK	1	1	13.97	13.89	13.94	14.8	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1652.5	1662.5	1612.5	14.8	0.0
5	QPSK	1	1	13.89	14.02	13.89	14.8	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				834	831.5	839		
Frequency (MHz)				19.28	19.40	19.09		
20	PI2 BPSK	1	1	19.14	19.27	19.03	20.1	0.0
20	PI2 BPSK	1	53	19.06	19.27	19.02		
20	PI2 BPSK	1	104	18.80	18.95	18.99	20.1	0.0
20	PI2 BPSK	50	0	19.03	19.09	19.03	20.1	0.0
20	PI2 BPSK	50	28	18.78	19.04	19.95	20.1	0.0
20	PI2 BPSK	50	56	18.83	18.92	18.93		
20	PI2 BPSK	100	0	19.36	19.44	19.27		
20	QPSK	1	1	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	19.18	20.1	0.0
20	QPSK	50	28	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				834.000	833.000	833.000	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	831.5	841.5		
15	QPSK	1	1	19.09	19.17	19.02	20.1	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				839	831.5	844		
10	QPSK	1	1	19.07	19.22	19.20	20.1	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				816.5	831.5	846.5		
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					2310			
Frequency (MHz)					15.07			
10	PI2 BPSK	1	1		15.00		15.6	0.0
10	PI2 BPSK	1	26		15.08			
10	PI2 BPSK	1	50		14.69		15.6	0.0
10	PI2 BPSK	25	0		14.75		15.6	0.0
10	PI2 BPSK	25	14		14.64		15.6	0.0
10	PI2 BPSK	25	27		14.63			
10	PI2 BPSK	50	0		15.21		15.6	0.0
10	QPSK	1	1		15.05			
10	QPSK	1	26		15.12		15.6	0.0
10	QPSK	1	50		14.76		15.6	0.0
10	QPSK	25	0		14.91		15.6	0.0
10	QPSK	25	14		14.82		15.6	0.0
10	QPSK	25	27		14.88		15.6	0.0
10	QPSK	50	0		14.76		15.6	0.0
10	16QAM	1	1		14.85		15.6	0.0
10	64QAM	1	1		14.78		15.6	0.0
10	256QAM	1	1		14.60		15.6	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2307.5	2310	2312.5		
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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	15.79	15.80	15.77		
40	PI2 BPSK	1	108	15.63	15.68	15.75	17.0	0.0
40	PI2 BPSK	1	214	15.77	15.64	15.52		
40	PI2 BPSK	108	0	15.75	15.57	15.53	17.0	0.0
40	PI2 BPSK	108	54	15.63	15.58	15.64	17.0	0.0
40	PI2 BPSK	108	108	15.71	15.75	15.68		
40	PI2 BPSK	216	0	15.72	15.64	15.77	17.0	0.0
40	QPSK	1	1	15.83	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	15.72		
40	QPSK	108	0	15.83	15.80	15.78	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				349000	349000	353000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.77	15.65	15.70	17.0	0.0
Channel				349000	349000	354000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.65	15.68	15.57	17.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.75	15.76	15.64	17.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.64	15.62	15.73	17.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
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.	
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		14.64		
15	PI/2 BPSK	1	40		14.31		15.6
15	PI/2 BPSK	1	77		14.30		
15	PI/2 BPSK	36	0		14.42		15.6
15	PI/2 BPSK	36	22		14.57		15.6
15	PI/2 BPSK	36	43		14.30		15.6
15	PI/2 BPSK	75	0		14.37		15.6
15	QPSK	1	1		14.71		
15	QPSK	1	40		14.55		15.6
15	QPSK	1	77		14.49		
15	QPSK	36	0		14.49		15.6
15	QPSK	36	22		14.65		15.6
15	QPSK	36	43		14.50		15.6
15	QPSK	75	0		14.62		15.6
15	16QAM	1	1		14.44		15.6
15	64QAM	1	1		14.37		15.6
15	256QAM	1	1		14.23		15.6
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	MPR (dB)
10	QPSK	1	1	14.43	14.32	14.34	15.6
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	MPR (dB)
5	QPSK	1	1	14.42	14.51	14.38	15.6

n71 Main PA Ant1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel					134600	136100	
Frequency (MHz)					673	680.5	688
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
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
20	PI/2 BPSK	50	26	21.31	21.26	21.11	22.8
20	PI/2 BPSK	50	66	21.04	21.17	21.02	22.8
20	PI/2 BPSK	100	0	21.25	21.29	20.85	
20	QPSK	1	1	21.49	21.55	21.38	
20	QPSK	1	53	21.28	21.42	21.18	22.8
20	QPSK	1	104	21.42	21.62	21.22	
20	QPSK	50	0	21.25	21.45	21.31	22.8
20	QPSK	50	26	21.41	21.52	21.35	22.8
20	QPSK	50	66	21.27	21.28	21.24	22.8
20	QPSK	100	0	21.31	21.44	21.10	22.8
20	16QAM	1	1	21.05	21.07	21.14	22.8
20	64QAM	1	1	21.35	21.41	21.35	22.0
20	256QAM	1	1	19.74	19.78	19.68	20.0
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	MPR (dB)
15	QPSK	1	1	21.14	21.08	21.20	22.8
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	MPR (dB)
10	QPSK	1	1	21.08	21.11	21.18	22.8
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	MPR (dB)
5	QPSK	1	1	21.24	21.16	21.16	22.8



n41 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				509202	518998	529000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	15.63	15.50	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	16.6	0.0
100	PI2 BPSK	135	69	15.35	15.40	15.36	16.6	0.0
100	PI2 BPSK	135	138	15.27	15.32	15.31	16.6	0.0
100	PI2 BPSK	270	0	15.31	15.36	15.16		
100	QPSK	1	1	15.72	15.74	15.65		
100	QPSK	1	137	15.45	15.54	15.50	16.6	0.0
100	QPSK	1	271	15.69	15.67	15.46		
100	QPSK	135	0	15.50	15.51	15.55	16.6	0.0
100	QPSK	135	69	15.58	15.63	15.61	16.6	0.0
100	QPSK	135	138	15.49	15.38	15.46		
100	QPSK	270	0	15.47	15.53	15.35	16.6	0.0
100	16QAM	1	1	15.38	15.39	15.54	16.6	0.0
100	64QAM	1	1	15.47	15.46	15.46	16.6	0.0
100	256QAM	1	1	15.36	15.39	15.35	16.6	0.0
Channel				509200	518998	529000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.34	15.60	15.49	16.6	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	15.52	15.57	15.43	16.6	0.0
Channel				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.45	15.46	15.48	16.6	0.0
Channel				505200	518998	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.35	15.47	15.41	16.6	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.00	2592.99	2664.98		
50	QPSK	1	1	15.38	15.38	15.40	16.6	0.0
Channel				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.31	15.57	15.39	16.6	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.32	15.41	15.45	16.6	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.39	15.38	15.50	16.6	0.0

n41 PC2 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518998	529000		
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		
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	18.57	19.6	0.0
100	QPSK	135	138	18.52	18.39	18.34		
100	QPSK	270	0	18.46	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				508200	518998	529998		
Frequency (MHz)				2541	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	2648.99		
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	18.28	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)				2521.00	2592.99	2664.98		
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

n48 Part96 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				639000	641696	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	15.09	15.36	15.25		
40	PI2 BPSK	1	53	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	14.84	14.95	14.84	16.2	0.0
40	PI2 BPSK	100	0	15.00	15.01	14.87		
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	15.18	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	16.2	0.0
40	QPSK	100	0	15.21	15.26	15.04		
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				637664	641696	645556		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	14.93	15.17	14.96	16.2	0.0
Channel				637334	641696	646000		
Frequency (MHz)				3561.01	3624.99	3690		
20	QPSK	1	1	15.01	15.18	14.98	16.2	0.0
Channel				637000	641696	646332		
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	15.09	15.05	15.08	16.2	0.0

Part27O 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)				3750	3840	3930		
100	P12 BPSK	1	1	11.65	11.53	11.51		
100	P12 BPSK	1	137	11.52	11.57	11.55	13.5	0.0
100	P12 BPSK	1	271	11.64	11.58	11.58		
100	P12 BPSK	135	0	11.56	11.72	11.52	13.5	0.0
100	P12 BPSK	135	69	11.58	11.52	11.52	13.5	0.0
100	P12 BPSK	135	138	11.54	11.72	11.55		
100	P12 BPSK	270	0	11.54	11.53	11.53	13.5	0.0
100	QPSK	1	1	11.82	11.96	11.53		
100	QPSK	1	137	11.68	11.51	11.60	13.5	0.0
100	QPSK	1	271	11.62	11.64	11.63		
100	QPSK	135	0	11.62	11.64	11.75	13.5	0.0
100	QPSK	135	69	11.72	11.94	11.53	13.5	0.0
100	QPSK	135	138	11.59	11.64	11.54		
100	QPSK	270	0	11.64	11.77	11.55	13.5	0.0
100	16QAM	1	1	11.54	11.67	11.54	13.5	0.0
100	64QAM	1	1	11.61	11.53	11.56		
100	256QAM	1	1	11.61	11.65	11.56	13.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	11.51	11.52	11.55	13.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	11.51	11.59	11.58	13.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	11.54	11.55	11.57	13.5	0.0
Channel								
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	11.57	11.53	11.52	13.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	11.54	11.58	11.56	13.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3965.02	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	11.55	11.51	11.55	13.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	11.54	11.52	11.56	13.5	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	11.52	11.61	11.58	13.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	11.51	11.52	11.51	13.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	11.57	11.52	11.55	13.5	0.0

Part27O n77 PC2 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	14.73	14.52	14.57		
100	P12 BPSK	1	137	14.53	14.53	14.51	16.5	0.0
100	P12 BPSK	1	271	14.54	14.59	14.53		
100	P12 BPSK	135	0	14.57	14.54	14.55	16.5	0.0
100	P12 BPSK	135	69	14.55	14.59	14.52	16.5	0.0
100	P12 BPSK	135	138	14.57	14.54	14.54		
100	P12 BPSK	270	0	14.53	14.55	14.52	16.5	0.0
100	QPSK	1	1	14.85	14.94	14.99		
100	QPSK	1	137	14.61	14.77	14.61	16.5	0.0
100	QPSK	1	271	14.67	14.74	14.67		
100	QPSK	135	0	14.57	14.69	14.72	16.5	0.0
100	QPSK	135	69	14.54	14.67	14.54	16.5	0.0
100	QPSK	135	138	14.72	14.80	14.52		
100	QPSK	270	0	14.58	14.75	14.56	16.5	0.0
100	16QAM	1	1	14.52	14.59	14.52	16.5	0.0
100	64QAM	1	1	14.63	14.62	14.56	16.5	0.0
100	256QAM	1	1	14.64	14.56	14.55	16.5	0.0
Channel								
Frequency (MHz)				649998	656000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	14.60	14.59	14.51	16.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	14.54	14.59	14.59	16.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	14.99	14.60	14.57	16.5	0.0
Channel								
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	14.55	14.58	14.58	16.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	14.52	14.59	14.55	16.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	14.57	14.60	14.57	16.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.53	14.62	14.53	16.5	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.59	14.62	14.51	16.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.55	14.64	14.61	16.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.53	14.62	14.55	16.5	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	633334	633334		
100	P12 BPSK	1	1		11.94			
100	P12 BPSK	1	137		11.94		13.5	0.0
100	P12 BPSK	1	271		11.82			
100	P12 BPSK	135	0		11.95		13.5	0.0
100	P12 BPSK	135	69		11.95		13.5	0.0
100	P12 BPSK	135	138		11.94			
100	P12 BPSK	270	0		11.73		13.5	0.0
100	QPSK	1	1		12.18			
100	QPSK	1	137		11.98		13.5	0.0
100	QPSK	1	271		11.96			
100	QPSK	135	0		12.10		13.5	0.0
100	QPSK	135	69		12.11		13.5	0.0
100	QPSK	135	138		12.00			
100	QPSK	270	0		12.02		13.5	0.0
100	16QAM	1	1		12.13		13.5	0.0
100	64QAM	1	1		11.89		13.5	0.0
100	256QAM	1	1		11.97		13.5	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	11.86	12.05	11.96	13.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	11.68	11.85	11.85	13.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	11.70	12.00	11.74	13.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	11.83	11.85	11.77	13.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	11.79	11.78	11.72	13.5	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	11.82	11.93	11.87	13.5	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	11.71	11.96	11.86	13.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	11.82	11.92	11.93	13.5	0.0
Channel								
Frequency (MHz)				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	11.81	12.00	11.91	13.5	0.0
Channel								
Frequency (MHz)				630034	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	11.55	11.83	11.85	13.5	0.0

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)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		14.88		16.5		0.0
100	PV2 BPSK	1	137		14.95				
100	PV2 BPSK	1	271		14.78				
100	PV2 BPSK	135	0		14.77		16.5	0.0	
100	PV2 BPSK	135	69		14.93		16.5	0.0	
100	PV2 BPSK	135	138		14.85		16.5	0.0	
100	PV2 BPSK	270	0		14.84				
100	QPSK	1	1		15.16		16.5		
100	QPSK	1	137		14.93				
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				
100	64QAM	1	1		14.79		16.5	0.0	
100	256QAM	1	1		14.78		16.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		14.64	14.70	14.86	16.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		14.61	14.54	14.68	16.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		14.51	14.54	14.77	16.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		14.57	14.59	14.78	16.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		14.53	14.56	14.69	16.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		14.52	14.59	14.64	16.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		14.51	14.60	14.75	16.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		14.54	14.55	14.74	16.5	0.0
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		14.53	14.52	14.87	16.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		14.52	14.54	14.72	16.5	0.0

Part270 n78 Main PA Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000		650000			
Frequency (MHz)				3750		3750			
100	PV2 BPSK	1	1		11.54		13.5	0.0	
100	PV2 BPSK	1	137		11.59				
100	PV2 BPSK	1	271		11.59				
100	PV2 BPSK	135	0		11.58		13.5	0.0	
100	PV2 BPSK	135	69		11.57		13.5	0.0	
100	PV2 BPSK	135	138		11.53		13.5	0.0	
100	PV2 BPSK	270	0		11.51				
100	QPSK	1	1		11.70		13.5	0.0	
100	QPSK	1	137		11.56				
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				
100	64QAM	1	1		11.54		13.5	0.0	
100	256QAM	1	1		11.51		13.5	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		11.54	11.69	11.59	13.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		11.55	11.58	11.56	13.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		11.54	11.66	11.56	13.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		11.55	11.66	11.55	13.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		11.51	11.54	11.59	13.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		11.53	11.58	11.52	13.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		11.57	11.63	11.54	13.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		11.53	11.65	11.52	13.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		11.57	11.56	11.54	13.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705	3750	3795			
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)	
Channel				633334		3500.01			
Frequency (MHz)									
100	PV2 BPSK	1	1		11.84		13.5	0.0	
100	PV2 BPSK	1	137		11.80				
100	PV2 BPSK	1	271		11.89				
100	PV2 BPSK	135	0		11.90		13.5	0.0	
100	PV2 BPSK	135	69		11.87		13.5	0.0	
100	PV2 BPSK	135	138		11.89		13.5	0.0	
100	PV2 BPSK	270	0		11.53				
100	QPSK	1	1		12.06		13.5	0.0	
100	QPSK	1	137		11.82				
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				
100	64QAM	1	1		11.80		13.5	0.0	
100	256QAM	1	1		11.95		13.5	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		12.04	11.96	11.87	13.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		11.93	11.73	11.82	13.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		12.03	11.74	11.70	13.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		11.85	11.91	11.65	13.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		12.02	11.83	11.80	13.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		11.88	11.78	11.69	13.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3538.02			
30	QPSK	1	1		11.97	11.92	11.70	13.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		11.92	11.82	11.85	13.5	0.0
Channel				630334	633334	636368	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3542.52			
15	QPSK	1	1		11.91	11.85	11.73	13.5	0.0
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3450.01	3500.01	3545.01			
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 Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1860	1900		
Frequency (MHz)								
20	PI2 BPSK	1	1	21.63	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	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	21.86	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				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1902.5		
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)				1855	1860	1905		
10	QPSK	1	1	21.75	21.84	21.64	23.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	21.78	21.85	21.60	23.0	0.0

n7 Main PA Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2520	2535	2550		
Frequency (MHz)								
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		
40	QPSK	216	0	22.10	22.13	22.08	23.0	0.0
40	16QAM	1	1	21.89	21.98	21.96	23.0	0.0
40	64QAM	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				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.10	22.21	22.12	23.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.16	22.25	22.14	23.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.10	22.29	22.11	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.12	22.20	22.08	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.15	22.19	22.09	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.10	22.21	22.14	23.0	0.0

n25 Main PA Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376500	Power High Ch. / Freq. 381000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1862.5	1905		
Frequency (MHz)								
20	PI2 BPSK	1	1	21.87	21.85	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	21.76	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	21.67		
20	QPSK	1	53	21.67	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		
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	18.94	18.85	20.0	3.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1862.5	1907.5		
15	QPSK	1	1	21.71	21.93	21.64	23.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1862.5	1910		
10	QPSK	1	1	21.74	21.93	21.64	23.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1862.5	1912.5		
5	QPSK	1	1	21.75	21.86	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				2310					
Frequency (MHz)				2310					
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					
10	QPSK	1	26	21.56			23.0	0.0	
10	QPSK	1	50	21.19			23.0	1.0	
10	QPSK	25	0	21.25					
10	QPSK	25	14	21.38					
10	QPSK	25	27	20.93			22.0	1.0	
10	QPSK	50	0	20.11					
10	16QAM	1	1	20.05					
10	64QAM	1	1	19.32			20.5	2.5	
10	256QAM	1	1	17.50			18.5	4.5	
Channel				481500	482000	482500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5	23.0	0.0	
5	QPSK	1	1	21.64	21.62	21.68	23.0	0.0	

n66 Main PA Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	21.90	21.98	21.94	23.0	0.0	
40	PI2 BPSK	1	108	21.76	21.87	21.78			
40	PI2 BPSK	1	214	21.81	21.88	21.79			
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			
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			
40	QPSK	108	54	22.00	22.08	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			
40	16QAM	1	1	21.84	21.89	21.75			
40	64QAM	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				345000	348000	351000	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	21.98	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			
15	QPSK	1	1	21.62	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				1702.5					
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1		22.26		23.0	0.0	
15	PI2 BPSK	1	40		22.21				
15	PI2 BPSK	1	77		22.05				
15	PI2 BPSK	36	0		22.21		23.0	0.0	
15	PI2 BPSK	36	22		22.18		23.0	0.0	
15	PI2 BPSK	36	43		22.09		23.0	0.0	
15	PI2 BPSK	75	0		22.15				
15	QPSK	1	1		22.29				
15	QPSK	1	40		22.17		23.0	0.0	
15	QPSK	1	77		22.03				
15	QPSK	36	0		22.16		23.0	0.0	
15	QPSK	36	22		22.23		23.0	0.0	
15	QPSK	36	43		22.08		23.0	0.0	
15	QPSK	75	0		22.20		23.0	0.0	
15	16QAM	1	1		22.26		23.0	0.0	
15	64QAM	1	1		20.44		22.0	1.0	
15	256QAM	1	1		18.98		20.0	3.0	
Channel				348000	349500	341000	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	345500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	22.25	22.23	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				506202	518598	528000		
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		
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	22.68	22.72	22.68		
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	22.81	22.95	22.86	24.0	0.0
100	256QAM	1	1	22.30	22.38	22.34	22.5	1.5
Channel				506200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.88	23.18	22.78	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	22.83	23.15	22.83	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.85	23.14	22.78	24.0	0.0
Channel				502200	518598	531098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.88	23.13	22.78	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2644.98		
50	QPSK	1	1	22.85	23.16	22.81	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511.01	2592.99	2670		
40	QPSK	1	1	22.84	23.16	22.80	24.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.86	23.13	22.82	24.0	0.0
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
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				506202	518598	528000		
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		
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	26.16	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	25.76	25.72	27.0	0.0
100	16QAM	1	1	26.12	26.17	26.08	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				503200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.93	26.30	26.07	27.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	25.93	26.29	26.08	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	25.90	26.23	26.09	27.0	0.0
Channel				502200	518598	531098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	25.93	26.29	26.09	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2644.98		
50	QPSK	1	1	25.93	26.23	26.08	27.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510.01	2592.99	2670		
40	QPSK	1	1	25.92	26.25	26.02	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	25.86	26.25	26.03	27.0	0.0
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
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				636000	641666	645332		
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		
40	PI2 BPSK	1	104	22.16	22.23	22.14	24.0	0.0
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	23.5	0.5
40	PI2 BPSK	100	0	22.15	22.23	22.11		
40	QPSK	1	1	22.36	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	22.26	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				637000	641666	645598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3568.01	3624.99	3690		
30	QPSK	1	1	22.23	22.37	22.20	24.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
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.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	22.08	22.08	22.18		23.0	0.0
100	P12 BPSK	1	137	22.18	22.06	22.07			
100	P12 BPSK	1	271	22.01	22.17	22.05			
100	P12 BPSK	135	0	22.19	22.14	22.08	22.5	0.5	
100	P12 BPSK	135	69	22.11	22.13	22.12	23.0	0.0	
100	P12 BPSK	135	138	22.02	22.14	22.03		22.5	0.5
100	P12 BPSK	270	0	22.03	22.08	21.98			
100	QPSK	1	1	22.23	22.03	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		22.0	1.0
100	QPSK	135	0	21.24	21.35	21.25			
100	QPSK	135	69	22.04	22.31	22.02			
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	20.98			
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				656000	662000	668334	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				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.15	22.23	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				649000	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				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.19	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	3972.51			
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	

Part270 n77 PC2 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	24.12	24.79	24.11		26.0	0.0
100	P12 BPSK	1	137	24.06	24.84	24.04			
100	P12 BPSK	1	271	24.12	24.86	24.09			
100	P12 BPSK	135	0	23.63	24.39	23.61	25.5	0.5	
100	P12 BPSK	135	69	24.12	24.94	24.12	26.0	0.0	
100	P12 BPSK	135	138	23.60	24.41	23.61		25.5	0.5
100	P12 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		25.0	1.0
100	QPSK	135	0	23.20	23.93	23.17			
100	QPSK	135	69	24.16	24.91	24.15			
100	QPSK	135	138	23.07	24.01	23.12	25.0	1.0	
100	QPSK	270	0	23.14	23.97	23.18		25.0	1.0
100	16QAM	1	1	23.16	23.85	23.17			
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				649668	656000	662334	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	24.09	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	24.08	26.0	0.0	
Channel				648000	656000	664000	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	3972.51			
15	QPSK	1	1	24.08	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				630000	633334	636668			
Frequency (MHz)				3500.01	3533.34	3566.68			
100	P12 BPSK	1	1	22.31				23.0	0.0
100	P12 BPSK	1	137	22.38					
100	P12 BPSK	1	271	22.37					
100	P12 BPSK	135	0	21.90			22.5	0.5	
100	P12 BPSK	135	69	22.33			23.0	0.0	
100	P12 BPSK	135	138	21.94				22.5	0.5
100	P12 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				22.0	1.0
100	QPSK	135	0	21.43					
100	QPSK	135	69	22.30			23.0	0.0	
100	QPSK	135	138	21.40			22.0	1.0	
100	QPSK	270	0	21.46				22.0	1.0
100	16QAM	1	1	21.38					
100	64QAM	1	1	19.96			20.5	2.5	
100	256QAM	1	1	17.87			18.5	4.5	
Channel				633000	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	22.34	22.23	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.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	25.48			26.0	0.0	
100	PI2 BPSK	1	137	25.48					
100	PI2 BPSK	1	271	25.48					
100	PI2 BPSK	135	0	25.14			25.5	0.5	
100	PI2 BPSK	135	69	25.45			26.0	0.0	
100	PI2 BPSK	135	138	25.50			25.5	0.5	
100	PI2 BPSK	270	0	25.13					
100	QPSK	1	1	25.59			26.0	0.0	
100	QPSK	1	137	25.50					
100	QPSK	1	271	25.51					
100	QPSK	135	0	24.60			25.0	1.0	
100	QPSK	135	69	25.40			26.0	0.0	
100	QPSK	135	138	24.55			25.0	1.0	
100	QPSK	270	0	24.59					
100	16QAM	1	1	24.60			25.0	1.0	
100	64QAM	1	1	23.07			23.5	2.5	
100	256QAM	1	1	21.13			21.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	25.36	25.45	25.31	26.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.02	3500.01	3507.00			
80	QPSK	1	1	25.45	25.49	25.33	26.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	25.36	25.56	25.42	26.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	25.36	25.54	25.42	26.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525.02			
50	QPSK	1	1	25.42	25.45	25.32	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	25.48	25.53	25.37	26.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	25.46	25.47	25.33	26.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540.02			
20	QPSK	1	1	25.41	25.47	25.33	26.0	0.0	
Channel				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	25.42	25.53	25.35	26.0	0.0	
Channel				630034	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
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				3750					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	21.55			23.0	0.0	
100	PI2 BPSK	1	137	21.49					
100	PI2 BPSK	1	271	21.45					
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	21.06					
100	QPSK	1	1	20.63			22.0	1.0	
100	QPSK	1	137	20.61					
100	QPSK	1	271	20.60					
100	QPSK	135	0	19.84			21.0	2.0	
100	QPSK	135	69	20.56			22.0	1.0	
100	QPSK	135	138	19.78			21.0	2.0	
100	QPSK	270	0	19.75					
100	16QAM	1	1	20.04			22.0	1.0	
100	64QAM	1	1	18.67			20.5	2.5	
100	256QAM	1	1	17.09			18.5	4.5	
Channel				648668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1	21.47	21.50	21.48	23.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.01	3750	3760.02			
80	PI2 BPSK	1	1	21.51	21.46	21.51	23.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1	21.48	21.42	21.51	23.0	0.0	
Channel				647668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1	21.47	21.47	21.50	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1	21.50	21.45	21.40	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1	21.48	21.41	21.45	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1	21.50	21.45	21.43	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1	21.42	21.48	21.49	23.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3822.51			
15	PI2 BPSK	1	1	21.42	21.46	21.43	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
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				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	22.14			23.0	0.0	
100	PI2 BPSK	1	137	22.05					
100	PI2 BPSK	1	271	22.06					
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	21.46					
100	QPSK	1	1	21.29			23.0	0.0	
100	QPSK	1	137	21.09					
100	QPSK	1	271	21.05					
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	20.26					
100	16QAM	1	1	20.55			22.0	1.0	
100	64QAM	1	1	19.06			20.5	2.5	
100	256QAM	1	1	18.01			18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1	22.04	22.04	22.05	23.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3493.02	3500.01	3510			
80	PI2 BPSK	1	1	22.02	22.09	22.08	23.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1	22.01	21.98	22.05	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.00	3500.01	3510.02			
60	PI2 BPSK	1	1	22.00	22.08	22.09	23.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1	22.08	22.05	21.80	23.0	0.0	
Channel				3485	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3473.34	3500.01	3513.34			
40	PI2 BPSK	1	1	22.04	22.00	22.01	23.0	0.0	
Channel				631200	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3515.02			
30	PI2 BPSK	1	1	22.07	22.07	22.03	23.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.02	3500.01	3523			
20	PI2 BPSK	1	1	22.02	22.05	22.09	23.0	0.0	
Channel				630200	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3449.59	3500.01	3542.52			
15	PI2 BPSK	1	1	22.07	22.08	22.08	23.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
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. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1860	1900		
Frequency (MHz)								
20	PI2 BPSK	1	1	15.62	15.48	15.48		
20	PI2 BPSK	1	53	15.49	15.54	15.35		
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	15.58	15.75	15.58		
20	QPSK	1	53	15.47	15.74	15.26	17.2	0.0
20	QPSK	1	104	15.51	15.84	15.47		
20	QPSK	50	0	15.44	15.39	15.54	17.2	0.0
20	QPSK	50	28	15.50	15.85	15.45	17.2	0.0
20	QPSK	50	56	15.41	15.45	15.27		
20	QPSK	100	0	15.44	15.28	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	1902.5		
15	QPSK	1	1	15.28	15.30	15.21	17.2	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	15.24	15.29	15.41	17.2	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	15.33	15.29	15.42	17.2	0.0

n7 Main PA Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 504000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 510000	Tune-up limit (dBm)	MPR (dB)
Channel				2520	2535	2550		
Frequency (MHz)								
40	PI2 BPSK	1	1	14.72	14.81	14.78		
40	PI2 BPSK	1	108	14.57	14.63	14.37		
40	PI2 BPSK	1	214	14.26	14.38	14.32		
40	PI2 BPSK	108	0	14.55	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	14.58	16.1	0.0
40	QPSK	1	1	14.87	14.88	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		
30	QPSK	1	1	14.23	14.55	14.23	16.1	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	14.20	14.54	14.35	16.1	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	14.20	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		
15	QPSK	1	1	14.25	14.47	14.42	16.1	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.21	14.53	14.30	16.1	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.27	14.66	14.33	16.1	0.0

n25 Main PA Ant3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 381000	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1862.5	1905		
Frequency (MHz)								
20	PI2 BPSK	1	1	15.68	15.71	15.52		
20	PI2 BPSK	1	53	15.62	15.68	15.40		
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	15.45	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	15.58	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	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1862.5	1907.5		
15	QPSK	1	1	15.64	15.54	15.54	17.2	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1862.5	1910		
10	QPSK	1	1	15.59	15.55	15.52	17.2	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1862.5	1912.5		
5	QPSK	1	1	15.50	15.72	15.49	17.2	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)				2310					
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			16.5	0.0	
10	PI2 BPSK	50	0	15.10					
10	QPSK	1	1	15.29					
10	QPSK	1	26	15.09			16.5	0.0	
10	QPSK	1	50	15.17			16.5	0.0	
10	QPSK	25	0	15.04					
10	QPSK	25	14	15.21					
10	QPSK	25	27	15.14			16.5	0.0	
10	QPSK	50	0	15.15					
10	16QAM	1	1	15.04					
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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	16.35	16.43	16.20	17.6	0.0	
40	PI2 BPSK	1	108	16.02	16.09	16.18			
40	PI2 BPSK	1	214	16.10	16.09	16.17			
40	PI2 BPSK	108	0	16.11	16.31	15.98	17.6	0.0	
40	PI2 BPSK	108	54	16.29	16.20	16.05	17.6	0.0	
40	PI2 BPSK	108	108	16.06	16.31	16.00	17.6	0.0	
40	PI2 BPSK	216	0	16.16	16.23	16.19			
40	QPSK	1	1	16.55	16.56	16.40			
40	QPSK	1	108	16.27	16.33	16.33	17.6	0.0	
40	QPSK	1	214	16.30	16.36	16.25	17.6	0.0	
40	QPSK	108	0	16.30	16.43	16.23			
40	QPSK	108	54	16.37	16.44	16.22			
40	QPSK	108	108	16.26	16.37	16.13	17.6	0.0	
40	QPSK	216	0	16.26	16.37	16.36			
40	16QAM	1	1	16.04	16.32	15.96			
40	64QAM	1	1	16.13	16.29	15.97	17.6	0.0	
40	256QAM	1	1	16.04	16.21	16.05	17.6	0.0	
Channel				345000	348000	351000	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	15.09	16.29	16.02	17.6	0.0	
Channel				343000	349000	355000	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)				1702.5					
15	PI2 BPSK	1	1	16.10			17.0	0.0	
15	PI2 BPSK	1	40	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			17.0	0.0	
15	PI2 BPSK	75	0	15.96					
15	QPSK	1	1	16.27					
15	QPSK	1	40	16.17			17.0	0.0	
15	QPSK	1	77	16.04			17.0	0.0	
15	QPSK	36	0	16.02					
15	QPSK	36	22	16.10					
15	QPSK	36	43	15.99			17.0	0.0	
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				348000	349500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	15.94	16.13	16.04	17.0	0.0	
Channel				339500	349500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	15.99	16.03	16.13	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				506202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	14.39	14.74	14.23		
100	PI2 BPSK	1	137	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	14.58	14.75	14.62	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		
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		
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	14.26	14.08	15.8	0.0
Channel				506200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.37	14.82	14.19	15.8	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	14.34	14.70	14.17	15.8	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.51	14.63	14.22	15.8	0.0
Channel				502200	518598	531098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.36	14.63	14.17	15.8	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2644.98		
50	QPSK	1	1	14.37	14.76	14.28	15.8	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511.01	2592.99	2670		
40	QPSK	1	1	14.34	14.67	14.18	15.8	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.32	14.81	14.18	15.8	0.0
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)
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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506202	518598	528000		
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		
100	QPSK	1	1	17.42	17.93	17.68		
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	17.36		
100	16QAM	1	1	17.26	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				506200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.36	17.41	17.13	18.8	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2643.99		
80	QPSK	1	1	17.42	17.59	17.24	18.8	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.42	17.50	17.19	18.8	0.0
Channel				502200	518598	531098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.45	17.45	17.18	18.8	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2644.98		
50	QPSK	1	1	17.29	17.52	17.26	18.8	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.37	17.59	17.29	18.8	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.36	17.50	17.19	18.8	0.0
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.34	17.49	17.15	18.8	0.0

n48 Part96 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				636000	641666	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	14.31	14.34	14.08		
40	PI2 BPSK	1	53	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	14.06	14.36	14.39	15.5	0.0
40	PI2 BPSK	100	0	14.28	14.24	13.97		
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		
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				637000	641666	645598	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	14.27	14.04	14.19	15.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3562.01	3624.99	3690		
20	QPSK	1	1	14.12	14.13	14.06	15.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
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	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	14.01	13.96	13.79	15.7	0.0
100	PI2 BPSK	1	137	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	0.0
100	PI2 BPSK	135	69	13.71	13.85	13.85	15.7	0.0
100	PI2 BPSK	135	138	13.74	13.98	13.80	15.7	0.0
100	PI2 BPSK	270	0	13.83	13.79	13.79	15.7	0.0
100	QPSK	1	1	14.14	14.22	13.95		
100	QPSK	1	137	13.92	14.15	14.00	15.7	0.0
100	QPSK	1	271	13.79	14.16	13.98		
100	QPSK	135	0	13.89	14.02	14.01	15.7	0.0
100	QPSK	135	69	13.93	14.21	14.03	15.7	0.0
100	QPSK	135	138	13.79	13.95	13.83	15.7	0.0
100	QPSK	270	0	13.84	14.03	13.90		
100	16QAM	1	1	13.78	13.76	13.82	15.7	0.0
100	64QAM	1	1	13.78	13.77	13.90	15.7	0.0
100	256QAM	1	1	13.77	13.91	13.84	15.7	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	15.7	0.0
90	QPSK	1	1	13.75	13.87	13.87	15.7	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3930.02	15.7	0.0
80	QPSK	1	1	13.77	13.90	13.92	15.7	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3935	15.7	0.0
70	QPSK	1	1	13.86	13.86	13.96	15.7	0.0
Channel				649568	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3940.01	15.7	0.0
60	QPSK	1	1	13.77	13.88	13.93	15.7	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	15.7	0.0
50	QPSK	1	1	13.75	13.85	13.77	15.7	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	15.7	0.0
40	QPSK	1	1	13.79	13.95	13.82	15.7	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	15.7	0.0
30	QPSK	1	1	13.71	13.76	13.89	15.7	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	15.7	0.0
20	QPSK	1	1	13.80	13.84	13.85	15.7	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3697.52	3840	3972.51	15.7	0.0
15	QPSK	1	1	13.76	13.98	13.92	15.7	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	15.7	0.0
10	QPSK	1	1	13.88	13.77	13.80	15.7	0.0

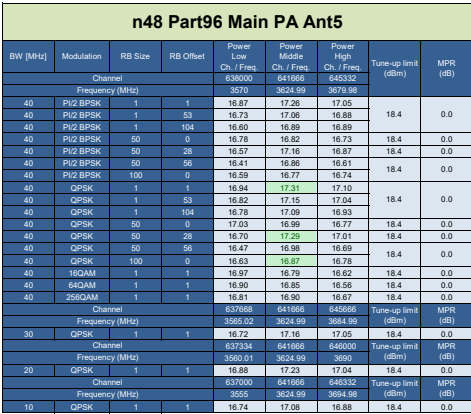
Part27O n77 PC2 Main PA Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.83	17.34	16.97	18.7	0.0
100	PI2 BPSK	1	137	16.81	17.13	16.85		
100	PI2 BPSK	1	271	16.96	17.16	16.74	18.7	0.0
100	PI2 BPSK	135	0	16.87	16.85	16.76		
100	PI2 BPSK	135	69	16.72	16.95	16.78	18.7	0.0
100	PI2 BPSK	135	138	16.71	16.89	16.73		
100	PI2 BPSK	270	0	16.77	16.90	16.75	18.7	0.0
100	QPSK	1	1	17.05	17.38	17.21		
100	QPSK	1	137	16.96	17.29	16.97	18.7	0.0
100	QPSK	1	271	17.01	17.37	16.90		
100	QPSK	135	0	16.90	17.00	16.94	18.7	0.0
100	QPSK	135	69	16.75	17.17	16.84		
100	QPSK	135	138	16.85	17.08	16.86	18.7	0.0
100	QPSK	270	0	16.91	17.02	16.99		
100	16QAM	1	1	16.88	17.14	16.83	18.7	0.0
100	64QAM	1	1	16.98	17.19	16.73		
100	256QAM	1	1	16.97	17.22	16.75	18.7	0.0
Channel				649668	656000	662334		
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	16.86	17.26	16.81	18.7	0.0
Channel				649334	656000	662668	18.7	0.0
Frequency (MHz)				3740.01	3840	3930.02		
80	QPSK	1	1	16.85	17.16	16.84	18.7	0.0
Channel				649000	656000	663000	18.7	0.0
Frequency (MHz)				3735	3840	3935		
70	QPSK	1	1	16.94	17.22	16.72	18.7	0.0
Channel				648668	656000	663334	18.7	0.0
Frequency (MHz)				3730.02	3840	3940.01		
60	QPSK	1	1	16.81	17.27	16.77	18.7	0.0
Channel				648334	656000	663668	18.7	0.0
Frequency (MHz)				3725.01	3840	3950.02		
50	QPSK	1	1	16.97	17.20	16.88	18.7	0.0
Channel				648000	656000	664000	18.7	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.82	17.44	16.73	18.7	0.0
Channel				647668	656000	664334	18.7	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.81	17.12	16.77	18.7	0.0
Channel				647234	656000	664668	18.7	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.83	17.12	16.75	18.7	0.0
Channel				647168	656000	664834	18.7	0.0
Frequency (MHz)				3697.52	3840	3972.51		
15	QPSK	1	1	16.76	17.29	16.85	18.7	0.0
Channel				647000	656000	665000	18.7	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.78	17.12	16.74	18.7	0.0

Part27Q n77 Main PA Ant3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)
Channel				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		14.31		15.7	0.0
100	PI2 BPSK	1	137		14.08			
100	PI2 BPSK	1	271		14.09		15.7	0.0
100	PI2 BPSK	135	0		13.98			
100	PI2 BPSK	135	69		14.12		15.7	0.0
100	PI2 BPSK	135	138		13.89			
100	PI2 BPSK	270	0		14.01		15.7	0.0
100	QPSK	1	1		14.43			
100	QPSK	1	137		14.28		15.7	0.0
100	QPSK	1	271		14.25			
100	QPSK	135	0		14.16		15.7	0.0
100	QPSK	135	69		14.36			
100	QPSK	135	138		14.16		15.7	0.0
100	QPSK	270	0		14.15			
100	16QAM	1	1		14.06		15.7	0.0
100	64QAM	1	1		13.99			
100	256QAM	1	1		13.93		15.7	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	Tune-up limit (dbm)	MPR (db)
90	QPSK	1	1	14.29	14.33	14.30	15.7	0.0
Channel				632668	633334	634000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3490.02	3500.01	3510	15.7	0.0
80	QPSK	1	1	14.25	14.27	14.25	15.7	0.0
Channel				632334	633334	634334	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3485.01	3500.01	3515.01	15.7	0.0
70	QPSK	1	1	14.24	14.28	14.37	15.7	0.0
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3480	3500.01	3520.02	15.7	0.0
60	QPSK	1	1	14.21	14.33	14.37	15.7	0.0
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3475.02	3500.01	3525	15.7	0.0
50	QPSK	1	1	14.34	14.26	14.51	15.7	0.0
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3470.01	3500.01	3530.01	15.7	0.0
40	QPSK	1	1	14.37	14.22	14.33	15.7	0.0
Channel				631000	633334	635668	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3465	3500.01	3536.02	15.7	0.0
30	QPSK	1	1	14.22	14.33	14.37	15.7	0.0
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3450.02	3500.01	3540	15.7	0.0
20	QPSK	1	1	14.25	14.30	14.27	15.7	0.0
Channel				630334	633334	636168	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3457.5	3500.01	3542.52	15.7	0.0
15	QPSK	1	1	14.34	14.28	14.27	15.7	0.0
Channel				3454.5	633334	636334	Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				3455.01	3500.01	3545.01	15.7	0.0
10	QPSK	1	1	14.30	14.37	14.32	15.7	0.0

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				633334					
Frequency (MHz)				3500.01					
100	P1/2 BPSK	1	1	17.47			18.7	0.0	
100	P1/2 BPSK	1	137	17.25					
100	P1/2 BPSK	1	271	17.20					
100	P1/2 BPSK	135	0	17.30			18.7	0.0	
100	P1/2 BPSK	135	69	17.19			18.7	0.0	
100	P1/2 BPSK	135	138	17.10			18.7	0.0	
100	P1/2 BPSK	270	0	17.13					
100	QPSK	1	1	17.52			18.7	0.0	
100	QPSK	1	137	17.40					
100	QPSK	1	271	17.43					
100	QPSK	135	0	17.39			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					
100	64QAM	1	1	17.22			18.7	0.0	
100	256QAM	1	1	17.29			18.7	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.35	17.37	17.22	18.7	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1	17.26	17.43	17.43	18.7	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.35	17.34	17.40	18.7	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	17.25	17.42	17.24	18.7	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3505.01			
50	QPSK	1	1	17.36	17.31	17.34	18.7	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.27	17.48	17.28	18.7	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.40	17.40	17.23	18.7	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.24	17.50	17.22	18.7	0.0	
Channel				630334	633334	636168	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3457.15	3500.01	3542.82			
15	QPSK	1	1	17.35	17.41	17.40	18.7	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	17.35	17.48	17.24	18.7	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				660000					
Frequency (MHz)				3750					
100	P1/2 BPSK	1	1	13.92			15.7	0.0	
100	P1/2 BPSK	1	137	13.71					
100	P1/2 BPSK	1	271	13.71					
100	P1/2 BPSK	135	0	13.77			15.7	0.0	
100	P1/2 BPSK	135	69	13.72			15.7	0.0	
100	P1/2 BPSK	135	138	13.77			15.7	0.0	
100	P1/2 BPSK	270	0	13.77					
100	QPSK	1	1	13.95			15.7	0.0	
100	QPSK	1	137	13.73					
100	QPSK	1	271	13.73					
100	QPSK	135	0	13.76			15.7	0.0	
100	QPSK	135	69	13.80			15.7	0.0	
100	QPSK	135	138	13.79			15.7	0.0	
100	QPSK	270	0	13.85			15.7	0.0	
100	16QAM	1	1	13.77					
100	64QAM	1	1	13.75			15.7	0.0	
100	256QAM	1	1	13.78			15.7	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.77	13.75	13.78	15.7	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	13.74	13.77	13.76	15.7	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.71	13.85	13.71	15.7	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	13.71	13.75	13.74	15.7	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	13.77	13.82	13.74	15.7	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.73	13.77	13.78	15.7	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	13.74	13.77	13.76	15.7	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	13.75	13.84	13.75	15.7	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	13.72	13.73	13.85	15.7	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	13.73	13.78	13.77	15.7	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				633334					
Frequency (MHz)				3500.01					
100	P1/2 BPSK	1	1	14.11			15.7	0.0	
100	P1/2 BPSK	1	137	13.90					
100	P1/2 BPSK	1	271	13.98					
100	P1/2 BPSK	135	0	13.91			15.7	0.0	
100	P1/2 BPSK	135	69	13.87			15.7	0.0	
100	P1/2 BPSK	135	138	13.77			15.7	0.0	
100	P1/2 BPSK	270	0	13.77					
100	QPSK	1	1	14.40			15.7	0.0	
100	QPSK	1	137	14.17					
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	14.09			15.7	0.0	
100	16QAM	1	1	13.93					
100	64QAM	1	1	13.82			15.7	0.0	
100	256QAM	1	1	13.72			15.7	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	14.16	14.14	14.08	15.7	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1	14.26	14.27	14.19	15.7	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	14.12	14.18	14.17	15.7	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	14.25	14.20	14.18	15.7	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525.01			
50	QPSK	1	1	14.07	14.29	14.29	15.7	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	14.25	14.27	14.20	15.7	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	14.11	14.25	14.18	15.7	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.02	3500.01	3540.01			
20	QPSK	1	1	14.19	14.31	14.13	15.7	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	14.24	14.18	14.15	15.7	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3451.01	3500.01	3545.01			
10	QPSK	1	1	14.25	14.15	14.16	15.7	0.0	



Part270 n77 PC2 Main PA Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 650000	Power Middle Ch / Freq. 655000	Power High Ch / Freq. 660000	Tune-up limit (dBm)	MRR (dB)	
	Channel Frequency (MHz)			3640	3750	3900			
100	P12 BPSK	1	1	18.64	18.72	18.30			
	Channel			18.36	18.82	18.20	20.0	0.0	
100	P12 BPSK	1	271	18.36	18.60	18.18			
	Channel			18.24	18.66	18.34	20.0	0.0	
100	P12 BPSK	135	0	18.36	18.66	18.18	20.0	0.0	
100	P12 BPSK	135	138	18.32	18.64	18.22	20.0	0.0	
100	P12 BPSK	135	138	18.28	18.60	18.24	20.0	0.0	
100	P12 BPSK	270	0	18.48	18.64	18.15			
40	QPSK	1	1	18.67	18.82	18.40			
	Channel			18.64	18.88	18.38	20.0	0.0	
40	QPSK	1	271	18.54	18.85	18.28			
40	QPSK	135	0	18.49	18.69	18.61	20.0	0.0	
40	QPSK	135	138	18.58	18.70	18.34	20.0	0.0	
40	QPSK	135	138	18.49	18.67	18.47			
40	QPSK	270	0	18.63	18.68	18.33			
100	16QAM	1	1	18.29	18.72	18.01	20.0	0.0	
100	64QAM	1	1	18.43	18.74	18.10	20.0	0.0	
100	256QAM	1	1	18.29	18.61	18.02	20.0	0.0	
	Channel			649668	655000	662334	Tune-up limit	MRR	
	Frequency (MHz)			3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	18.24	18.52	18.07			
	Channel			649334	655000	662668	Tune-up limit	MRR	
	Frequency (MHz)			3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	18.30	18.60	18.03	20.0	0.0	
	Channel			649000	655000	663000	Tune-up limit	MRR	
	Frequency (MHz)			3735.01	3840	3945.00	(dBm)	(dB)	
70	QPSK	1	1	18.26	18.49	18.06	20.0	0.0	
	Channel			648668	655000	663334	Tune-up limit	MRR	
	Frequency (MHz)			3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	18.22	18.57	18.10			
	Channel			648334	655000	663668	Tune-up limit	MRR	
	Frequency (MHz)			3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	18.43	18.44	18.07	20.0	0.0	
	Channel			648000	655000	664000	Tune-up limit	MRR	
	Frequency (MHz)			3720.00	3840	3960.00	(dBm)	(dB)	
40	QPSK	1	1	18.26	18.38	18.10	20.0	0.0	
	Channel			647668	655000	664334	Tune-up limit	MRR	
	Frequency (MHz)			3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	18.35	18.37	18.10	20.0	0.0	
	Channel			647334	655000	664668	Tune-up limit	MRR	
	Frequency (MHz)			3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	18.26	18.40	18.08	20.0	0.0	
	Channel			647000	655000	665000	Tune-up limit	MRR	
	Frequency (MHz)			3705.02	3840	3975.01	(dBm)	(dB)	
15	QPSK	1	1	18.32	18.53	18.09	20.0	0.0	
	Channel			647000	655000	665000	Tune-up limit	MRR	
	Frequency (MHz)			3705.02	3840	3975.01	(dBm)	(dB)	
10	QPSK	1	1	18.24	18.59	18.09	20.0	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	P12 BPSK	1	1		15.68			17.0	0.0
100	P12 BPSK	1	137		15.77				
100	P12 BPSK	1	271		15.81				
100	P12 BPSK	135	0		15.72		17.0	0.0	
100	P12 BPSK	135	69		15.67		17.0	0.0	
100	P12 BPSK	135	138		15.63		17.0	0.0	
100	P12 BPSK	270	0		15.53		17.0	0.0	
100	QPSK	1	1		15.90			17.0	0.0
100	QPSK	1	137		15.83				
100	QPSK	1	271		15.86				
100	QPSK	135	0		15.80		17.0	0.0	
100	QPSK	135	69		15.80		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				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		15.68	15.72	15.71	17.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489.02	3500.01	3510			
80	QPSK	1	1		15.66	15.65	15.65	17.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		15.81	15.77	15.84	17.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		15.78	15.72	15.82	17.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		15.77	15.79	15.81	17.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		15.84	15.75	15.84	17.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		15.70	15.84	15.83	17.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		15.66	15.79	15.89	17.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3459.5	3500.01	3542.52			
15	QPSK	1	1		15.84	15.83	15.81	17.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		15.68	15.72	15.81	17.0	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	P12 BPSK	1	1		18.81			20.0	0.0
100	P12 BPSK	1	137		18.68				
100	P12 BPSK	1	271		18.58				
100	P12 BPSK	135	0		18.46		20.0	0.0	
100	P12 BPSK	135	69		18.54		20.0	0.0	
100	P12 BPSK	135	138		18.50		20.0	0.0	
100	P12 BPSK	270	0		18.55		20.0	0.0	
100	QPSK	1	1		18.87			20.0	0.0
100	QPSK	1	137		18.76				
100	QPSK	1	271		18.68				
100	QPSK	135	0		18.72		20.0	0.0	
100	QPSK	135	69		18.70		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		18.64		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				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		18.45	18.41	18.47	20.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		18.05	18.48	18.45	20.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		18.02	18.46	18.42	20.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		18.48	18.49	18.52	20.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		18.59	18.43	18.45	20.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		18.66	18.51	18.47	20.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		18.66	18.53	18.57	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.58	18.47	18.55	20.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3459.5	3500.01	3542.52			
15	QPSK	1	1		18.58	18.40	18.45	20.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		18.46	18.47	18.54	20.0	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 (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	P12 BPSK	1	1		15.62		17.0	0.0	
100	P12 BPSK	1	137		15.52				
100	P12 BPSK	1	271		15.62				
100	P12 BPSK	135	0		15.60		17.0	0.0	
100	P12 BPSK	135	69		15.52		17.0	0.0	
100	P12 BPSK	135	138		15.39		17.0	0.0	
100	P12 BPSK	270	0		15.41		17.0	0.0	
100	QPSK	1	1		15.79		17.0	0.0	
100	QPSK	1	137		15.75				
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				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		15.44	15.34	15.16	17.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		15.52	15.43	15.19	17.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		15.48	15.45	15.20	17.0	0.0
Channel				647668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		15.35	15.33	15.19	17.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		15.46	15.39	15.04	17.0	0.0
Channel				648000	650000	650500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		15.56	15.54	15.21	17.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		15.47	15.42	15.24	17.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		15.52	15.31	15.06	17.0	0.0
Channel				647168	652000	326534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		15.43	15.46	15.23	17.0	0.0
Channel				647000	652000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		15.46	15.47	15.21	17.0	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 (dB)
Channel				633334			17.0	0.0
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	15.47			17.0	0.0
100	PI2 BPSK	1	137	15.50				
100	PI2 BPSK	1	271	15.62			17.0	0.0
100	PI2 BPSK	135	0	15.54				
100	PI2 BPSK	135	69	15.42			17.0	0.0
100	PI2 BPSK	135	138	15.37				
100	PI2 BPSK	270	0	15.43			17.0	0.0
100	QPSK	1	1	15.82				
100	QPSK	1	137	15.89			17.0	0.0
100	QPSK	1	271	15.75				
100	QPSK	135	0	15.85			17.0	0.0
100	QPSK	135	69	15.81				
100	QPSK	135	138	15.67			17.0	0.0
100	QPSK	270	0	15.51				
100	16QAM	1	1	15.80			17.0	0.0
100	64QAM	1	1	15.84				
100	256QAM	1	1	15.58			17.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	15.58	15.47	15.58	17.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3520.02	(dBm)	(dB)
80	QPSK	1	1	15.59	15.49	15.55	17.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	15.49	15.60	15.54	17.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	1	15.49	15.58	15.64	17.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	15.50	15.47	15.55	17.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	15.59	15.52	15.67	17.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	1	15.59	15.55	15.48	17.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	15.42	15.55	15.57	17.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)
15	QPSK	1	1	15.54	15.54	15.66	17.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)
10	QPSK	1	1	15.47	15.65	15.45	17.0	0.0



Reduced Power Mode for Main PA DSI10

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				1860	1880	1900	16.1	0.0	
Frequency (MHz)				37200	37600	38000			
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	15.06	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	16.1	0.0	
20	QPSK	50	0	15.01	15.09	14.98			
20	QPSK	50	28	15.01	15.13	15.04		0.0	
20	QPSK	50	56	15.00	14.99	15.00	16.1	0.0	
20	QPSK	100	0	14.84	15.02	14.92	16.1	0.0	
20	8QAM	1	1	14.67	14.85	14.77			
20	8QAM	1	1	14.70	14.92	14.88		0.0	
20	256QAM	1	1	14.74	14.81	14.77	16.1	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	14.85	14.94	14.94	16.1	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	14.98	14.98	15.01	16.1	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
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				166000	167000	167800	22.2	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	21.00	21.24	21.06	22.2	0.0	
20	PI2 BPSK	1	53	20.99	20.91	20.76			
20	PI2 BPSK	1	104	20.88	21.08	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	20.88			
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	22.2	0.0	
20	QPSK	50	0	20.95	21.18	20.96			
20	QPSK	50	28	21.03	21.32	20.93		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	22.2	0.0	
20	16QAM	1	1	20.96	20.94	20.86			
20	64QAM	1	1	20.92	20.90	20.89		0.0	
20	256QAM	1	1	20.10	20.15	20.08	20.5	1.7	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.2	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	20.93	21.13	20.85	22.2	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	20.90	21.17	20.98	22.2	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)	
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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	14.03	14.35	13.99	15.6	0.0	
40	PI2 BPSK	1	108	13.90	14.05	13.97			
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	13.96	15.6	0.0	
40	PI2 BPSK	108	108	13.84	13.84	13.85	15.6	0.0	
40	PI2 BPSK	216	0	14.00	14.05	14.00			
40	QPSK	1	1	14.16	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		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	15.6	0.0	
40	16QAM	1	1	14.01	13.96	13.91			
40	64QAM	1	1	14.02	13.88	13.96		0.0	
40	256QAM	1	1	14.03	14.03	14.03	15.6	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	13.91	13.99	14.00	15.6	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	13.89	14.02	13.91	15.6	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	PI2 BPSK	1	1	13.95	13.97	13.95	15.6	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	13.97	13.98	13.94	15.6	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	13.89	14.06	14.01	15.6	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
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				141300	141500	141700	24.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	23.32	23.35	23.26	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	23.16	24.0	0.0	
15	QPSK	1	1	23.27	23.37	23.29			
15	QPSK	1	40	23.14	23.22	23.16			
15	QPSK	1	77	23.05	23.13	23.07	24.0	0.0	
15	QPSK	36	0	23.19	23.26	23.20			
15	QPSK	36	22	23.23	23.32	23.28			
15	QPSK	36	43	23.08	23.13	23.10	24.0	0.0	
15	QPSK	75	0	23.14	23.24	23.21	24.0	0.0	
15	ISQAM	1	1	23.11	23.17	23.08			
15	ISQAM	1	1	22.00	22.02	21.95	22.5	1.5	
25GQAM	1	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	24.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	23.25	23.34	23.26	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	24.0 <td colspan="2">0.0</td>	0.0	
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				156800			24.0	0.0	
Frequency (MHz)				793					
10	PI2 BPSK	1	1		23.38		24.0	0.0	
10	PI2 BPSK	1	26		23.32				
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				
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		24.0	0.0	
10	64QAM	1	1		23.46		24.0	0.0	
10	64QAM	1	1		22.50		23.0	1.0	
10	256QAM	1	1		20.97		21.0	3.0	
Channel				158100	158800	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5	24.0	0.0	
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				372000	376500	381000	18.1	0.0	
Frequency (MHz)				1860	1882.5	1905			
20	PI2 BPSK	1	1	16.57	16.73	16.46	18.1	0.0	
20	PI2 BPSK	1	53	16.59	16.47	16.46			
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	16.33		18.1	
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	18.1	0.0	
20	16QAM	1	1	16.27	16.46	16.35			
20	64QAM	1	1	16.25	16.52	16.42		18.1	
20	256QAM	1	1	16.31	16.45	16.33	18.1	0.0	
Channel				371500	376500	381500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)	
15	QPSK	1	1	16.60	16.69	16.52	18.1	0.0	
Channel				371000	376500	382000	Tune-up limit	MPR	
Frequency (MHz)				1855	1882.5	1910	(dBm)	(dB)	
10	QPSK	1	1	16.88	16.67	16.57	18.1	0.0	
Channel				370500	376500	382500	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1882.5	1912.5	(dBm)	(dB)	
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				164900	166900	167900	22.2	0.0	
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	21.05	21.37	21.12	22.2	0.0	
20	PI/2 BPSK	1	53	21.06	20.97	20.81			
20	PI/2 BPSK	1	104	20.94	21.13	20.97			
20	PI/2 BPSK	50	0	20.88	21.20	20.94	22.2	0.0	
20	PI/2 BPSK	50	28	21.12	21.32	20.87	22.2	0.0	
20	PI/2 BPSK	50	56	21.09	21.06	20.89	22.2	0.0	
20	PI/2 BPSK	100	0	21.05	21.26	21.02			
20	QPSK	1	1	21.18	21.46	21.15			
20	QPSK	1	53	21.11	21.06	20.93	22.2	0.0	
20	QPSK	1	104	20.96	21.23	20.99			
20	QPSK	50	0	21.02	21.29	21.01	22.2	0.0	
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	22.2	0.0	
20	256QAM	1	1	20.09	20.26	20.09	20.4	1.8	
Channel				164300	166300	168300	Tune-up limit	MPR	
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	21.03	21.12	21.00	22.2	0.0	
Channel				163800	166300	168800	Tune-up limit	MPR	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	21.02	21.08	20.91	22.2	0.0	
Channel				163300	166300	169300	Tune-up limit	MPR	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
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				462000	463000		19.3	0.0	
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		18.11		19.3	0.0	
10	PI/2 BPSK	1	26		18.03				
10	PI/2 BPSK	1	50		17.94				
10	PI/2 BPSK	25	0		17.96		19.3	0.0	
10	PI/2 BPSK	25	14		18.06		19.3	0.0	
10	PI/2 BPSK	25	27		17.80		19.3	0.0	
10	PI/2 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		19.3	0.0	
10	QPSK	25	0		18.06				
10	QPSK	25	14		18.09				
10	QPSK	25	27		17.85		19.3	0.0	
10	QPSK	50	0		17.88		19.3	0.0	
10	16QAM	1	1		17.97				
10	64QAM	1	1		17.99			0.0	
10	256QAM	1	1		17.22		17.5	1.8	
Channel				461500	462000	462500	Tune-up limit	MPR	
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)	
5	QPSK	1	1		17.89	17.94	17.95	19.3	

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				349000	349000	349000	15.6	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	14.94	14.97	14.63	15.6	0.0	
40	PI/2 BPSK	1	108	14.77	14.68	14.69			
40	PI/2 BPSK	1	214	14.47	14.51	14.56			
40	PI/2 BPSK	108	0	14.46	14.56	14.52	15.6	0.0	
40	PI/2 BPSK	108	54	14.58	14.79	14.49	15.6	0.0	
40	PI/2 BPSK	108	108	14.33	14.43	14.49	15.6	0.0	
40	PI/2 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	15.6	0.0	
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			
40	16QAM	1	1	14.37	14.47	14.49	15.6	0.0	
40	64QAM	1	1	14.45	14.47	14.42	15.6	0.0	
40	256QAM	1	1	14.37	14.42	14.37	15.6	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	14.54	14.61	14.59	15.6	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	14.47	14.51	14.58	15.6	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	14.44	14.55	14.56	15.6	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	14.53	14.58	14.59	15.6	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(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				340500	1702.5				
Frequency (MHz)									
15	PI/2 BPSK	1	1		18.41				
15	PI/2 BPSK	1	40		18.32		19.4		0.0
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		18.26				
15	QPSK	1	1		18.44				
15	QPSK	1	40		18.37		19.4		0.0
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		18.36		19.4		0.0
15	64QAM	1	1		18.36		19.4		0.0
15	256QAM	1	1		18.36		19.4		0.0
Channel				340000	340500	341000	Tune-up limit	MPR	
Frequency (MHz)				1700	1702.5	1705	(dBm)	(dB)	
10	QPSK	1	1		18.37	18.42	18.32	19.4	0.0
Channel				339500	340500	341500	Tune-up limit	MPR	
Frequency (MHz)				1697.5	1702.5	1707.5	(dBm)	(dB)	
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				134500	135100	135600			
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	23.37	23.30	24.0		0.0
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			
20	PI/2 BPSK	100	0	23.07	23.11	23.02	23.5		0.5
20	QPSK	1	1	23.51	23.52	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	22.56	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	20.86	20.80	21.5		2.5
20	256QAM	1	1	19.24	19.29	19.25	19.5		4.5
Channel				134100	135100	136100	Tune-up limit	MPR	
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)	
15	QPSK	1	1	23.47	23.50	23.35	24.0		0.0
Channel				133600	135100	136600	Tune-up limit	MPR	
Frequency (MHz)				668	680.5	693	(dBm)	(dB)	
10	QPSK	1	1	23.41	23.57	23.57	24.0		0.0
Channel				133100	135100	1351100	Tune-up limit	MPR	
Frequency (MHz)				665.5	680.5	695.5	(dBm)	(dB)	
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				500202	518098	530000	15.1	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	13.81	13.77	13.69	15.1	0.0
100	PI2 BPSK	1	137	13.39	13.71	13.59		
100	PI2 BPSK	1	271	13.56	13.61	13.59		
100	PI2 BPSK	135	0	13.63	13.80	13.57	15.1	0.0
100	PI2 BPSK	135	69	13.80	13.81	13.68	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	15.1	0.0
100	QPSK	1	1	13.78	13.93	13.68		
100	QPSK	1	137	13.65	13.76	13.64		
100	QPSK	1	271	13.57	13.60	13.59	15.1	0.0
100	QPSK	135	0	13.72	13.82	13.85		
100	QPSK	135	69	13.82	13.84	13.71		
100	QPSK	135	138	13.65	13.70	13.79	15.1	0.0
100	QPSK	270	0	13.74	13.83	13.75	15.1	0.0
100	MCAM	1	1	13.62	13.67	13.64		
100	64QAM	1	1	13.58	13.56	13.55		
100	256QAM	1	1	13.52	13.55	13.48	15.1	0.0
Channel				508200	518098	529998	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	13.72	13.82	13.55	15.1	0.0
Channel				507204	518098	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	13.65	13.84	13.60	15.1	0.0
Channel				506202	518098	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2665	(dBm)	(dB)
70	QPSK	1	1	13.70	13.64	13.58	15.1	0.0
Channel				505200	518098	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	518098	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	13.63	13.83	13.59	15.1	0.0
Channel				503202	518098	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	518098	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	518098	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	13.73	13.80	13.61	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				506202	518598	528998	18.1	0.0
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	16.75	16.58		
100	PI2 BPSK	1	271	16.54	16.58	16.53	18.1	0.0
100	PI2 BPSK	135	0	16.65	16.82	16.53		
100	PI2 BPSK	135	69	16.75	16.79	16.74	18.1	0.0
100	PI2 BPSK	135	138	16.72	16.88	16.63		
100	PI2 BPSK	270	0	16.76	16.68	16.70	18.1	0.0
100	QPSK	1	1	16.76	16.89	16.67		
100	QPSK	1	137	16.63	16.79	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		
100	QPSK	135	138	16.82	16.79	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	16.58	16.56	16.58		
100	256QAM	1	1	16.47	16.51	16.52	18.1	0.0
Channel				506200	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	2649.98	(dBm)	(dB)
80	QPSK	1	1	16.63	16.86	16.63	18.1	0.0
Channel				506202	518598	528998	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	16.69	16.80	16.59	18.1	0.0
Channel				506200	518598	528998	Tune-up limit	MPR
Frequency (MHz)				2536	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	16.70	16.80	16.57	18.1	0.0
Channel				504204	518598	528998	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	16.55	18.1	0.0
Channel				502200	518598	528998	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	528998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.98	(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				372000	376000	380000	12.9	0.0
Frequency (MHz)				1860	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		
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		
20	PI2 BPSK	100	0	11.21	11.26	11.03		
20	QPSK	1	1	11.29	11.61	11.22	12.9	0.0
20	QPSK	1	53	11.41	11.51	11.36		
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		
20	QPSK	50	56	11.22	11.26	11.15		
20	QPSK	100	0	11.14	11.39	11.32	12.9	0.0
20	16QAM	1	1	11.41	11.42	11.36		
20	64QAM	1	1	11.38	11.38	11.55		
20	256QAM	1	1	11.43	11.22	11.44	12.9	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1892.5		
15	QPSK	1	1	11.17	11.49	11.12	12.9	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	11.22	11.50	11.20	12.9	0.0
Channel				370200	376000	381000		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	11.26	11.52	11.10	12.9	0.0
Channel								
Frequency (MHz)								

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				166800	167300	167800	21.3	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	19.60	19.88	19.74		
20	PI2 BPSK	1	53	19.47	19.46	19.52	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		
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		
20	PI2 BPSK	100	0	19.57	19.64	19.39		
20	QPSK	1	1	19.79	19.97	19.87	21.3	0.0
20	QPSK	1	53	19.57	19.55	19.65		
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	19.56		
20	QPSK	50	56	19.61	19.63	19.42		
20	QPSK	100	0	19.62	19.63	19.53	21.3	0.0
20	16QAM	1	1	19.50	19.54	19.51		
20	64QAM	1	1	19.51	19.49	19.54		
20	256QAM	1	1	19.49	19.50	19.51	21.0	0.3
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.51	19.58	19.41	21.3	0.0
Channel				165800	167300	168800		
Frequency (MHz)				820	836.5	844		
10	QPSK	1	1	19.60	19.54	19.44	21.3	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.54	19.62	19.38	21.3	0.0
Channel								
Frequency (MHz)								

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				506000	507000	508000	15.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	13.69	13.88	13.73		
40	PI2 BPSK	1	108	13.68	13.78	13.74	15.0	0.0
40	PI2 BPSK	1	214	13.32	13.47	13.33		
40	PI2 BPSK	50	0	13.55	13.58	13.66		
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		
40	PI2 BPSK	216	0	13.44	13.53	13.52		
40	QPSK	1	1	13.80	14.02	13.86	15.0	0.0
40	QPSK	1	108	13.79	13.86	13.78		
40	QPSK	1	214	13.48	13.56	13.42		
40	QPSK	108	0	13.54	13.73	13.66	15.0	0.0
40	QPSK	108	54	13.52	13.78	13.62		
40	QPSK	108	108	13.52	13.59	13.55		
40	QPSK	216	0	13.53	13.69	13.59	15.0	0.0
40	16QAM	1	1	13.24	13.35	13.23		
40	64QAM	1	1	13.22	13.35	13.22		
40	256QAM	1	1	13.22	13.44	13.24	15.0	0.0
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	13.36	13.45	13.33	15.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	13.44	13.49	13.35	15.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	13.43	13.43	13.37	15.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	13.45	13.53	13.30	15.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	13.40	13.44	13.33	15.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	13.41	13.47	13.36	15.0	0.0
Channel								
Frequency (MHz)								



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				14300	14100	14100	23.0	0.0	
Frequency (MHz)				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			
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	21.63	21.68	21.60			
15	QPSK	1	1	21.80	21.99	21.83	23.0	0.0	
15	QPSK	1	40	21.86	21.95	21.86			
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			
15	QPSK	36	43	21.76	21.82	21.69			
15	QPSK	75	0	21.76	21.78	21.71	23.0	0.0	
15	16QAM	1	1	21.75	21.67	21.73			
15	64QAM	1	1	21.74	21.95	21.78		23.0	
15	256QAM	1	1	20.42	20.49	20.47			
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	21.73	21.77	21.79		23.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	21.76	21.79	21.72		23.0	

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				16600			22.9	0.0	
Frequency (MHz)				793					
10	PI2 BPSK	1	1		21.97				
10	PI2 BPSK	1	26		21.68		22.9	0.0	
10	PI2 BPSK	1	50		21.75				
10	PI2 BPSK	25	0		21.69				
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				
10	QPSK	1	1		22.11		22.9	0.0	
10	QPSK	1	26		21.74				
10	QPSK	1	50		21.81				
10	QPSK	25	0		21.76		22.9	0.0	
10	QPSK	25	14		21.91				
10	QPSK	25	27		21.86				
10	QPSK	50	0		21.84		22.9	0.0	
10	16QAM	1	1		21.68				
10	64QAM	1	1		21.69			22.9	
10	256QAM	1	1		20.58				
Channel				158100	158800	159100	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	21.62	21.65	21.65		22.9	

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				372000	376500	381000	12.9	0.0	
Frequency (MHz)				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			
20	PI2 BPSK	50	28	11.19	11.41	11.26	12.9	0.0	
20	PI2 BPSK	50	56	11.23	11.25	11.17			
20	PI2 BPSK	100	0	11.23	11.38	11.15			
20	QPSK	1	1	11.39	11.65	11.32	12.9	0.0	
20	QPSK	1	53	11.47	11.41	11.41			
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			
20	QPSK	50	56	11.31	11.36	11.25			
20	QPSK	100	0	11.27	11.41	11.34	12.9	0.0	
20	16QAM	1	1	11.52	11.45	11.48			
20	64QAM	1	1	11.52	11.45	11.58		12.9	
20	256QAM	1	1	11.50	11.34	11.53			
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	11.25	11.53	11.19		12.9	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	11.27	11.53	11.30		12.9	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	11.29	11.57	11.26		12.9	



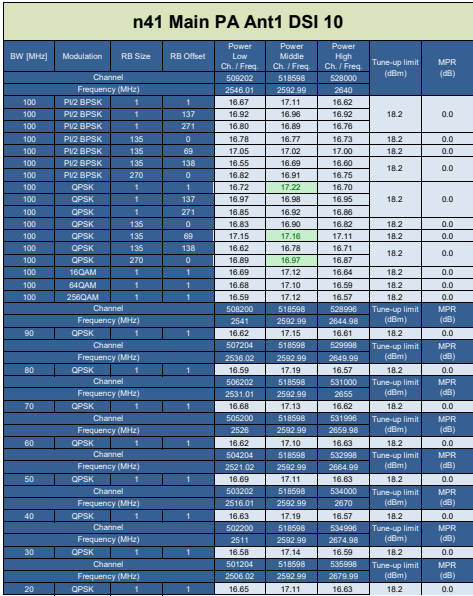
n26 Main PA Ant1 DSI 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	166300	168200	21.3	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	19.73	19.94	19.86	21.3	0.0	
20	PI2 BPSK	1	53	19.58	19.55	19.64			
20	PI2 BPSK	1	104	19.54	19.62	19.75			
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	21.3	0.0	
20	QPSK	1	1	19.86	20.03	19.96	21.3	0.0	
20	QPSK	1	53	19.67	19.67	19.73			
20	QPSK	1	104	19.86	19.67	19.84			
20	QPSK	50	0	19.60	19.68	19.72	21.3	0.0	
20	QPSK	50	28	19.62	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	21.3	0.0	
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				164300	166300	168300	Tune-up limit	MPR	
Frequency (MHz)				821.2	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	19.54	19.53	19.66	21.3	0.0	
Channel				163800	166300	168800	Tune-up limit	MPR	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	19.59	19.43	19.68	21.3	0.0	
Channel				163300	166300	169300	Tune-up limit	MPR	
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				462000	462000	462000	16.0	0.0	
Frequency (MHz)				2310	2310	2310			
10	PI2 BPSK	1	1	15.30	15.28	15.28	16.0	0.0	
10	PI2 BPSK	1	26	15.28	15.28	15.28			
10	PI2 BPSK	1	60	14.75	14.75	14.75			
10	PI2 BPSK	25	0	14.75	14.75	14.75	16.0	0.0	
10	PI2 BPSK	25	14	15.13	15.13	15.13	16.0	0.0	
10	PI2 BPSK	25	27	14.87	14.87	14.87	16.0	0.0	
10	PI2 BPSK	50	0	15.00	15.00	15.00	16.0	0.0	
10	QPSK	1	1	15.34	15.34	15.34	16.0	0.0	
10	QPSK	1	26	15.31	15.31	15.31			
10	QPSK	1	50	14.81	14.81	14.81			
10	QPSK	25	0	14.89	14.89	14.89	16.0	0.0	
10	QPSK	25	14	15.16	15.16	15.16	16.0	0.0	
10	QPSK	25	27	14.91	14.91	14.91	16.0	0.0	
10	QPSK	50	0	15.09	15.09	15.09	16.0	0.0	
10	16QAM	1	1	14.89	14.89	14.89	16.0	0.0	
10	64QAM	1	1	14.88	14.88	14.88	16.0	0.0	
10	256QAM	1	1	14.88	14.88	14.88	16.0	0.0	
Channel				461500	462000	462500	Tune-up limit	MPR	
Frequency (MHz)				2307.2	2310	2312.5	(dBm)	(dB)	
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				346000	349000	352000	13.0	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	11.92	11.96	11.75	13.0	0.0	
40	PI2 BPSK	1	108	11.69	11.88	11.81			
40	PI2 BPSK	1	214	11.60	11.83	11.70			
40	PI2 BPSK	108	0	11.67	11.88	11.78	13.0	0.0	
40	PI2 BPSK	108	54	11.60	11.95	11.68	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	13.0	0.0	
40	QPSK	1	1	11.99	12.00	11.89	13.0	0.0	
40	QPSK	1	108	11.88	11.99	11.88			
40	QPSK	1	214	11.66	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	13.0	0.0	
40	16QAM	1	1	11.85	11.79	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				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	11.83	11.88	11.83	13.0	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	11.82	11.90	11.80	13.0	0.0	
Channel				343000	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	11.75	11.96	11.81	13.0	0.0	
Channel				342000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	11.85	11.88	11.74	13.0	0.0	
Channel				342500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
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				1702.5					
Frequency (MHz)				340500			13.4	0.0	
15	PI/2 BPSK	1	1		12.98				
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		12.08				
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		12.51		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	340500	341000	Tune-up limit	MPR	
Frequency (MHz)				1700	1702.5	1705	(dBm)	(dB)	
10	QPSK	1	1	12.45	12.50	12.47	13.4	0.0	
Channel				339500	340500	341500	Tune-up limit	MPR	
Frequency (MHz)				1697.5	1702.5	1707.5	(dBm)	(dB)	
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				134500	136100	137000			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	23.26	23.60	23.14	24.5	0.0	
20	PI/2 BPSK	1	53	23.16	23.12	22.99			
20	PI/2 BPSK	1	104	22.90	23.15	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	24.5	0.0	
20	QPSK	1	53	23.34	23.28	23.21			
20	QPSK	1	104	23.12	23.33	23.15			
20	QPSK	50	0	22.94	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	136100	138100	Tune-up limit	MPR	
Frequency (MHz)				670.3	680.5	690.5	(dBm)	(dB)	
15	QPSK	1	1	22.70	22.93	22.88	24.5	0.0	
Channel				133600	136100	138600	Tune-up limit	MPR	
Frequency (MHz)				668	680.5	693	(dBm)	(dB)	
10	QPSK	1	1	22.80	22.82	22.83	24.5	0.0	
Channel				133100	135100	137100	Tune-up limit	MPR	
Frequency (MHz)				665.5	680.5	695.5	(dBm)	(dB)	
5	QPSK	1	1	22.83	22.84	22.69	24.5	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.]	Time-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			50400.0	2562.99	52600.0		
100	P2 BPSK	1	1	19.65	20.10	19.67		
100	P2 BPSK	1	137	19.68	19.68	19.68	21.2	0.0
100	P2 BPSK	1	271	19.75	19.93	19.70		
100	P2 BPSK	135	0	19.82	19.80	19.78	21.2	0.0
100	P2 BPSK	135	69	20.09	19.97	20.04	21.2	0.0
100	P2 BPSK	135	133	19.56	19.61	19.66	21.2	0.0
100	P2 BPSK	270	0	19.84	19.90	19.80	21.2	0.0
100	QPSK	1	1	19.78	20.20	19.74		
100	QPSK	1	137	20.06	19.98	20.01	21.2	0.0
100	QPSK	1	271	19.91	19.89	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	133	19.61	19.70	19.70	21.2	0.0
100	QPSK	270	0	19.90	19.92	19.89	21.2	0.0
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	20.11	19.63	21.2	0.0
Channel								
	Frequency (MHz)			50400.0	181698	526998	Time-up limit (dBm)	MPR
90	QPSK	1	1	25.81	25.92	25.64	19.8	0.0
80	QPSK	1	1	19.68	20.06	19.61	21.2	0.0
80	QPSK	1	137	19.62	19.68	19.68	21.2	0.0
Channel								
	Frequency (MHz)			2562.02	2562.99	2564.99	Time-up limit (dBm)	MPR
80	QPSK	1	1	19.74	20.17	19.63	21.2	0.0
80	QPSK	1	137	19.62	19.68	19.68	21.2	0.0
70	QPSK	1	1	19.65	20.13	19.72	21.2	0.0
Channel								
	Frequency (MHz)			50500.0	181698	531998	Time-up limit (dBm)	MPR
80	QPSK	1	1	19.68	20.09	19.64	19.8	0.0
80	QPSK	1	1	19.72	20.13	19.63	21.2	0.0
Channel								
	Frequency (MHz)			50400.4	181698	532998	Time-up limit (dBm)	MPR
50	QPSK	1	1	25.12	25.99	25.64	19.8	0.0
50	QPSK	1	1	19.68	20.12	19.64	21.2	0.0
Channel								
	Frequency (MHz)			50320.2	181698	53400.0	Time-up limit (dBm)	MPR
40	QPSK	1	1	25.16	25.92	25.70	21.2	0.0
40	QPSK	1	1	19.71	20.18	19.63	21.2	0.0
40	QPSK	1	137	19.62	19.68	19.68	21.2	0.0
30	QPSK	1	1	19.51	25.92	25.74	19.8	0.0
30	QPSK	1	1	19.67	20.13	19.71	21.2	0.0
Channel								
	Frequency (MHz)			50320.5	181698	53499.8	Time-up limit (dBm)	MPR
20	QPSK	1	1	25.04	25.92	25.73	19.8	0.0
20	QPSK	1	1	19.75	20.16	19.69	21.2	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.	Turnup limit (dBm)	MPR (dB)	
Channel									
				830000	841666	845332			
				3570	3624.99	3679.98			
40	P2P BPSK	1	1	12.80	12.67	12.62			
40	P2P BPSK	1	53	12.80	12.69	12.43	14.2	0.0	
40	P2P BPSK	1	100	12.82	12.52	12.47			
40	P2P BPSK	50	0	12.47	12.49	12.50	14.2	0.0	
40	P2P BPSK	50	28	12.44	12.68	12.46	14.2	0.0	
40	P2P BPSK	50	56	12.51	12.58	12.55	14.2	0.0	
40	P2P BPSK	100	0	12.36	12.36	12.44			
40	QPSK	1	1	12.84	12.79	12.72			
40	QPSK	1	53	12.88	12.72	12.50			
40	QPSK	1	104	12.84	12.73	12.61	14.2	0.0	
40	QPSK	50	0	12.53	12.59	12.62			
40	QPSK	50	28	12.54	12.61	12.51	14.2	0.0	
40	QPSK	50	56	12.63	12.86	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			
40	64QAM	1	1	12.58	12.58	12.39	14.2	0.0	
40	256QAM	1	1	12.54	12.58	12.41	14.2	0.0	
Channel									
				837668	841666	845666	Turn-up limit (dBm)	MPR (dB)	
				3555.02	3624.99	3684.99			
30	QPSK	1	1	12.59	12.59	12.31	14.2	0.0	
Channel									
				873334	861666	846000	Turn-up limit (dBm)	MPR (dB)	
				3560.01	3624.99	3650			
20	QPSK	1	1	12.63	12.56	12.38	14.2	0.0	
Channel									
				870000	841666	843332	Turn-up limit (dBm)	MPR (dB)	
				3555	3624.99	3694.98			
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)				3750	3840	3930			
100	PI2 BPSK	1	1	11.54	11.71	11.41			
100	PI2 BPSK	1	137	11.44	11.35	11.30	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	12.6	0.0	
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	11.58	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									
				649668	656000	662334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3755.02	3845	3935.01			
90	QPSK	1	1	11.50	11.64	11.27	12.6	0.0	
Channel									
				646334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	11.45	11.63	11.35	12.6	0.0	
Channel									
				645000	656000	663000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	11.40	11.62	11.32	12.6	0.0	
Channel									
				645668	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720.02	3840	3950.01			
60	QPSK	1	1	11.41	11.64	11.35	12.6	0.0	
Channel									
				646334	656000	663668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	11.49	11.66	11.30	12.6	0.0	
Channel									
				645000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740	3840	3960			
40	QPSK	1	1	11.40	11.67	11.33	12.6	0.0	
Channel									
				647668	656000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.01	3840	3965.01			
30	QPSK	1	1	11.46	11.68	11.32	12.6	0.0	
Channel									
				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3970.02			
20	QPSK	1	1	11.44	11.69	11.36	12.6	0.0	
Channel									
				647168	656000	664834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3737.52	3840	3972.51			
15	QPSK	1	1	11.44	11.68	11.30	12.6	0.0	
Channel									
				647000	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3975			
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)									
				3750	3840	3930			
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	15.6	0.0	
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	13.97	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	13.92	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									
				649668	656000	662334	Tune-up limit (dB)	MPR	
Frequency (MHz)									
90	QPSK	1	1	13.87	14.11	13.74	15.6	0.0	
Channel									
				646334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
80	QPSK	1	1	13.80	14.09	13.74	15.6	0.0	
Channel									
				645000	656000	663000	Tune-up limit (dB)	MPR	
Frequency (MHz)									
70	QPSK	1	1	13.88	14.12	13.69	15.6	0.0	
Channel									
				645668	656000	663334	Tune-up limit (dB)	MPR	
Frequency (MHz)									
60	QPSK	1	1	13.90	14.11	13.88	15.6	0.0	
Channel									
				646334	656000	663668	Tune-up limit (dB)	MPR	
Frequency (MHz)									
50	QPSK	1	1	13.83	14.14	13.70	15.6	0.0	
Channel									
				646000	656000	664000	Tune-up limit (dB)	MPR	
Frequency (MHz)									
40	QPSK	1	1	13.83	14.10	13.67	15.6	0.0	
Channel									
				647668	656000	664334	Tune-up limit (dB)	MPR	
Frequency (MHz)									
30	QPSK	1	1	13.85	14.07	13.70	15.6	0.0	
Channel									
				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
20	QPSK	1	1	13.88	14.07	13.67	15.6	0.0	
Channel									
				647168	656000	664834	Tune-up limit (dB)	MPR	
Frequency (MHz)									
15	QPSK	1	1	13.87	14.10	13.72	15.6	0.0	
Channel									
				647000	656000	665000	Tune-up limit (dBm)	MPR	
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)									
				3500.01	3500.01				
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		12.6		0.0
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		12.32		12.6		0.0
100	16QAM	1	1		12.25		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)									
				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
				3495	3500.01	3505.02			
90	QPSK	1	1	12.30	12.31	12.29	12.6		0.0
Channel									
Frequency (MHz)									
				633668	633334	633000	Tune-up limit (dbm)	MPR (db)	
				3490.02	3500.01	3510.01			
80	QPSK	1	1	12.20	12.27	12.15	12.6		0.0
Channel									
Frequency (MHz)									
				633334	633334	633334	Tune-up limit (dbm)	MPR (db)	
				3485.01	3500.01	3515.01			
70	QPSK	1	1	12.21	12.34	12.22	12.6		0.0
Channel									
Frequency (MHz)									
				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
				3480	3500.01	3520.02			
60	QPSK	1	1	12.26	12.28	12.25	12.6		0.0
Channel									
Frequency (MHz)									
				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
				3475.02	3500.01	3505			
50	QPSK	1	1	12.21	12.26	12.23	12.6		0.0
Channel									
Frequency (MHz)									
				633334	633334	633334	Tune-up limit (dbm)	MPR (db)	
				3470.01	3500.01	3530.01			
40	QPSK	1	1	12.25	12.33	12.18	12.6		0.0
Channel									
Frequency (MHz)									
				631000	633334	635668	Tune-up limit (dbm)	MPR (db)	
				3465	3500.01	3535.02			
30	QPSK	1	1	12.23	12.28	12.14	12.6		0.0
Channel									
Frequency (MHz)									
				633668	633334	633000	Tune-up limit (dbm)	MPR (db)	
				3460.02	3500.01	3540			
20	QPSK	1	1	12.26	12.35	12.26	12.6		0.0
Channel									
Frequency (MHz)									
				635000	633334	631668	Tune-up limit (dbm)	MPR (db)	
				3455	3500.01	3542.52			
15	QPSK	1	1	12.27	12.25	12.23	12.6		0.0
Channel									
Frequency (MHz)									
				633334	633334	633334	Tune-up limit (dbm)	MPR (db)	
				3455.01	3500.01	3545.01			
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	P12 BPSK	1	1		15.15		15.6	0.0
100	P12 BPSK	1	137		14.83			
100	P12 BPSK	1	271		14.95			
100	P12 BPSK	135	0		14.82		15.6	0.0
100	P12 BPSK	135	69		14.98		15.6	0.0
100	P12 BPSK	135	138		15.01		15.6	0.0
100	P12 BPSK	270	0		15.06		15.6	0.0
100	QPSK	1	1		15.16			
100	QPSK	1	137		14.94			
100	QPSK	1	271		15.13		15.6	0.0
100	QPSK	135	0		14.94		15.6	0.0
100	QPSK	135	69		15.13		15.6	0.0
100	QPSK	135	138		15.04		15.6	0.0
100	QPSK	270	0		15.07		15.6	0.0
100	16QAM	1	1		14.97		15.6	0.0
100	64QAM	1	1		15.08		15.6	0.0
100	256QAM	1	1		14.99		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	3505.02	15.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632668	633334	634000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	3490.02	3500.01	3510	15.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	632334	633334	634334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	3485.01	3500.01	3515.01	15.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	632000	633334	635000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3490.02	3500.01	3520.02	15.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	631668	633334	635000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3475.02	3500.01	3525	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	631334	633334	635334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3470.01	3500.01	3530.01	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	631000	633334	635668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3465	3500.01	3535.02	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630668	633334	636000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3460.02	3500.01	3540	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630334	633334	636334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3455.01	3500.01	3545.01	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630000	633334	636668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3450	3500.01	3550.02	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	629668	633334	637000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3445	3500.01	3555.03	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	629334	633334	637334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3440	3500.01	3560.04	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	629000	633334	637668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3435	3500.01	3565.05	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	628668	633334	638000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3430	3500.01	3570.06	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	628334	633334	638334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3425	3500.01	3575.07	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	628000	633334	638668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3420	3500.01	3580.08	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	627668	633334	639000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3415	3500.01	3585.09	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	627334	633334	639334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3410	3500.01	3590.10	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	627000	633334	639668	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3405	3500.01	3595.11	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	626668	633334	640000	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3400	3500.01	3600.12	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	626334	633334	640334	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3395	3500.01	3605.13	15.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	626000	633334	640668	Tune-up limit (dB)	



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				372000	376000	380000	23.0	0.0	
Frequency (MHz)				1860	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	21.66			
20	PI2 BPSK	50	0	21.71	21.77	21.68			
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			
20	QPSK	1	1	21.81	21.88	21.67	23.0	0.0	
20	QPSK	1	53	21.80	21.86	21.63			
20	QPSK	1	104	21.78	21.81	21.78			
20	QPSK	50	0	21.70	21.75	21.76	23.0	0.0	
20	QPSK	50	28	21.76	21.83	21.80			
20	QPSK	50	56	21.59	21.68	21.64		23.0	
20	QPSK	100	0	21.73	21.78	21.67	23.0	0.0	
20	16QAM	1	1	21.77	21.86	21.80			
20	64QAM	1	1	20.80	20.87	20.84	22.0	1.0	
20	256QAM	1	1	18.86	18.90	18.81			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1892.5			
15	QPSK	1	1	21.77	21.79	21.59		23.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	21.76	21.84	21.64		23.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	21.78	21.85	21.60		23.0	

n7 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				506000	507000	510000	17.3	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	16.14	16.25	16.27			
40	PI2 BPSK	1	108	15.89	16.14	15.83	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			
40	PI2 BPSK	108	54	16.18	16.13	15.96	17.3	0.0	
40	PI2 BPSK	108	108	16.12	16.07	15.93			
40	PI2 BPSK	216	0	16.06	16.26	16.05			
40	QPSK	1	1	16.23	16.33	16.29	17.3	0.0	
40	QPSK	1	108	16.00	16.12	16.10			
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			
40	QPSK	108	108	16.21	16.25	16.12		17.3	
40	QPSK	216	0	16.12	16.28	16.23	17.3	0.0	
40	16QAM	1	1	15.93	15.90	15.84			
40	64QAM	1	1	15.82	15.90	15.88	17.3	0.0	
40	256QAM	1	1	15.83	15.78	15.77			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	16.12	16.03	15.92		17.3	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	16.08	16.08	15.92		17.3	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	16.06	16.10	15.85		17.3	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	16.10	16.05	15.90		17.3	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	16.08	16.02	15.82		17.3	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	16.05	16.04	15.93		17.3	

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				372000	376500	381000	22.4	0.0	
Frequency (MHz)				1880	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	21.86			
20	PI2 BPSK	50	0	21.75	21.79	21.76		22.4	
20	PI2 BPSK	50	28	21.66	21.75	21.70			
20	PI2 BPSK	50	56	21.67	21.72	21.70	22.4	0.0	
20	PI2 BPSK	100	0	21.70	21.75	21.72			
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	
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		22.4	
20	16QAM	1	1	21.33	21.39	21.31	22.4	0.0	
20	64QAM	1	1	20.44	20.49	20.46			
20	256QAM	1	1	18.86	18.94	18.85		20.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1877.5	1882.5	1897.5			
15	QPSK	1	1	21.71	21.93	21.64		22.4	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	21.74	21.90	21.64		22.4	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	21.75	21.86	21.59		22.4	



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				485000	495000				
Frequency (MHz)				2310					
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				
10	QPSK	1	26		21.56		23.0	0.0	
10	QPSK	1	50		21.19		22.0	1.0	
10	QPSK	25	0		21.25		23.0	0.0	
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		22.0	1.0	
10	16QAM	1	1		20.09		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	482000	482500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	21.64	21.62	21.63	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				345000	349000	353000			
Frequency (MHz)				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	16.66	16.77	16.66			
40	QPSK	1	1	16.86	16.95	16.92			
40	QPSK	1	108	16.60	16.51	16.36	18.0	0.0	
40	QPSK	1	214	16.58	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	16.64	16.43	18.0	0.0	
40	64QAM	1	1	16.65	16.65	16.66	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	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.05	16.70	16.77	18.0	0.0	
Channel				343500	349000	355500	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	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.59	16.72	16.64	18.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.70	16.76	16.61	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					349500				
Frequency (MHz)					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				
15	QPSK	1	40		17.71		18.8	0.0	
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	349500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	17.54	17.52	17.58	18.8	0.0	
Channel				339500	349500	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				508200	518598	528996	19.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.33	17.59	17.33	19.0	0.0	
100	PI2 BPSK	1	137	17.22	17.30	17.34			
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	17.35	19.0	0.0	
100	QPSK	1	1	17.45	17.65	17.39	19.0	0.0	
100	QPSK	1	137	17.25	17.36	17.36			
100	QPSK	1	271	17.23	17.19	17.17			
100	QPSK	135	0	17.56	17.36	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	17.26	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				508200	518598	528996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2541	2592.99	2644.08	(dB)	(dB)	
90	QPSK	1	1	17.34	17.50	17.14	19.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	17.28	17.49	17.18	19.0	0.0	
Channel				506200	518598	531000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	17.29	17.50	17.20	19.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	17.28	17.40	17.20	19.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	17.33	17.43	17.23	19.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	17.32	17.46	17.22	19.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	17.29	17.43	17.17	19.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2506.00	2592.99	2679.99	(dBm)	(dB)	
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				508200	518598	528996	22.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
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	221	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	20.16	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	20.38	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				508200	518598	528996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2541	2592.99	2644.08	(dBm)	(dB)	
90	QPSK	1	1	20.35	20.61	20.33	22.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	20.33	20.54	20.32	22.0	0.0	
Channel				506200	518598	531000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	20.38	20.60	20.28	22.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	20.39	20.55	20.29	22.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	20.43	20.64	20.32	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	20.38	20.59	20.27	22.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	20.36	20.62	20.34	22.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2506.00	2592.99	2679.99	(dBm)	(dB)	
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				639000	641666	645332	19.4	0.0	
Frequency (MHz)				3570	3624.99	3679.98			
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	18.16			
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				637688	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	18.31	18.33	18.26	19.4	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	18.24	18.24	18.24	19.4	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
16	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	19.25	19.26	19.06	20.2	0.0
100	PV2 BPSK	1	137	18.53	19.12	18.93		
100	PV2 BPSK	1	271	18.73	19.11	19.83		
100	PV2 BPSK	135	0	18.92	19.05	18.88	20.2	0.0
100	PV2 BPSK	135	69	18.90	19.03	19.04	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	18.96	18.89	20.2	0.0
100	QPSK	1	1	19.32	19.38	19.19		
100	QPSK	1	137	19.04	19.27	18.99		
100	QPSK	1	271	18.85	19.18	18.93	20.2	0.0
100	QPSK	135	0	19.02	19.16	19.95		
100	QPSK	135	69	18.99	19.20	19.05		
100	QPSK	135	138	18.88	19.18	18.96	20.2	0.0
100	QPSK	270	0	18.87	19.02	18.93	20.2	0.0
100	16QAM	1	1	19.08	19.12	19.94		
100	64QAM	1	1	19.21	19.16	19.02		
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	19.02	20.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.17	19.12	19.96	20.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.22	19.20	18.99	20.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.20	19.20	19.01	20.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.12	19.15	19.00	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	18.92	20.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.15	19.17	19.04	20.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.17	19.20	19.02	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	23.2	0.0
100	PV2 BPSK	1	137	21.80	22.08	21.80		
100	PV2 BPSK	1	271	21.65	22.03	21.75		
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	21.85	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	21.89		
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	21.98	21.85		
100	16QAM	1	1	21.94	22.02	21.87		
100	64QAM	1	1	22.11	22.02	21.92	23.2	0.0
100	256QAM	1	1	20.58	20.76	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	19.45	633334	3500.01	20.2	0.0
100	PV2 BPSK	1	137	19.29				
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	19.36				
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				
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	633000	633334	633668	Tune-up limit	MPR
				3486	3500.01	3503.02	(dBm)	(dB)
				19.40	19.35	19.29	20.2	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	630668	633334	634000	Tune-up limit	MPR
				3489.02	3500.01	3510	(dBm)	(dB)
				19.43	19.35	19.25	20.2	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	632334	633334	634334	Tune-up limit	MPR
				3485.01	3500.01	3515.01	(dBm)	(dB)
				19.45	19.35	19.28	20.2	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	632000	633334	635000	Tune-up limit	MPR
				3488	3500.01	3520.02	(dBm)	(dB)
				19.48	19.32	19.17	20.2	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	633334	635000	Tune-up limit	MPR
				3491.02	3500.01	3530	(dBm)	(dB)
				19.49	19.31	19.18	20.2	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	635334	Tune-up limit	MPR
				3493.01	3500.01	3535.01	(dBm)	(dB)
				19.46	19.42	19.27	20.2	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631000	633334	635668	Tune-up limit	MPR
				3495	3500.01	3535	(dBm)	(dB)
				19.44	19.39	19.23	20.2	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	630668	633334	636000	Tune-up limit	MPR
				3490.02	3500.01	3540	(dBm)	(dB)
				19.47	19.40	19.17	20.2	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	630334	633334	636334	Tune-up limit	MPR
				3493.01	3500.01	3545.01	(dBm)	(dB)
				19.46	19.38	19.18	20.2	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630000	633334	636668	Tune-up limit	MPR
				3495.01	3500.01	3548.01	(dBm)	(dB)
				19.44	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)				633000	633334	3500.01			
100	PI2 BPSK	1	1		22.46		23.2	0.0	
100	PI2 BPSK	1	137		22.29				
100	PI2 BPSK	1	271		22.29				
100	PI2 BPSK	135	0		22.29		23.2	0.0	
100	PI2 BPSK	135	69		22.14		23.2	0.0	
100	PI2 BPSK	135	138		22.35		23.2	0.0	
100	PI2 BPSK	270	0		22.17				
100	QPSK	1	1		22.53				
100	QPSK	1	137		22.49		23.2	0.0	
100	QPSK	1	271		22.37				
100	QPSK	135	0		22.38		23.2	0.0	
100	QPSK	135	69		22.48		23.2	0.0	
100	QPSK	135	138		22.41		23.2	0.0	
100	QPSK	270	0		22.26		23.2	0.0	
100	16QAM	1	1		22.34				
100	64QAM	1	1		22.43				
100	256QAM	1	1		21.13		21.5	1.7	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485	3500.01	3505.02	(dB)		
80	QPSK	1	1	22.42	22.35	22.34	23.2	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dB)		
80	QPSK	1	1	22.37	22.24	22.21	23.2	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)		
70	QPSK	1	1	22.37	22.21	22.31	23.2	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dB)		
60	QPSK	1	1	22.33	22.28	22.28	23.2	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dB)		
50	QPSK	1	1	22.33	22.22	22.24	23.2	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)		
40	QPSK	1	1	22.29	22.22	22.21	23.2	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dB)		
30	QPSK	1	1	22.30	22.23	22.24	23.2	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dB)		
20	QPSK	1	1	22.31	22.23	22.25	23.2	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52 <td>(dB)</td> <td colspan="2"></td>	(dB)		
15	QPSK	1	1	22.32	22.32	22.28	23.2	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)		
10	QPSK	1	1	22.40	22.21	22.22	23.2	0.0	

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)				3750					
100	PI2 BPSK	1	1		18.92		20.2	0.0	
100	PI2 BPSK	1	137		18.82				
100	PI2 BPSK	1	271		18.79				
100	PI2 BPSK	135	0		18.76		20.2	0.0	
100	PI2 BPSK	135	69		18.68		20.2	0.0	
100	PI2 BPSK	135	138		18.86		20.2	0.0	
100	PI2 BPSK	270	0		18.65				
100	QPSK	1	1		19.03				
100	QPSK	1	137		19.01		20.2	0.0	
100	QPSK	1	271		18.85				
100	QPSK	135	0		18.89		20.2	0.0	
100	QPSK	135	69		18.91		20.2	0.0	
100	QPSK	135	138		18.85		20.2	0.0	
100	QPSK	270	0		18.76		20.2	0.0	
100	16QAM	1	1		18.82				
100	64QAM	1	1		18.97				
100	256QAM	1	1		17.38		18.5	1.7	
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	(dB)		
80	PI2 BPSK	1	1	18.85	18.79	18.82	20.2	0.0	
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	(dB)		
80	PI2 BPSK	1	1	18.72	18.67	18.70	20.2	0.0	
Channel				648668	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	(dB)		
70	PI2 BPSK	1	1	18.80	18.66	18.69	20.2	0.0	
Channel				648000	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3761.01	(dB)		
60	PI2 BPSK	1	1	18.74	18.75	18.73	20.2	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3762.02	(dB)		
50	PI2 BPSK	1	1	18.73	18.66	18.74	20.2	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	(dB)		
40	PI2 BPSK	1	1	18.78	18.76	18.78	20.2	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	(dB)		
30	PI2 BPSK	1	1	18.79	18.76	18.79	20.2	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	(dB)		
20	PI2 BPSK	1	1	18.78	18.70	18.79	20.2	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51	(dB)		
15	PI2 BPSK	1	1	18.71	18.68	18.76	20.2	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	(dB)		
10	PI2 BPSK	1	1	18.80	18.77	18.69	20.2	0.0	

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)				633334		3500.01			
100	PI2 BPSK	1	1		19.26		20.2	0.0	
100	PI2 BPSK	1	137		19.15				
100	PI2 BPSK	1	271		19.13				
100	PI2 BPSK	135	0		19.03		20.2	0.0	
100	PI2 BPSK	135	69		19.00		20.2	0.0	
100	PI2 BPSK	135	138		19.09		20.2	0.0	
100	PI2 BPSK	270	0		18.86				
100	QPSK	1	1		19.35				
100	QPSK	1	137		19.31		20.2	0.0	
100	QPSK	1	271		19.14				
100	QPSK	135	0		19.15		20.2	0.0	
100	QPSK	135	69		19.21		20.2	0.0	
100	QPSK	135	138		19.14		20.2	0.0	
100	QPSK	270	0		19.06		20.2	0.0	
100	16QAM	1	1		19.08				
100	64QAM	1	1		19.27				
100	256QAM	1	1		18.01		18.5	1.7	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485	3500.01	3556.02	(dB)		
80	PI2 BPSK	1	1	19.13	19.21	19.24	20.2	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dB)		
80	PI2 BPSK	1	1	19.06	19.17	19.19	20.2	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)		
70	PI2 BPSK	1	1	19.03	19.12	19.21	20.2	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3550.02	(dB)		
60	PI2 BPSK	1	1	19.00	19.13	19.12	20.2	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dB)		
50	PI2 BPSK	1	1	19.05	19.11	19.20	20.2	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)		
40	PI2 BPSK	1	1	19.10	19.08	19.20	20.2	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3536.02	(dB)		
30	PI2 BPSK	1	1	19.01	19.05	19.17	20.2	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dB)		
20	PI2 BPSK	1	1	19.08	19.11	19.17	20.2	0.0	
Channel				630334	633334	636368	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)		
15	PI2 BPSK	1	1	19.04	19.11	19.21	20.2	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3452.01	3500.01	3545.01	(dB)		
10	PI2 BPSK	1	1	19.06	19.07	19.19	20.2	0.0	



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				372000	376000	380000	19.3	0.0
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	17.38	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		
20	QPSK	1	53	17.36	17.33	17.38	19.3	0.0
20	QPSK	1	104	17.35	17.33	17.34		
20	QPSK	50	0	17.37	17.36	17.34		
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	MSAM	1	1	17.31	17.32	17.32		
20	MSAM	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				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1880	1892.5	19.3	0.0
15	QPSK	1	1	17.35	17.35	17.33	19.3	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1880	1905	19.3	0.0
10	QPSK	1	1	17.39	17.39	17.31	19.3	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1880	1907.5	19.3	0.0
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				504000	507000	510000	18.4	0.0
Frequency (MHz)				2520	2535	2550		
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		
40	QPSK	1	108	16.89	17.05	16.96	18.4	0.0
40	QPSK	1	214	16.96	17.07	16.90		
40	QPSK	108	0	17.02	17.14	17.04		
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	MSAM	1	1	16.81	16.86	16.79		
40	MSAM	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				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2516	2535	2555	18.4	0.0
30	QPSK	1	1	17.24	17.33	17.34	18.4	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2557.5	18.4	0.0
25	QPSK	1	1	17.43	17.30	17.30	18.4	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560	18.4	0.0
20	PI2 BPSK	1	1	17.18	17.31	17.31	18.4	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5	18.4	0.0
15	QPSK	1	1	17.14	17.34	17.30	18.4	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2506	2535	2565	18.4	0.0
10	QPSK	1	1	17.16	17.27	17.32	18.4	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5	18.4	0.0
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				372000	376000	380000	19.3	0.0
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	17.38	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		
20	QPSK	1	53	17.38	17.32	17.38	19.3	0.0
20	QPSK	1	104	17.35	17.35	17.35		
20	QPSK	50	0	17.37	17.34	17.31		
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	MSAM	1	1	17.36	17.32	17.32		
20	MSAM	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				371500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1882.5	1897.5	19.3	0.0
15	QPSK	1	1	17.36	17.36	17.33	19.3	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1882.5	1910	19.3	0.0
10	QPSK	1	1	17.34	17.39	17.31	19.3	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1882.5	1912.5	19.3	0.0
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				485000					
Frequency (MHz)				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				
10	PI2 BPSK	25	0		20.28			21.7	0.0
10	PI2 BPSK	25	14		20.47			21.7	0.0
10	PI2 BPSK	25	27		20.21			21.7	0.0
10	PI2 BPSK	50	0		20.32				
10	QPSK	1	1		20.86				
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			21.7	0.0
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			21.5	0.2
10	256QAM	1	1		19.23			19.5	2.2
Channel				481500	482000	482500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
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				345000	345000	345000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1		17.09	17.04	16.92		
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	18.0	0.0
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		16.99	17.06	16.81	18.0	0.0
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		16.85	16.95	16.77	18.0	0.0
40	64QAM	1	1		16.87	16.89	16.70	18.0	0.0
40	256QAM	1	1		16.86	16.92	16.81	18.0	0.0
Channel				345000	345000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
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			
20	QPSK	1	1		16.81	16.95	16.92	18.0	0.0
Channel				343500	345500	345500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1		16.79	16.87	16.87	18.0	0.0
Channel				343000	345000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1		16.80	16.91	16.97	18.0	0.0
Channel				342500	345000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1		16.79	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						345500			
Frequency (MHz)						1702.5			
15	PI2 BPSK	1	1		17.31			18.6	0.0
15	PI2 BPSK	1	40		17.09				
15	PI2 BPSK	1	77		16.83				
15	PI2 BPSK	36	0		17.03			18.6	0.0
15	PI2 BPSK	36	22		17.10			18.6	0.0
15	PI2 BPSK	36	43		16.97			18.6	0.0
15	PI2 BPSK	72	0		17.04				
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			18.6	0.0
15	QPSK	36	43		17.08			18.6	0.0
15	QPSK	72	0		17.11				
15	16QAM	1	1		16.94			18.6	0.0
15	64QAM	1	1		17.02			18.6	0.0
15	256QAM	1	1		17.01			18.6	0.0
Channel				340000	345500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1		16.96	17.01	16.95	18.6	0.0
Channel				339500	345500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
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				509202	518998	528000	19.9	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
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	18.85	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	19.9	0.0	
100	QPSK	1	1	18.68	18.92	18.51			
100	QPSK	1	137	18.57	18.64	18.56			
100	QPSK	1	271	18.18	18.29	18.23	19.9	0.0	
100	QPSK	135	0	18.59	18.70	18.51	19.9	0.0	
100	QPSK	135	69	18.79	18.90	18.73	19.9	0.0	
100	QPSK	135	138	18.40	18.36	18.29	19.9	0.0	
100	QPSK	270	0	18.54	18.62	18.52	19.9	0.0	
100	8QAM	1	1	18.51	18.66	18.31			
100	8QAM	1	1	18.61	18.71	18.27			
100	256QAM	1	1	18.62	18.73	18.32	19.9	0.0	
Channel				508200	518998	528998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	18.60	18.66	18.33	19.9	0.0	
Channel				507204	518998	529998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	18.56	18.66	18.38	19.9	0.0	
Channel				505202	518998	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	18.59	18.77	18.30	19.9	0.0	
Channel				502200	518998	531998	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	18.57	18.71	18.31	19.9	0.0	
Channel				504204	518998	532998	Tune-up limit	MPR	
Frequency (MHz)				2531.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	18.52	18.71	18.30	19.9	0.0	
Channel				503202	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	18.51	18.75	18.38	19.9	0.0	
Channel				502200	518998	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	18.52	18.70	18.31	19.9	0.0	
Channel				501204	518998	535998	Tune-up limit	MPR	
Frequency (MHz)				2498.00	2592.99	2679.99	(dBm)	(dB)	
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				509202	518998	528000	22.9	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.59	21.73	21.44	22.9	0.0	
100	PI2 BPSK	1	137	21.45	21.62	21.53			
100	PI2 BPSK	1	271	21.08	21.23	21.08			
100	PI2 BPSK	135	0	21.52	21.65	21.36	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	22.9	0.0	
100	QPSK	1	1	21.67	21.92	21.45			
100	QPSK	1	137	21.56	21.61	21.61			
100	QPSK	1	271	21.22	21.26	21.18	22.9	0.0	
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	22.9	0.0	
100	16QAM	1	1	21.45	21.66	21.31			
100	64QAM	1	1	21.55	21.70	21.22			
100	256QAM	1	1	21.66	21.74	21.32	22.9	0.0	
Channel				508200	518998	528998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	21.53	21.53	21.41	22.9	0.0	
Channel				507204	518998	529998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	21.50	21.60	21.41	22.9	0.0	
Channel				505202	518998	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	21.60	21.87	21.41	22.9	0.0	
Channel				502200	518998	531998	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	21.57	21.82	21.34	22.9	0.0	
Channel				504204	518998	532998	Tune-up limit	MPR	
Frequency (MHz)				2531.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	21.60	21.79	21.38	22.9	0.0	
Channel				503202	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	21.55	21.88	21.33	22.9	0.0	
Channel				502200	518998	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	21.64	21.81	21.37	22.9	0.0	
Channel				501204	518998	535998	Tune-up limit	MPR	
Frequency (MHz)				2498.00	2592.99	2679.99	(dBm)	(dB)	
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				638000	641666	645332	12.6	0.0	
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	10.84	10.83	10.66	12.6	0.0	
40	PI2 BPSK	1	53	10.70	10.73	10.66			
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	10.98	10.73	10.67	12.6	0.0	
40	PI2 BPSK	100	0	10.72	10.71	10.66	12.6	0.0	
40	QPSK	1	1	10.75	10.85	10.71			
40	QPSK	1	53	10.72	10.82	10.67			
40	QPSK	1	104	10.70	10.76	10.68	12.6	0.0	
40	QPSK	50	0	10.82	10.91	10.80			
40	QPSK	50	28	10.71	10.84	10.84			
40	QPSK	50	56	10.79	10.79	10.71	12.6	0.0	
40	QPSK	100	0	10.81	10.83	10.63	12.6	0.0	
40	16QAM	1	1	10.62	10.86	10.65			
40	64QAM	1	1	10.68	10.75	10.68			
40	256QAM	1	1	10.65	10.76	10.63	12.6	0.0	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	10.82	10.77	10.67	12.6	0.0	
Channel				637334	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	10.81	10.77	10.68	12.6	0.0	
Channel				637000	641666	646332	Tune-up limit	MPR	
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	10.62	10.76	10.67	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)				3750	3840	3930			
100	PI2 BPSK	1	1	11.40	11.55	11.48	12.6	0.0	
100	PI2 BPSK	1	137	11.32	11.34	11.30			
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	11.32	11.33			
100	QPSK	1	1	11.45	11.69	11.50			
100	QPSK	1	137	11.36	11.48	11.37	12.6	0.0	
100	QPSK	1	271	11.27	11.53	11.37	12.6	0.0	
100	QPSK	135	0	11.42	11.49	11.31			
100	QPSK	135	69	11.29	11.50	11.35			
100	QPSK	135	138	11.29	11.47	11.30	12.6	0.0	
100	QPSK	270	0	11.37	11.39	11.37	12.6	0.0	
100	16QAM	1	1	11.29	11.51	11.45			
100	16QAM	1	1	11.30	11.47	11.35			
100	256QAM	1	1	11.27	11.42	11.36	12.6	0.0	
Channel									
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	11.34	11.52	11.39	12.6	0.0	
Channel									
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	11.29	11.46	11.40	12.6	0.0	
Channel									
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	11.37	11.45	11.39	12.6	0.0	
Channel									
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	11.28	11.52	11.45	12.6	0.0	
Channel									
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	11.34	11.44	11.38	12.6	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	11.28	11.49	11.42	12.6	0.0	
Channel									
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	11.27	11.45	11.45	12.6	0.0	
Channel									
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	11.27	11.42	11.41	12.6	0.0	
Channel									
Frequency (MHz)				3707.169	3840	3972.51	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	11.31	11.49	11.38	12.6	0.0	
Channel									
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
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)									
3750 3840 3930									
100	PI2 BPSK	1	1	14.54	14.78	14.67	15.6	0.0	
100	PI2 BPSK	1	137	14.46	14.49	14.46			
100	PI2 BPSK	1	271	14.42	14.71	14.42			
100	PI2 BPSK	135	0	14.50	14.66	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	14.68	14.52	15.6	0.0	
100	QPSK	135	0	14.60	14.70	14.52			
100	QPSK	135	69	14.44	14.73	14.49			
100	QPSK	135	138	14.41	14.65	14.52	15.6	0.0	
100	QPSK	270	0	14.61	14.62	14.60	15.6	0.0	
100	16QAM	1	1	14.45	14.69	14.70			
100	16QAM	1	1	14.55	14.67	14.53			
100	256QAM	1	1	14.50	14.67	14.57	15.6	0.0	
Channel									
Frequency (MHz)									
3745.02 3840 3935.01									
90	QPSK	1	1	14.47	14.71	14.64	15.6	0.0	
Channel									
Frequency (MHz)									
3740.01 3840 3940.02									
80	QPSK	1	1	14.40	14.64	14.58	15.6	0.0	
Channel									
Frequency (MHz)									
3735 3840 3945									
70	QPSK	1	1	14.47	14.64	14.55	15.6	0.0	
Channel									
Frequency (MHz)									
3730.02 3840 3950.01									
60	QPSK	1	1	14.51	14.67	14.63	15.6	0.0	
Channel									
Frequency (MHz)									
3725.01 3840 3955.02									
50	QPSK	1	1	14.42	14.71	14.63	15.6	0.0	
Channel									
Frequency (MHz)									
3720 3840 3960									
40	QPSK	1	1	14.41	14.67	14.59	15.6	0.0	
Channel									
Frequency (MHz)									
3715.02 3840 3965.01									
30	QPSK	1	1	14.45	14.68	14.58	15.6	0.0	
Channel									
Frequency (MHz)									
3710.01 3840 3970.02									
20	QPSK	1	1	14.43	14.76	14.55	15.6	0.0	
Channel									
Frequency (MHz)									
3707.169 3840 3972.51									
15	QPSK	1	1	14.48	14.68	14.56	15.6	0.0	
Channel									
Frequency (MHz)									
3705 3840 3975									
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)									
3500.01									
100	PV2 BPSK	1	1	11.97			12.6	0.0	
100	PV2 BPSK	1	137	11.89					
100	PV2 BPSK	1	221	11.89					
100	PV2 BPSK	135	0	11.81			12.6	0.0	
100	PV2 BPSK	135	69	11.78			12.6	0.0	
100	PV2 BPSK	135	138	11.83			12.6	0.0	
100	PV2 BPSK	270	0	11.81			12.6	0.0	
100	QPSK	1	1	12.13			12.6	0.0	
100	QPSK	1	137	11.84					
100	QPSK	1	271	11.98					
100	QPSK	135	0	11.83			12.6	0.0	
100	QPSK	135	69	11.89			12.6	0.0	
100	QPSK	135	138	11.86			12.6	0.0	
100	QPSK	270	0	11.79			12.6	0.0	
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)				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
QPSK				1	1	3495	3500.01	3505.02	
96	Channel			633668	633334	633000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490.02	3500.01	3510.01	12.6	0.0	
80	QPSK	1	1	11.81	11.76	11.81	12.6	0.0	
Channel				633334	633334	633334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01	12.6	0.0	
76	QPSK	1	1	11.73	11.86	11.81	12.6	0.0	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02	12.6	0.0	
60	QPSK	1	1	11.76	11.70	11.81	12.6	0.0	
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525	12.6	0.0	
50	QPSK	1	1	11.76	11.81	11.86	12.6	0.0	
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01	12.6	0.0	
40	QPSK	1	1	11.73	11.78	11.89	12.6	0.0	
Channel				631000	633334	635668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3535.02	12.6	0.0	
30	QPSK	1	1	11.74	11.81	11.81	12.6	0.0	
Channel				630668	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540	12.6	0.0	
20	QPSK	1	1	11.80	11.86	11.80	12.6	0.0	
Channel				630334	633334	636338	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.5	3500.01	3542.52	12.6	0.0	
15	QPSK	1	1	11.72	11.80	11.85	12.6	0.0	
Channel				630000	633334	636668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3500.01	3545.01	12.6	0.0	
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				63300.1		3500.01		
Frequency (MHz)				63300.1		3500.01		
100	Pi2 BPSK	1	1	14.75			15.6	0.0
100	Pi2 BPSK	1	137	14.46				
100	Pi2 BPSK	1	271	14.75				
100	Pi2 BPSK	135	0	14.81			15.6	0.0
100	Pi2 BPSK	135	69	14.63			15.6	0.0
100	Pi2 BPSK	135	138	14.62			15.6	0.0
100	Pi2 BPSK	270	0	14.54				
100	QPSK	1	1	14.91				
100	QPSK	1	137	14.66				
100	QPSK	1	271	14.68			15.6	0.0
100	QPSK	135	0	14.66			15.6	0.0
100	QPSK	135	69	14.75			15.6	0.0
100	QPSK	135	138	14.65			15.6	0.0
100	QPSK	270	0	14.58				
100	16QAM	1	1	14.64			15.6	0.0
100	64QAM	1	1	14.69			15.6	0.0
100	256QAM	1	1	14.68			15.6	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.62	14.64	14.63	15.6	0.0
Channel				633668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.53	14.60	14.53	15.6	0.0
Channel				633234	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.58	14.56	14.58	15.6	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.56	14.52	14.49	15.6	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.59	14.53	14.53	15.6	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.51	14.55	14.59	15.6	0.0
Channel				630998	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.55	14.56	14.49	15.6	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.05	3500.01	3540		
20	QPSK	1	1	14.49	14.58	14.50	15.6	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	14.59	14.51	14.57	15.6	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	14.56	14.54	14.49	15.6	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				649000		3750		
Frequency (MHz)				649000		3750		
100	Pi2 BPSK	1	1	10.96			12.6	0.0
100	Pi2 BPSK	1	137	10.69				
100	Pi2 BPSK	1	271	10.84				
100	Pi2 BPSK	135	0	10.87			12.6	0.0
100	Pi2 BPSK	135	69	10.82			12.6	0.0
100	Pi2 BPSK	135	138	10.88			12.6	0.0
100	Pi2 BPSK	270	0	10.70				
100	QPSK	1	1	11.11				
100	QPSK	1	137	10.80				
100	QPSK	1	271	11.03			12.6	0.0
100	QPSK	135	0	10.81			12.6	0.0
100	QPSK	135	69	10.91			12.6	0.0
100	QPSK	135	138	10.89			12.6	0.0
100	QPSK	270	0	10.73				
100	16QAM	1	1	10.87			12.6	0.0
100	64QAM	1	1	10.92			12.6	0.0
100	256QAM	1	1	10.81			12.6	0.0
Channel				649068	650000	650334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	10.86	10.86	10.94	12.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	10.82	10.78	10.81	12.6	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	10.74	10.77	10.82	12.6	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	10.83	10.80	10.72	12.6	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	10.73	10.80	10.72	12.6	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	10.79	10.77	10.74	12.6	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	10.80	10.77	10.79	12.6	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	10.79	10.74	10.81	12.6	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	10.83	10.78	10.72	12.6	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	10.75	10.81	10.80	12.6	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				633000		3500.01		
Frequency (MHz)				3495		3505.02		
100	Pi2 BPSK	1	1	12.16			12.6	0.0
100	Pi2 BPSK	1	137	11.79				
100	Pi2 BPSK	1	271	12.00				
100	Pi2 BPSK	135	0	11.95			12.6	0.0
100	Pi2 BPSK	135	69	11.99			12.6	0.0
100	Pi2 BPSK	135	138	11.96			12.6	0.0
100	Pi2 BPSK	270	0	11.88				
100	QPSK	1	1	12.24				
100	QPSK	1	137	11.95				
100	QPSK	1	271	12.18			12.6	0.0
100	QPSK	135	0	12.03			12.6	0.0
100	QPSK	135	69	12.09			12.6	0.0
100	QPSK	135	138	11.96			12.6	0.0
100	QPSK	270	0	11.91				
100	16QAM	1	1	12.07			12.6	0.0
100	64QAM	1	1	11.97			12.6	0.0
100	256QAM	1	1	12.03			12.6	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	12.09	12.04	12.11	12.6	0.0
Channel				633668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	12.03	12.00	11.98	12.6	0.0
Channel				633234	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	12.04	11.92	12.02	12.6	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	11.99	11.99	12.05	12.6	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	12.02	12.02	12.03	12.6	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	12.00	11.93	12.03	12.6	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	11.99	11.98	11.97	12.6	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.05	3500.01	3540		
20	QPSK	1	1	11.98	11.95	11.97	12.6	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	12.05	11.99	12.03	12.6	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3454.91	3500.01	3544.01		
10	QPSK	1	1	12.01	12.01	12.03	12.6	0.0



n48 Part96 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)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	15.39	15.67	15.34	17.3	0.0	
40	PI2 BPSK	1	53	15.39	15.60	15.36			
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	15.36	15.64	15.40	17.3	0.0	
40	QPSK	1	104	15.36	15.59	15.41			
40	QPSK	50	0	15.66	15.66	15.66			
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	17.3	0.0	
40	16QAM	1	1	15.36	15.56	15.41			
40	64QAM	1	1	15.37	15.53	15.43			
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)	
30	QPSK	1	1	15.31	15.47	15.36	17.3	0.0	
Channel									
Frequency (MHz)				636542	641666	646000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.31	15.54	15.33	17.3	0.0	
Channel									
Frequency (MHz)				635556	632249	3694.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.38	15.56	15.32	17.3	0.0	

Part270 n77 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)				3750	3840	3930			
100	PI2 BPSK	1	1	13.34	13.38	12.91	14.5	0.0	
100	PI2 BPSK	1	137	13.21	13.24	12.90			
100	PI2 BPSK	1	271	13.23	13.29	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	13.45	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			
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	14.5	0.0	
100	16QAM	1	1	13.27	13.28	12.79			
100	64QAM	1	1	13.27	13.35	12.85			
100	256QAM	1	1	13.23	13.26	12.87	14.5	0.0	
Channel									
Frequency (MHz)				647502	6540	663811	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	13.23	13.35	12.92	14.5	0.0	
Channel									
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	13.30	13.31	12.77	14.5	0.0	
Channel									
Frequency (MHz)				646968	656000	663000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	13.32	13.28	12.88	14.5	0.0	
Channel									
Frequency (MHz)				646968	656000	663334	Tune-up limit (dBm)	MPR (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)	
50	QPSK	1	1	13.23	13.32	12.98	14.5	0.0	
Channel									
Frequency (MHz)				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	13.24	13.35	12.86	14.5	0.0	
Channel									
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR (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)	
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)	
15	QPSK	1	1	13.27	13.28	12.89	14.5	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	13.26	13.36	12.81	14.5	0.0	

Part270 n77 PC2 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)				3750	3840	3930			
100	PI2 BPSK	1	1	16.40	16.36	15.92	17.5	0.0	
100	PI2 BPSK	1	137	16.24	16.21	15.86			
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	16.30	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	16.26	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			
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	15.86	17.5	0.0	
100	16QAM	1	1	16.22	16.28	15.84			
100	64QAM	1	1	16.21	16.38	15.91			
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	
90	QPSK	1	1	16.27	16.32	15.83	17.5	0.0	
Channel									
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	16.29	16.32	15.81	17.5	0.0	
Channel									
Frequency (MHz)				646968	656000	663000	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	16.30	16.26	15.85	17.5	0.0	
Channel									
Frequency (MHz)				646968	656000	663334	Tune-up limit (dBm)	MPR	
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	
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	
40	QPSK	1	1	16.34	16.22	15.88	17.5	0.0	
Channel									
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR	
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	
20	QPSK	1	1	16.34	16.31	15.79	17.5	0.0	
Channel									
Frequency (MHz)				647168	656000	664513	Tune-up limit (dBm)	MPR	
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	
10	QPSK	1	1	16.37	16.27	15.83	17.5	0.0	

Part27Q n77 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				633334	3500.01		14.5	0.0
Frequency (MHz)				3500.01	13.38			
100	PI/2 BPSK	1	1		13.15		14.5	0.0
100	PI/2 BPSK	1	137		13.17			
100	PI/2 BPSK	1	271		13.20		14.5	0.0
100	PI/2 BPSK	135	0		13.25			
100	PI/2 BPSK	135	69		13.24		14.5	0.0
100	PI/2 BPSK	135	138		13.26			
100	PI/2 BPSK	270	0		13.42		14.5	0.0
100	QPSK	1	1		13.35			
100	QPSK	1	137		13.25		14.5	0.0
100	QPSK	1	271		13.27			
100	QPSK	135	0		13.36		14.5	0.0
100	QPSK	135	69		13.28			
100	QPSK	135	138		13.35		14.5	0.0
100	QPSK	270	0		13.19			
100	16QAM	1	1		13.21		14.5	0.0
100	64QAM	1	1		13.20			
100	256QAM	1	1		633000	633334	633668	MPR
Channel				633000	633334	633668	Tune-up limit (dBm)	
Frequency (MHz)				3495	3500.01	3505.02	(dB)	
90	QPSK	1	1	13.32	13.23	13.31	14.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dB)	
80	QPSK	1	1	13.29	13.13	13.25	14.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	
70	QPSK	1	1	13.29	13.11	13.26	14.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dB)	
60	QPSK	1	1	13.28	13.15	13.22	14.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dB)	
50	QPSK	1	1	13.15	13.15	13.28	14.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	
40	QPSK	1	1	13.23	13.10	13.19	14.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dB)	
30	QPSK	1	1	13.27	13.12	13.19	14.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dB)	
20	QPSK	1	1	13.24	13.17	13.25	14.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	
15	QPSK	1	1	13.23	13.20	13.21	14.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	
10	QPSK	1	1	13.19	13.10	13.20	14.5	0.0

Part27Q n77 PC2 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				633334	3500.01		17.5	0.0
Frequency (MHz)				3500.01	16.39			
100	PI/2 BPSK	1	1		16.16		17.5	0.0
100	PI/2 BPSK	1	137		16.13			
100	PI/2 BPSK	1	271		16.14		17.5	0.0
100	PI/2 BPSK	135	0		16.19			
100	PI/2 BPSK	135	69		16.24		17.5	0.0
100	PI/2 BPSK	135	138		16.29			
100	PI/2 BPSK	270	0		16.41		17.5	0.0
100	QPSK	1	1		16.36			
100	QPSK	1	137		16.23		17.5	0.0
100	QPSK	1	271		16.28			
100	QPSK	135	0		16.38		17.5	0.0
100	QPSK	135	69		16.34			
100	QPSK	135	138		16.36		17.5	0.0
100	QPSK	270	0		16.20			
100	16QAM	1	1		16.19		17.5	0.0
100	64QAM	1	1		16.15			
100	256QAM	1	1		633000	633334	633668	MPR
Channel				633000	633334	633668	Tune-up limit (dBm)	
Frequency (MHz)				3495	3500.01	3505.02	(dB)	
90	QPSK	1	1	16.26	16.29	16.26	17.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dB)	
80	QPSK	1	1	16.14	16.17	16.16	17.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	
70	QPSK	1	1	16.15	16.15	16.18	17.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dB)	
60	QPSK	1	1	16.21	16.20	16.24	17.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dB)	
50	QPSK	1	1	16.23	16.25	16.13	17.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	
40	QPSK	1	1	16.24	16.18	16.13	17.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dB)	
30	QPSK	1	1	16.25	16.26	16.18	17.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dB)	
20	QPSK	1	1	16.18	16.25	16.19	17.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dB)	
15	QPSK	1	1	16.15	16.21	16.16	17.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dB)	
10	QPSK	1	1	16.26	16.26	16.21	17.5	0.0

Part270 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				3750					
Frequency (MHz)									
100	Pl2 BPSK	1	1		13.33		14.5	0.0	
100	Pl2 BPSK	1	137		13.12				
100	Pl2 BPSK	1	271		13.24				
100	Pl2 BPSK	135	0		13.23		14.5	0.0	
100	Pl2 BPSK	135	69		13.29		14.5	0.0	
100	Pl2 BPSK	135	138		13.28		14.5	0.0	
100	Pl2 BPSK	270	0		13.22				
100	QPSK	1	1		13.45				
100	QPSK	1	137		13.33		14.5	0.0	
100	QPSK	1	271		13.38				
100	QPSK	135	0		13.29			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				
100	64QAM	1	1		13.30			0.0	
100	256QAM	1	1		13.16		14.5	0.0	
Channel				649668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1	13.23	13.30	13.20	14.5	0.0	
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	13.10	13.18	13.15	14.5	0.0	
Channel				648000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	13.19	13.22	13.18	14.5	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	13.18	13.26	13.17	14.5	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	13.14	13.22	13.14	14.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	13.18	13.27	13.17	14.5	0.0	
Channel				3715.02	3750	3785.01	Tune-up limit	MPR	
Frequency (MHz)							(dBm)	(dB)	
30	QPSK	1	1	13.17	13.16	13.14	14.5	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	13.12	13.22	13.12	14.5	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1	13.11	13.20	13.16	14.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	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				633334		3500.01			
Frequency (MHz)									
100	Pl2 BPSK	1	1		13.23		14.5	0.0	
100	Pl2 BPSK	1	137		13.08				
100	Pl2 BPSK	1	271		13.15				
100	Pl2 BPSK	135	0		13.15		14.5	0.0	
100	Pl2 BPSK	135	69		13.21		14.5	0.0	
100	Pl2 BPSK	135	138		13.18		14.5	0.0	
100	Pl2 BPSK	270	0		13.17				
100	QPSK	1	1		13.37				
100	QPSK	1	137		13.28		14.5	0.0	
100	QPSK	1	271		13.30				
100	QPSK	135	0		13.17			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		13.15				
100	64QAM	1	1		13.27			0.0	
100	256QAM	1	1		13.11		14.5	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1	13.20	13.14	13.20	14.5	0.0	
Channel				630668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	13.10	13.07	13.15	14.5	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	13.13	13.10	13.11	14.5	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	13.16	13.08	13.10	14.5	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	13.09	13.09	13.13	14.5	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	13.18	13.03	13.18	14.5	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	13.16	13.00	13.16	14.5	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	13.08	13.08	13.16	14.5	0.0	
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	13.11	13.00	13.16	14.5	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	21.91	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	21.83		
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		
20	PI2 BPSK	100	0	21.59	21.68	21.62		
20	QPSK	1	1	21.89	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	21.85	21.88	23.0	0.0
20	QPSK	50	56	21.39	21.48	21.44		
20	QPSK	100	0	21.55	21.58	21.55		
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	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

n5 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				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		
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		
20	PI2 BPSK	100	0	22.99	23.04	22.99		
20	QPSK	1	1	23.01	23.30	23.11	24.0	0.0
20	QPSK	1	53	23.00	23.05	22.95		
20	QPSK	1	104	22.89	22.98	22.95		
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		
20	QPSK	100	0	23.10	23.18	23.14		
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	Tune-up limit (dBm)	MPR (dB)
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836	836.5	841		
10	QPSK	1	1	22.96	22.91	23.03	24.0	0.0
Channel				166300	167300	169300	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

n7 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				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	22.68	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	22.64		
40	PI2 BPSK	216	0	22.59	22.65	22.60		
40	QPSK	1	1	22.67	22.82	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	22.58	22.69	22.65	24.0	0.0
40	QPSK	108	108	22.58	22.60	22.57		
40	QPSK	216	0	22.80	22.85	22.58		
40	16QAM	1	1	22.83	22.72	22.88	24.0	0.0
40	64QAM	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	22.68	24.0	0.0
Channel				502000	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	2550		
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	2562.5		
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



n12 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				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	23.19		
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	23.16		
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	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				142600	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				142000	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600				
Frequency (MHz)				793				
10	PI2 BPSK	1	1		23.38		24.0	0.0
10	PI2 BPSK	1	26		23.32			
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	64QAM	1	1		22.50		23.0	1.0
10	256QAM	1	1		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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
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	23.0	0.0
20	PI2 BPSK	100	0	21.86	21.97	21.88		
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	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	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				370600	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				164800	166300	167800	
Frequency (MHz)				624	631.5	639	
20	PV2 BPSK	1	1	23.16	23.34	23.18	
20	PV2 BPSK	1	53	23.01	23.20	23.01	24.0
20	PV2 BPSK	1	104	23.07	23.23	23.05	
20	PV2 BPSK	50	0	23.08	23.27	23.09	24.0
20	PV2 BPSK	50	28	23.00	23.19	23.02	24.0
20	PV2 BPSK	50	56	23.01	23.21	23.05	
20	PV2 BPSK	100	0	23.14	23.38	23.08	24.0
20	QPSK	1	1	23.09	23.39	23.15	
20	QPSK	1	53	23.01	23.18	22.95	24.0
20	QPSK	1	104	23.01	23.18	23.03	
20	QPSK	50	0	23.05	23.23	23.03	24.0
20	QPSK	50	28	23.06	23.39	23.07	24.0
20	QPSK	50	56	23.00	23.20	23.01	
20	QPSK	100	0	23.11	23.27	23.12	24.0
20	16QAM	1	1	23.14	23.35	23.18	24.0
20	64QAM	1	1	21.53	21.71	21.50	22.5
20	256QAM	1	1	20.09	20.26	20.09	20.5
Channel				164300	166300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	23.01	23.17	23.06	24.0
Channel				163600	166300	168900	
Frequency (MHz)				816	831.5	844	
10	QPSK	1	1	23.03	23.16	23.10	24.0
Channel				163300	166300	169300	
Frequency (MHz)				818.5	831.5	846.5	
5	QPSK	1	1	23.07	23.19	23.07	24.0

n30 Main PA Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel					462000		
Frequency (MHz)					2310		
10	PV2 BPSK	1	1		21.15		
10	PV2 BPSK	1	26		21.09		
10	PV2 BPSK	1	50		21.14		
10	PV2 BPSK	25	0		19.82		21.5
10	PV2 BPSK	25	14		20.82		22.0
10	PV2 BPSK	25	27		20.24		
10	PV2 BPSK	50	0		20.61		21.5
10	QPSK	1	1		21.17		
10	QPSK	1	26		21.12		22.0
10	QPSK	1	50		20.54		
10	QPSK	25	0		20.65		21.0
10	QPSK	25	14		20.62		22.0
10	QPSK	25	27		20.34		
10	QPSK	50	0		20.13		21.0
10	16QAM	1	1		19.93		21.0
10	64QAM	1	1		18.47		19.5
10	256QAM	1	1		17.22		17.5
Channel				461500	462000	462500	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	21.14	21.14	21.12	22.0

n66 Main PA Ant0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PV2 BPSK	1	1	21.58	22.48	21.99	
40	PV2 BPSK	1	108	21.58	22.43	21.98	23.0
40	PV2 BPSK	1	214	21.63	22.51	22.02	
40	PV2 BPSK	108	0	21.16	22.04	21.49	22.5
40	PV2 BPSK	108	54	21.64	22.43	21.97	23.0
40	PV2 BPSK	108	108	21.20	21.99	21.55	
40	PV2 BPSK	216	0	21.12	21.99	21.53	22.5
40	QPSK	1	1	21.67	22.53	22.05	
40	QPSK	1	108	21.62	22.46	22.01	23.0
40	QPSK	1	214	21.63	22.43	21.99	
40	QPSK	108	0	20.62	21.98	21.07	22.0
40	QPSK	108	54	21.54	22.43	21.93	23.0
40	QPSK	108	108	20.59	21.40	21.04	
40	QPSK	216	0	20.95	21.37	20.91	22.0
40	16QAM	1	1	20.57	21.36	20.97	22.0
40	64QAM	1	1	19.19	19.99	19.59	20.5
40	256QAM	1	1	17.19	18.04	17.50	18.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.63	22.40	21.96	23.0
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.61	22.42	21.92	23.0
Channel				343000	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.55	22.49	21.51	23.0
Channel				342000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.53	22.47	21.97	23.0
Channel				341500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.53	22.45	21.98	23.0



n70 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				340500	1702.5			
Frequency (MHz)					1702.5			
15	PI2 BPSK	1	1		21.87		23.0	0.0
15	PI2 BPSK	1	40		21.84			
15	PI2 BPSK	1	77		21.89			
15	PI2 BPSK	36	0		21.85		23.0	0.0
15	PI2 BPSK	36	22		21.74		23.0	0.0
15	PI2 BPSK	36	43		21.76		23.0	0.0
15	PI2 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	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	341000	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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134500	136100	137600		
Frequency (MHz)				673	680.5	688		
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	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	23.52	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	22.96	22.92	22.97	23.0	1.0
20	QPSK	50	28	23.50	23.53	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	20.86	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				506002	518598	530000			
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	138	22.45	22.47	22.38	24.0	0.0	
100	PI2 BPSK	270	0	22.53	22.61	22.53	24.0	0.0	
100	QPSK	1	1	22.90	23.01	22.96			
100	QPSK	1	137	22.85	22.88	22.86			
100	QPSK	1	271	22.69	22.72	22.69	24.0	0.0	
100	QPSK	135	0	22.73	22.78	22.72			
100	QPSK	135	69	22.79	22.83	22.77			
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	64QAM	1	1	22.47	22.55	22.50	24.0	0.0	
100	256QAM	1	1	22.34	22.33	22.23	22.5	1.5	
Channel				506000	518598	529998	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	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.82	22.85	22.80	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	22.81	22.96	22.95	24.0	0.0	
Channel				506200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2692.99	2664.98			
60	QPSK	1	1	22.82	22.99	22.93	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.84	22.97	22.92	24.0	0.0	
Channel				506202	518598	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	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.85	22.91	22.92	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.81	22.98	22.96	24.0	0.0	

n41 PC2 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	518598	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pl2 BPSK	1	1	25.78	25.81	25.76	27.0	0.0	
100	Pl2 BPSK	1	137	25.72	25.77	25.70			
100	Pl2 BPSK	1	271	25.61	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	25.65	25.71	25.68	26.5	0.5	
100	Pl2 BPSK	270	0	25.69	25.73	25.65			
100	QPSK	1	1	25.64	26.02	25.71	27.0	0.0	
100	QPSK	1	137	25.89	25.98	25.95			
100	QPSK	1	271	25.83	25.91	25.83			
100	QPSK	135	0	25.57	25.45	25.38	26.0	1.0	
100	QPSK	135	69	25.38	25.65	25.38	27.0	0.0	
100	QPSK	135	138	25.48	25.48	25.39	26.0	1.0	
100	QPSK	270	0	25.51	25.57	25.50			
100	16QAM	1	1	25.58	25.61	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				509200	518598	529000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.54	25.96	25.62	27.0	0.0	
Channel				507204	518598	529000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.57	25.94	25.68	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	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2592.99	2649.98			
60	QPSK	1	1	25.58	25.94	25.68	27.0	0.0	
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.62	26.00	25.68	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	25.59	25.97	25.65	27.0	0.0	
Channel				502200	518598	534000	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				501204	518598	535000	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	



n2 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	376000	380000	23.0	0.0
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		
20	PI2 BPSK	1	104	21.19	21.23	21.15	23.0	0.0
20	PI2 BPSK	50	0	21.41	21.45	21.41	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	21.28	21.23	23.0	0.0
20	QPSK	1	1	21.57	21.64	21.23		
20	QPSK	1	53	21.26	21.29	21.27		
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	21.22	21.23	21.17	23.0	0.0
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	18.66	18.72	18.63	20.0	3.0
Channel				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.52	21.61	21.14	23.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1952	1970	1905		
10	QPSK	1	1	21.51	21.55	21.15	23.0	0.0
Channel				370000	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.55	21.55	21.20	23.0	0.0

n5 Main PA Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.29	23.32	23.25		
20	PI2 BPSK	1	53	23.05	23.08	23.00		
20	PI2 BPSK	1	104	23.16	23.22	23.19	24.0	0.0
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	24.0	0.0
20	QPSK	1	1	23.11	23.39	23.08		
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	24.0	0.0
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				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.03	23.30	23.04	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				820	836.5	844		
10	QPSK	1	1	23.04	23.32	23.01	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.03	23.31	23.03	24.0	0.0

n7 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				504000	507000	510000	23.0	0.0
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	21.01	22.37	22.14		
40	PI2 BPSK	1	108	21.03	22.33	22.03		
40	PI2 BPSK	1	214	21.02	22.41	22.94	22.5	0.5
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	22.06	23.0	0.0
40	QPSK	1	1	21.06	22.46	22.20		
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	21.0	1.0
40	16QAM	1	1	20.05	21.46	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	17.98	17.69	18.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	21.03	22.44	22.13	23.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	21.05	22.42	22.05	23.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	21.03	22.40	22.15	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.07	22.39	22.18	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.04	22.40	22.17	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.03	22.38	22.17	23.0	0.0



n12 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				141300	141500	141700	24.0	0.0
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		
15	PI2 BPSK	1	77	23.14	23.21	23.16	24.0	0.0
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	24.0	0.0
15	QPSK	1	1	23.32	23.30	23.38		
15	QPSK	1	40	23.34	23.44	23.38		
15	QPSK	1	77	23.32	23.38	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	23.26	23.21	24.0	0.0
15	QPSK	75	0	23.26	23.33	23.28	24.0	0.0
15	16QAM	1	1	22.92	23.01	22.96	24.0	0.0
15	64QAM	1	1	22.06	22.12	22.07	23.0	1.0
15	256QAM	1	1	20.42	20.48	20.47	21.0	3.0
Channel				142000	141500	142000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711	24.0	0.0
10	QPSK	1	1	23.25	23.48	23.35	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5	24.0	0.0
5	QPSK	1	1	23.28	23.44	23.28	24.0	0.0

n14 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				158000	158000		24.0	0.0
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.29				
10	PI2 BPSK	1	26	23.19				
10	PI2 BPSK	1	50	23.15			24.0	0.0
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			24.0	0.0
10	QPSK	1	1	23.56				
10	QPSK	1	26	23.25				
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	23.23			24.0	0.0
10	16QAM	1	1	23.51			24.0	0.0
10	64QAM	1	1	22.31			23.0	1.0
10	256QAM	1	1	20.58			21.0	3.0
Channel				158100	158000	158100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	24.0	0.0
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	23.0	0.0
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		
20	PI2 BPSK	1	104	21.51	21.56	21.53	23.0	0.0
20	PI2 BPSK	50	0	21.49	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	23.0	0.0
20	QPSK	1	1	21.53	21.67	21.51		
20	QPSK	1	53	21.45	21.52	21.44		
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	23.0	0.0
20	16QAM	1	1	21.56	21.60	21.57	22.0	1.0
20	64QAM	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	23.0	0.0
15	QPSK	1	1	21.47	21.65	21.48	23.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1927.5	1910	23.0	0.0
10	QPSK	1	1	21.44	21.62	21.45	23.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1912.5	23.0	0.0
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				164500	166300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.19	23.23	23.20	24.0	0.0
20	PI2 BPSK	1	53	23.08	23.14	23.06		
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	28	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	24.0	0.0
20	QPSK	1	53	23.05	23.13	23.06		
20	QPSK	1	104	23.17	23.20	23.13	24.0	0.0
20	QPSK	50	0	23.11	23.19	23.11		
20	QPSK	50	28	23.13	23.42	23.19		
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	19.94	20.02	19.96	21.0	3.0
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	23.10	23.25	23.05	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				817	831.5	844		
10	QPSK	1	1	23.14	23.25	23.09	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	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				164500	166500			
Frequency (MHz)					2310			
10	PI2 BPSK	1	1		20.61		22.0	0.0
10	PI2 BPSK	1	26		20.52			
10	PI2 BPSK	1	50		20.51			
10	PI2 BPSK	25	0		18.91		20.5	1.5
10	PI2 BPSK	25	14		20.27		22.0	0.0
10	PI2 BPSK	25	27		19.51		20.5	1.5
10	PI2 BPSK	50	0		20.10			
10	QPSK	1	1		20.70		22.0	0.0
10	QPSK	1	26		20.55			
10	QPSK	1	50		20.05			
10	QPSK	25	0		20.21		21.0	1.0
10	QPSK	25	14		20.43		22.0	0.0
10	QPSK	25	27		20.26		21.0	1.0
10	QPSK	50	0		19.35			
10	16QAM	1	1		19.09		21.0	1.0
10	64QAM	1	1		18.08		19.5	2.5
10	256QAM	1	1		16.80		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	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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	21.43	22.36	21.85	23.0	0.0
40	PI2 BPSK	1	108	21.45	22.33	21.84		
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	23.0	0.0
40	QPSK	1	108	21.46	22.36	21.82		
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				345500	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.50	22.41	21.82	23.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	21.50	22.39	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	21.44	22.38	21.85	23.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.44	22.41	21.85	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	21.49	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	Tune-up limit (dBm)	MPR (dB)
Channel				340500				
Frequency (MHz)				1702.5				
15	PI/2 BPSK	1	1	21.14			22.0	0.0
15	PI/2 BPSK	1	40	21.12				
15	PI/2 BPSK	1	77	20.98				
15	PI/2 BPSK	36	0	20.99			22.0	0.0
15	PI/2 BPSK	36	22	21.02			22.0	0.0
15	PI/2 BPSK	36	43	20.99			22.0	0.0
15	PI/2 BPSK	75	0	21.03			22.0	0.0
15	QPSK	1	1	21.16				
15	QPSK	1	40	21.15				
15	QPSK	1	77	20.91			22.0	0.0
15	QPSK	36	0	20.98				
15	QPSK	36	22	21.09				
15	QPSK	36	43	20.97			22.0	0.0
15	QPSK	75	0	21.03			22.0	0.0
15	16QAM	1	1	21.01				
15	64QAM	1	1	19.33				
15	256QAM	1	1	17.77			19.0	3.0
Channel				340000	340200	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	21.08	21.13	21.13	22.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	21.12	21.07	21.12	22.0	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				138600	139100	139600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.96	23.98	23.91	24.5	0.0
20	PI/2 BPSK	1	53	23.84	23.91	23.84		
20	PI/2 BPSK	1	104	23.73	23.75	23.69		
20	PI/2 BPSK	50	0	23.51	23.57	23.49	24.0	0.5
20	PI/2 BPSK	50	26	23.85	23.89	23.86	24.5	0.0
20	PI/2 BPSK	50	56	23.39	23.49	23.41	24.0	0.5
20	PI/2 BPSK	100	0	23.45	23.52	23.47	24.5	0.0
20	QPSK	1	1	24.01	24.07	23.85		
20	QPSK	1	53	23.81	23.86	23.81		
20	QPSK	1	104	23.67	23.76	23.66	23.5	1.0
20	QPSK	50	0	22.94	23.01	22.95		
20	QPSK	50	26	23.85	23.92	23.87		
20	QPSK	50	56	22.90	22.86	22.77	23.5	1.0
20	QPSK	100	0	23.02	23.04	23.01	23.5	1.0
20	16QAM	1	1	23.08	23.11	23.06		
20	64QAM	1	1	21.35	21.41	21.35		
20	256QAM	1	1	19.74	19.78	19.68	20.0	4.5
Channel				138100	137100	136100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.97	24.00	23.83	24.5	0.0
Channel				138600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				680	680.5	683		
10	QPSK	1	1	23.93	24.04	23.82	24.5	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.94	24.03	23.76	24.5	0.0



n41 Main PA Ant1

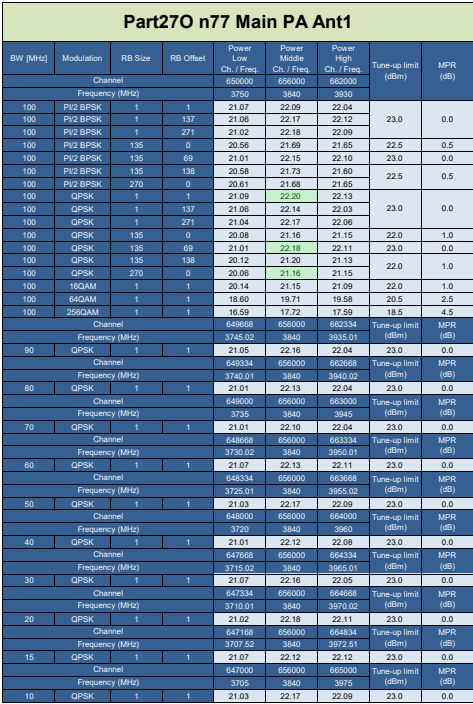
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505202	518598	529000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	23.64	23.71	23.63		
100	PV2 BPSK	1	137	23.45	23.55	23.51		
100	PV2 BPSK	1	271	23.45	23.54	23.46	24.0	0.0
100	PV2 BPSK	135	0	23.27	23.36	23.28		
100	PV2 BPSK	135	69	23.63	23.67	23.58		
100	PV2 BPSK	135	138	23.17	23.21	23.12		
100	PV2 BPSK	270	0	23.08	23.12	23.07	24.0	0.0
100	QPSK	1	1	23.21	23.75	23.16		
100	QPSK	1	137	23.45	23.53	23.47		
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	23.25	23.15	24.0	0.0
100	QPSK	270	0	23.43	23.51	23.42	24.0	0.0
100	16QAM	1	1	23.37	23.44	23.41	24.0	0.0
100	64QAM	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				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.18	23.65	23.08	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	23.11	23.65	23.13	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.12	23.63	23.08	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	23.16	23.64	23.12	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.11	23.64	23.07	24.0	0.0
Channel				503202	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.15	23.69	23.12	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.16	23.65	23.10	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	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.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505202	518598	529000	27.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	26.57	26.62	26.59		
100	PV2 BPSK	1	137	26.42	26.46	26.41		
100	PV2 BPSK	1	271	26.41	26.45	26.43	27.0	0.0
100	PV2 BPSK	135	0	26.31	26.35	26.28		
100	PV2 BPSK	135	69	26.57	26.60	26.58		
100	PV2 BPSK	135	138	26.44	26.47	26.45		
100	PV2 BPSK	270	0	26.33	26.42	26.33	27.0	0.0
100	QPSK	1	1	26.16	26.68	26.42		
100	QPSK	1	137	26.46	26.55	26.51		
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	26.45	26.48	26.45	27.0	0.0
100	16QAM	1	1	26.17	26.24	26.17	27.0	0.0
100	64QAM	1	1	24.39	24.48	24.40	25.5	1.5
100	256QAM	1	1	23.11	23.14	23.11	24.0	3.0
Channel				503200	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	26.13	26.59	26.32	27.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	26.15	26.64	26.33	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	26.12	26.65	26.36	27.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.99		
60	QPSK	1	1	26.12	26.63	26.39	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	26.12	26.61	26.36	27.0	0.0
Channel				503202	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	26.14	26.62	26.35	27.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	26.11	26.62	26.35	27.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	26.13	26.60	26.36	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				636900	641666	645332	23.0	0.0
Frequency (MHz)				3670	3624.99	3679.98		
40	PV2 BPSK	1	1	21.61	21.65	21.66		
40	PV2 BPSK	1	53	21.57	21.60	21.53		
40	PV2 BPSK	1	104	21.52	21.58	21.59	22.5	0.5
40	PV2 BPSK	50	0	21.63	21.65	21.63	23.0	0.0
40	PV2 BPSK	50	26	21.52	21.66	21.45	22.5	0.5
40	PV2 BPSK	50	56	21.53	21.62	21.51	22.5	0.5
40	PV2 BPSK	100	0	21.66	21.61	21.51	23.0	0.0
40	QPSK	1	1	21.66	21.75	21.68	22.0	1.0
40	QPSK	1	53	21.63	21.67	21.55		
40	QPSK	1	104	21.62	21.69	21.61		
40	QPSK	50	0	21.58	21.62	21.64		
40	QPSK	50	26	21.55	21.69	21.53	22.0	1.0
40	QPSK	80	56	21.58	21.67	21.59	22.0	1.0
40	QPSK	100	0	21.51	21.66	21.55	22.0	1.0
40	16QAM	1	1	21.54	21.65	21.53	22.0	1.0
40	64QAM	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				637000	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3665.02	3624.99	3684.99		
30	QPSK	1	1	21.57	21.69	21.62	23.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	21.61	21.69	21.57	23.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3684.98		
10	QPSK	1	1	21.54	21.62	21.64	23.0	0.0



Part270 n77 PC2 Main PA Ant1									
BIW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
				665000	665000	665000			
				3750	3840	3930			
100	P2/BPSK	1	1	24.29	24.30	24.25			
100	P2/BPSK	1	137	24.26	24.34	24.31	26.0	0.0	
100	P2/BPSK	1	271	24.17	24.34	24.27			
100	P2/BPSK	156	69	23.70	24.31	23.83	25.5	0.5	
100	P2/BPSK	135	89	24.28	24.30	24.28	26.0	0.0	
100	P2/BPSK	135	138	23.71	23.98	23.77	25.5	0.5	
100	P2/BPSK	270	0	23.85	23.91	23.81			
100	QPSK	1	1	24.33	24.43	24.30			
100	QPSK	1	137	24.22	24.31	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	25.5	1.0	
100	QPSK	135	69	24.18	24.42	24.31	26.0	0.0	
100	QPSK	135	138	23.31	23.44	23.31	25.5	1.0	
100	QPSK	270	0	23.28	23.42	23.30			
100	16QAM	1	1	23.33	23.34	23.24	25.0	1.0	
100	64QAM	1	1	21.83	21.89	21.73	23.5	2.5	
100	256QAM	1	1	19.82	19.96	19.77	21.5	4.5	
Channel									
				649668	665000	662334	Turn-up limit (dBm)	MPR (dB)	
				3745.052	3840	3955.01	(dBm)	(dB)	
90	QPSK	1	1	24.29	24.30	24.18	26.0	0.0	
Channel									
				649334	665000	662698	Turn-up limit (dBm)	MPR (dB)	
				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	24.27	24.31	24.20	26.0	0.0	
Channel									
				649000	665000	663000	Turn-up limit (dBm)	MPR (dB)	
				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	24.27	24.37	24.18	26.0	0.0	
Channel									
				648668	665000	663334	Turn-up limit (dBm)	MPR (dB)	
				3720.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	24.20	24.31	24.18	26.0	0.0	
Channel									
				648334	665000	663668	Turn-up limit (dBm)	MPR (dB)	
				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	24.29	24.33	24.23	26.0	0.0	
Channel									
				648000	665000	664000	Turn-up limit (dBm)	MPR (dB)	
				3720	3840	3950	(dBm)	(dB)	
40	QPSK	1	1	24.24	24.37	24.22	26.0	0.0	
Channel									
				647668	665000	664334	Turn-up limit (dBm)	MPR (dB)	
				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	24.30	24.31	24.23	26.0	0.0	
Channel									
				647334	665000	664668	Turn-up limit (dBm)	MPR (dB)	
				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	24.32	24.38	24.27	26.0	0.0	
Channel									
				647168	666000	664834	Turn-up limit (dBm)	MPR (dB)	
				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	24.30	24.43	24.15	26.0	0.0	
Channel									
				646834	666000	665000	Turn-up limit (dBm)	MPR (dB)	
				3705	3840	3975	(dBm)	(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.	Turn-up limit. (dBm)	MPR (dB)	
Channel									
		Frequency (MHz)			633334	3500 01			
100	P2G BPSK	1	1	22 87					
100	P2G BPSK	1	137	22 83			23.0	0.0	
100	P2G BPSK	1	271	22 81					
100	P2G BPSK	155	0	22 85			22.5	0.5	
100	P2G BPSK	135	69	22 84			23.0	0.0	
100	P2G BPSK	135	138	22 35			22.5	0.5	
100	P2G BPSK	270	0	22 32					
100	QPSK	1	1	22 62					
100	QPSK	1	137	22 76			23.0	0.0	
100	QPSK	1	271	22 70					
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 78					
100	16QAM	1	1	21 97			22.0	1.0	
100	64QAM	1	1	20 32			20.5	2.5	
100	256QAM	1	1	18 35			18.5	4.5	
Channel									
		Frequency (MHz)		633000	633334	636668	Turn-up limit. (dB)	MPR (dB)	
90	QPSK	1	1	24 85	3500 01	3505 02			
		Frequency (MHz)		22 37	22 42	22 76	23.0	0.0	
Channel									
		Frequency (MHz)		632668 <th>633334</th> <th>634000</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	634000	Turn-up limit. (dB)	MPR (dB)	
80	QPSK	1	1	24 86	3500 01	3510			
		Frequency (MHz)		22 76	22 81	23 00	23.0	0.0	
Channel									
		Frequency (MHz)		633278 <th>633334</th> <th>633438</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	633438	Turn-up limit. (dB)	MPR (dB)	
70	QPSK	1	1	24 85	3500 01	3515 01			
		Frequency (MHz)		22 79	22 86	22 79	23.0	0.0	
Channel									
		Frequency (MHz)		632000 <th>633334</th> <th>634668</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	634668	Turn-up limit. (dB)	MPR (dB)	
60	QPSK	1	1	24 80	3500 01	3520 02			
		Frequency (MHz)		22 78	22 78	23 00	23.0	0.0	
Channel									
		Frequency (MHz)		631668 <th>633334</th> <th>635000</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	635000	Turn-up limit. (dB)	MPR (dB)	
50	QPSK	1	1	24 75	3500 01	3525			
		Frequency (MHz)		22 76	22 87	22 79	23.0	0.0	
Channel									
		Frequency (MHz)		631334 <th>633334</th> <th>635334</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	635334	Turn-up limit. (dB)	MPR (dB)	
40	QPSK	1	1	24 70	3500 01	3530 01			
		Frequency (MHz)		22 87	22 71	23 00	23.0	0.0	
Channel									
		Frequency (MHz)		631000 <th>633334</th> <th>635668</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	635668	Turn-up limit. (dB)	MPR (dB)	
30	QPSK	1	1	24 65	3500 01	3535 02			
		Frequency (MHz)		22 83	22 80	22 73	23.0	0.0	
Channel									
		Frequency (MHz)		630668 <th>633334</th> <th>636000</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	636000	Turn-up limit. (dB)	MPR (dB)	
20	QPSK	1	1	24 60	3500 01	3540			
		Frequency (MHz)		22 78	22 85	22 81	23.0	0.0	
Channel									
		Frequency (MHz)		630200 <th>633334</th> <th>636168</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	636168	Turn-up limit. (dB)	MPR (dB)	
15	QPSK	1	1	24 57	3500 01	3542 52	23.0	0.0	
		Frequency (MHz)		22 83	22 84	22 73	23.0	0.0	
Channel									
		Frequency (MHz)		630334 <th>633334</th> <th>636334</th> <th>Turn-up limit. (dB)</th> <th>MPR (dB)</th> <td></td>	633334	636334	Turn-up limit. (dB)	MPR (dB)	
10	QPSK	1	1	24 55	3500 01	3545 01	23.0	0.0	
		Frequency (MHz)		22 81	22 88	22 79	23.0	0.0	



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)
Channel				633334			26.0	0.0
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	25.57				
100	PI2 BPSK	1	137	25.53				
100	PI2 BPSK	1	271	25.48				
100	PI2 BPSK	135	0	25.38			25.5	0.5
100	PI2 BPSK	135	69	25.54			26.0	0.0
100	PI2 BPSK	135	138	25.32			25.5	0.5
100	PI2 BPSK	270	0	25.29				
100	QPSK	1	1	24.71	24.65		26.0	0.0
100	QPSK	1	137	25.56				
100	QPSK	1	271	25.54				
100	QPSK	135	0	24.74			25.0	1.0
100	QPSK	135	69	25.62			26.0	0.0
100	QPSK	135	138	24.71			25.0	1.0
100	QPSK	270	0	24.65				
100	16QAM	1	1	24.85			25.0	1.0
100	64QAM	1	1	23.21			23.5	2.5
100	256QAM	1	1	21.12			21.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	25.56	25.57	25.56	26.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.48	25.52	25.53	26.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	25.50	25.60	25.55	26.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.52	25.57	25.49	26.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.48	25.55	25.48	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.51	25.60	25.48	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.50	25.57	25.54	26.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.52	25.61	25.55	26.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	25.49	25.55	25.57	26.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	25.55	25.53	25.50	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000			22.0	0.0
Frequency (MHz)				37500				
100	PI2 BPSK	1	1	20.44	20.56	20.47		
100	PI2 BPSK	1	137	20.51	20.56	20.54		
100	PI2 BPSK	1	271	20.31	20.53	20.51		
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		
100	QPSK	1	1	20.56	20.64	20.53	22.0	0.0
100	QPSK	1	137	20.43	20.56	20.47		
100	QPSK	1	271	20.32	20.60	20.42		
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	19.45	21.0	1.0
100	QPSK	270	0	19.42	19.54	19.48		
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	15.96	17.5	4.5
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.53	20.54	20.43	22.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.45	20.50	20.49	22.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.43	20.52	20.47	22.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.09	3750	3763.01		
60	QPSK	1	1	20.44	20.62	20.46	22.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.50	20.53	20.43	22.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.42	20.55	20.49	22.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.40	20.51	20.41	22.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.51	20.54	20.51	22.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	20.51	20.50	20.40	22.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
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				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	21.44			22.0	0.0
100	PI2 BPSK	1	137	21.42				
100	PI2 BPSK	1	271	21.33				
100	PI2 BPSK	135	0	21.07			21.5	0.5
100	PI2 BPSK	135	69	21.48			22.0	0.0
100	PI2 BPSK	135	138	21.00			21.5	0.5
100	PI2 BPSK	270	0	21.07				
100	QPSK	1	1	20.47	21.52		22.0	0.0
100	QPSK	1	137	21.46				
100	QPSK	1	271	21.40				
100	QPSK	135	0	20.52			21.0	1.0
100	QPSK	135	69	21.49			22.0	0.0
100	QPSK	135	138	20.47			21.0	1.0
100	QPSK	270	0	20.46				
100	16QAM	1	1	20.57			21.0	1.0
100	64QAM	1	1	19.06			19.5	2.5
100	256QAM	1	1	17.06			17.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	21.37	21.36	21.40	22.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.35	21.43	21.39	22.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	21.36	21.39	21.33	22.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	21.38	21.36	21.41	22.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.28	21.41	21.34	22.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.28	21.42	21.35	22.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.28	21.40	21.33	22.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.29	21.43	21.39	22.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	21.29	21.43	21.38	22.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	21.36	21.43	21.39	22.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372500	376500	380500		
Frequency (MHz)				1860	1880	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	23.0	0.0
20	PI2 BPSK	100	0	21.64	21.72	21.64	23.0	0.0
20	QPSK	1	1	21.81	21.86	21.67		
20	QPSK	1	53	21.80	21.86	21.83		
20	QPSK	1	104	21.78	21.81	21.78	23.0	0.0
20	QPSK	50	0	21.70	21.79	21.76		
20	QPSK	50	28	21.78	21.83	21.80		
20	QPSK	50	56	21.99	21.88	21.64	23.0	0.0
20	QPSK	100	0	21.73	21.76	21.67	23.0	0.0
20	16QAM	1	1	21.77	21.86	21.80		
20	64QAM	1	1	20.60	20.67	20.64		
20	256QAM	1	1	18.86	18.90	18.81	20.0	3.0
Channel				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.77	21.79	21.59	23.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1952	1970	1905	(dBm)	(dB)
10	QPSK	1	1	21.70	21.84	21.64	23.0	0.0
Channel				370500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	21.78	21.85	21.60	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				584000	597000	610000		
Frequency (MHz)				2620	2635	2650		
40	PI2 BPSK	1	1	22.19	22.26	22.23	23.0	0.0
40	PI2 BPSK	1	108	22.17	22.24	22.22		
40	PI2 BPSK	1	214	22.04	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	23.0	0.0
40	QPSK	1	1	22.19	22.20	22.17		
40	QPSK	1	108	22.18	22.22	22.12		
40	QPSK	1	214	22.01	22.06	22.03	23.0	0.0
40	QPSK	108	0	22.03	22.12	22.10		
40	QPSK	108	54	22.16	22.21	22.17		
40	QPSK	108	108	22.00	22.06	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	21.98	21.96		
40	64QAM	1	1	20.70	20.72	20.64		
40	256QAM	1	1	19.26	19.29	19.21	20.0	3.0
Channel				593000	607000	611000	Tune-up limit	MPR
Frequency (MHz)				2615	2635	2655	(dBm)	(dB)
30	QPSK	1	1	22.10	22.21	22.12	23.0	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2517.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	22.16	22.25	22.14	23.0	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	PI2 BPSK	1	1	22.16	22.26	22.11	23.0	0.0
Channel				501000	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2497.5	2535	2567.5	(dBm)	(dB)
15	QPSK	1	1	22.12	22.20	22.08	23.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	22.15	22.19	22.09	23.0	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
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 Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				370500	376500	381500		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	21.87	21.96	21.87	23.0	0.0
20	PI2 BPSK	1	53	21.85	21.88	21.81		
20	PI2 BPSK	1	104	21.86	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	21.87	21.72	21.70	23.0	0.0
20	PI2 BPSK	100	0	21.70	21.75	21.72	23.0	0.0
20	QPSK	1	1	21.77	21.96	21.67		
20	QPSK	1	53	21.67	21.77	21.71		
20	QPSK	1	104	21.71	21.78	21.69	23.0	0.0
20	QPSK	50	0	21.78	21.80	21.76		
20	QPSK	50	28	21.83	21.86	21.81		
20	QPSK	50	56	21.63	21.69	21.64	23.0	0.0
20	QPSK	100	0	21.68	21.77	21.74	23.0	0.0
20	16QAM	1	1	21.33	21.39	21.31		
20	64QAM	1	1	20.44	20.49	20.46		
20	256QAM	1	1	18.86	18.94	18.85	20.0	3.0
Channel				371050	376550	381600	Tune-up limit	MPR
Frequency (MHz)				1857.5	1882.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	21.71	21.93	21.64	23.0	0.0
Channel				371000	376500	382000	Tune-up limit	MPR
Frequency (MHz)				1952	1972.5	1910	(dBm)	(dB)
10	QPSK	1	1	21.74	21.93	21.64	23.0	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1882.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	21.75	21.86	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				463000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	21.69				
10	PI2 BPSK	1	26	21.65			23.0	0.0
10	PI2 BPSK	1	50	21.56			22.5	0.5
10	PI2 BPSK	25	0	20.84			23.0	0.0
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	21.55				
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	20.90			22.0	1.0
10	QPSK	50	0	20.11				
10	16QAM	1	1	20.09			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				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

n66 Main PA Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	348000	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		
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		
40	QPSK	1	1	22.01	22.14	21.92		
40	QPSK	1	108	21.78	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	23.0	0.0
40	QPSK	108	108	21.85	21.92	21.86		
40	QPSK	216	0	21.87	21.97	21.95	23.0	0.0
40	16QAM	1	1	21.84	21.88	21.79	23.0	0.0
40	64QAM	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				345000	346000	353000	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	21.76	23.0	0.0
Channel				345500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.92	22.07	21.74	23.0	0.0
Channel				345000	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

n70 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				346500				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1		22.26			
15	PI2 BPSK	1	40		22.21		23.0	0.0
15	PI2 BPSK	1	77		22.05		23.0	0.0
15	PI2 BPSK	36	0		22.21		23.0	0.0
15	PI2 BPSK	36	22		22.18		23.0	0.0
15	PI2 BPSK	36	43		22.09		23.0	0.0
15	PI2 BPSK	75	0		22.15			
15	QPSK	1	1		22.29		23.0	0.0
15	QPSK	1	40		22.17			
15	QPSK	1	77		22.03			
15	QPSK	36	0		22.16		23.0	0.0
15	QPSK	36	22		22.23		23.0	0.0
15	QPSK	36	43		22.06		23.0	0.0
15	QPSK	75	0		22.20			
15	16QAM	1	1		22.28		23.0	0.0
15	64QAM	1	1		20.44		22.0	1.0
15	256QAM	1	1		18.98		20.0	3.0
Channel				340000	340500	341000	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



n41 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	518598	529000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.15	23.19	23.16	24.0	0.0	
100	PI2 BPSK	1	137	22.94	23.02	22.99			
100	PI2 BPSK	1	271	22.72	22.81	22.75	24.0	0.0	
100	PI2 BPSK	135	0	23.07	23.14	23.10			
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	22.92	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			
100	QPSK	135	138	22.68	22.76	22.69	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	64QAM	1	1	22.91	22.95	22.86		0.0	
100	256QAM	1	1	22.30	22.36	22.34	22.5	1.5	
Channel				505000	518598	529000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.88	23.18	22.78	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.83	23.15	22.83	24.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.86	23.14	22.78	24.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.88	23.13	22.78	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.85	23.16	22.81	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.84	23.16	22.80	24.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.11	22.32.99	23.74.98	24.0	0.0	
30	QPSK	1	1	22.86	23.13	22.82	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.89	23.15	22.83	24.0	0.0	

n41 PC2 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505002	518598	529000	27.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	26.27	26.29	26.27	27.0	0.0	
100	PI2 BPSK	1	137	26.10	26.15	26.07			
100	PI2 BPSK	1	271	26.04	26.12	26.03	27.0	0.0	
100	PI2 BPSK	135	0	26.03	26.07	26.04			
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	25.92	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		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	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				505202	518598	529996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	27.0	0.0	
90	QPSK	1	1	25.93	26.30	26.07	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	27.0	0.0	
80	QPSK	1	1	25.93	26.28	26.09	27.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	27.0	0.0	
70	QPSK	1	1	25.90	26.23	26.09	27.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	27.0	0.0	
60	QPSK	1	1	25.93	26.29	26.09	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	27.0	0.0	
50	QPSK	1	1	25.93	26.23	26.06	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	27.0	0.0	
40	QPSK	1	1	25.92	26.25	26.02	27.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.11	22.32.99	23.74.98	27.0	0.0	
30	QPSK	1	1	25.88	26.25	26.03	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	27.0	0.0	
20	QPSK	1	1	25.93	26.26	26.09	27.0	0.0	

n48 Part96 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				636000	641666	645332	24.0	0.0	
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	22.22	22.21	22.26	24.0	0.0	
40	PI2 BPSK	1	53	22.22	22.17	22.17			
40	PI2 BPSK	1	104	22.16	22.23	22.14	23.5	0.5	
40	PI2 BPSK	50	0	22.26	22.21	22.18			
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		23.5	
40	PI2 BPSK	100	0	22.15	22.23	22.11	24.0	0.0	
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	
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	22.26	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				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3575.02	3624.99	3684.99	24.0	0.0	
30	QPSK	1	1	22.23	22.31	22.30			
Channel				3560.01	3624.99	3650	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.25	22.30	22.21	24.0	0.0	
Frequency (MHz)				3570.03	361666	365332			
Channel				3555	3624.99	3694.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.21	22.32	22.20	24.0	0.0	
Frequency (MHz)				3560.01	3624.99	3694.98			



Part270 n77 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	23.0	0.0	
Frequency (MHz)									
100	PI2 BPSK	1	1	22.08	22.08	22.18			
100	PI2 BPSK	1	137	22.18	22.08	22.07			
100	PI2 BPSK	1	271	22.01	22.17	22.05	22.5	0.5	
100	PI2 BPSK	135	0	22.19	22.14	22.08			
100	PI2 BPSK	135	69	22.11	22.13	22.12			
100	PI2 BPSK	135	138	22.02	22.14	22.03			
100	PI2 BPSK	270	0	22.03	22.08	21.98	23.0	0.0	
100	QPSK	1	1	22.23	22.23	22.26			
100	QPSK	1	137	22.11	22.20	22.12			
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	20.99	22.0	1.0	
100	64QAM	1	1	19.71	19.86	19.82	20.5	2.5	
100	256QAM	1	1	17.73	17.67	17.76	18.5	4.5	
Channel				64956	65000	65234	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.15	22.27	22.22	23.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	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)	
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				648000	656000	664000	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)				3713.02	3840	3963.01			
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	

Part270 n77 PC2 Main PA Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930	26.0	0.0	
Frequency (MHz)									
100	PI2 BPSK	1	1	24.12	24.79	24.11			
100	PI2 BPSK	1	137	24.06	24.84	24.04			
100	PI2 BPSK	1	271	24.12	24.86	24.09	25.5	0.5	
100	PI2 BPSK	135	0	23.83	24.36	23.81			
100	PI2 BPSK	135	69	24.12	24.94	24.12			
100	PI2 BPSK	135	138	23.80	24.41	23.61			
100	PI2 BPSK	270	0	23.70	24.48	23.70	26.0	0.0	
100	QPSK	1	1	24.21	24.96	24.16			
100	QPSK	1	137	24.10	24.84	24.11			
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	64QAM	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	650000	662334	Tune-up limit (dBm)	MPR (dB)	
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	24.05	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	664000	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)				3713.02	3840	3963.01			
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					633334		23.0	0.0	
Frequency (MHz)					3500.01				
100	PI2 BPSK	1	1		22.31				
100	PI2 BPSK	1	137		22.38				
100	PI2 BPSK	1	271		22.37		22.5	0.5	
100	PI2 BPSK	135	0		21.90				
100	PI2 BPSK	135	69		22.33				
100	PI2 BPSK	135	138		21.94				
100	PI2 BPSK	270	0		21.88		22.5	0.5	
100	QPSK	1	1		22.42				
100	QPSK	1	137		22.40				
100	QPSK	1	271		22.37				
100	QPSK	135	0		21.43		23.0	1.0	
100	QPSK	135	69		22.30		22.0	0.0	
100	QPSK	135	138		21.40		22.0	1.0	
100	QPSK	270	0		21.48		22.0	1.0	
100	16QAM	1	1		21.38		22.0	1.0	
100	64QAM	1	1		19.96		20.5	2.5	
100	256QAM	1	1		17.87		18.5	4.5	
Channel				633000	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	22.34	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	22.40	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	22.34	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				630300	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.31	22.33	22.25	23.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.29	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.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		25.48		26.0	0.0	
100	PI2 BPSK	1	137		25.46				
100	PI2 BPSK	1	271		25.46				
100	PI2 BPSK	135	0		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				
100	QPSK	1	1		25.59				
100	QPSK	1	137		25.50		26.0	0.0	
100	QPSK	1	271		25.51				
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				
100	16QAM	1	1		24.60		25.0	1.0	
100	64QAM	1	1		23.07		23.5	2.5	
100	256QAM	1	1		21.13		21.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		25.36	25.45	25.31	26.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		25.45	25.48	25.38	26.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		25.36	25.56	25.42	26.0	0.0
Channel				633000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3500.01	3520.02			
60	QPSK	1	1		25.36	25.54	25.42	26.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		25.42	25.45	25.32	26.0	0.0
Channel				631234	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		25.46	25.53	25.37	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3537.02			
30	QPSK	1	1		25.46	25.47	25.33	26.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		25.41	25.47	25.33	26.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.5			
15	QPSK	1	1		25.42	25.53	25.35	26.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		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				650000		3750			
Frequency (MHz)						3750			
100	PI2 BPSK	1	1		21.55		23.0	0.0	
100	PI2 BPSK	1	137		21.49				
100	PI2 BPSK	1	271		21.45				
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				
100	QPSK	1	1		20.83		22.0	1.0	
100	QPSK	1	137		20.81				
100	QPSK	1	271		20.80				
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				
100	16QAM	1	1		20.04		22.0	1.0	
100	64QAM	1	1		18.67		20.5	2.5	
100	256QAM	1	1		17.09		18.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1		21.47	21.50	21.48	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1		21.51	21.46	21.51	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1		21.48	21.42	21.51	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3760.01			
60	PI2 BPSK	1	1		21.47	21.47	21.50	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1		21.50	21.45	21.40	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1		21.48	21.41	21.45	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1		21.50	21.45	21.43	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1		21.42	21.48	21.49	23.0	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	PI2 BPSK	1	1		21.42	21.46	21.43	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
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				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		22.14		23.0	0.0	
100	PI2 BPSK	1	137		22.05				
100	PI2 BPSK	1	271		22.06				
100	PI2 BPSK	135	0		21.42				
100	PI2 BPSK	135	69		22.05		23.5	0.5	
100	PI2 BPSK	135	138		21.45		22.5	0.5	
100	PI2 BPSK	270	0		21.46				
100	QPSK	1	1		21.29		23.0	0.0	
100	QPSK	1	137		21.09				
100	QPSK	1	271		21.05				
100	QPSK	135	0		20.23				
100	QPSK	135	69		21.15		23.0	0.0	
100	QPSK	135	138		20.28		22.0	1.0	
100	QPSK	270	0		20.28				
100	16QAM	1	1		20.55		22.0	1.0	
100	64QAM	1	1		19.08		20.5	2.5	
100	256QAM	1	1		18.01		18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1		22.04	22.04	22.05	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI2 BPSK	1	1		22.02	22.09	22.08	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1		22.01	21.98	22.05	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1		22.09	22.08	21.99	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1		22.06	22.05	21.99	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		22.04	22.00	22.01	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1		22.07	22.07	22.03	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		22.02	22.05	22.09	23.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.5			
15	PI2 BPSK	1	1		22.01	22.08	22.08	23.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
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				372500	376500	380500		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.78	22.86	22.79	24.0	0.0
20	PI2 BPSK	1	53	22.75	22.82	22.72		
20	PI2 BPSK	1	104	22.65	22.75	22.69	24.0	0.0
20	PI2 BPSK	50	0	22.70	22.77	22.74		
20	PI2 BPSK	50	28	22.69	22.76	22.68	24.0	0.0
20	PI2 BPSK	50	56	22.70	22.74	22.64		
20	PI2 BPSK	100	0	22.66	22.73	22.65		
20	QPSK	1	1	22.72	22.82	22.67		
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	22.65		
20	QPSK	50	56	22.58	22.67	22.60	24.0	0.0
20	QPSK	100	0	22.63	22.72	22.64		
20	16QAM	1	1	22.89	22.84	22.91	24.0	0.0
20	64QAM	1	1	21.35	21.43	21.35		
20	256QAM	1	1	19.91	19.96	19.87	21.0	3.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.67	22.90	22.61	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.64	22.86	22.61	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.69	22.89	22.57	24.0	0.0

n7 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				584000	587000	590500		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	23.40	23.46	23.44	24.0	0.0
40	PI2 BPSK	1	108	23.27	23.37	23.31		
40	PI2 BPSK	1	214	23.33	23.36	23.28	24.0	0.0
40	PI2 BPSK	108	0	23.37	23.40	23.32		
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		
40	QPSK	108	108	23.24	23.33	23.27	24.0	0.0
40	QPSK	216	0	23.25	23.32	23.23		
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				583000	587000	591000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.16	23.42	23.33	24.0	0.0
Channel				582500	587000	591500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	23.12	23.35	23.27	24.0	0.0
Channel				582000	587000	592000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	23.13	23.46	23.33	24.0	0.0
Channel				581500	587000	592500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.14	23.45	23.35	24.0	0.0
Channel				581000	587000	593000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.14	23.45	23.31	24.0	0.0
Channel				580500	587000	593500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.17	23.42	23.34	24.0	0.0

n25 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				372000	376500	381000		
Frequency (MHz)				1860	1862.5	1905		
20	PI2 BPSK	1	1	22.81	22.85	22.75	24.0	0.0
20	PI2 BPSK	1	53	22.88	22.74	22.67		
20	PI2 BPSK	1	104	22.79	22.91	22.75	24.0	0.0
20	PI2 BPSK	50	0	22.70	22.79	22.70		
20	PI2 BPSK	50	28	22.71	22.75	22.66	24.0	0.0
20	PI2 BPSK	50	56	22.71	22.76	22.72		
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	22.69	24.0	0.0
20	QPSK	50	28	22.89	22.75	22.70		
20	QPSK	50	56	22.83	22.72	22.63	24.0	0.0
20	QPSK	100	0	22.88	22.78	22.71		
20	16QAM	1	1	22.67	22.74	22.65	24.0	0.0
20	64QAM	1	1	21.60	21.65	21.56		
20	256QAM	1	1	20.09	20.12	20.09	21.0	3.0
Channel				371500	376500	381000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.78	22.89	22.79	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.75	22.86	22.78	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
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				463000			24.0	0.0
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	22.79			23.5	0.5
10	PI2 BPSK	1	26	22.75				
10	PI2 BPSK	1	50	22.67			24.0	0.0
10	PI2 BPSK	25	0	21.59				
10	PI2 BPSK	25	14	22.04			23.5	0.5
10	PI2 BPSK	25	27	21.73				
10	PI2 BPSK	50	0	21.52			24.0	0.0
10	QPSK	1	1	22.91				
10	QPSK	1	26	22.46			23.0	1.0
10	QPSK	1	50	22.17				
10	QPSK	25	0	21.83			24.0	0.0
10	QPSK	25	14	22.59				
10	QPSK	25	27	21.86			23.0	1.0
10	QPSK	50	0	21.42				
10	16QAM	1	1	21.13			21.5	2.5
10	64QAM	1	1	19.75				
10	256QAM	1	1	19.23			2307.5	2310
Channel				461500	462000	462500		
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0
5	QPSK	1	1	22.72	22.77	22.72		

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				346000	348000	352000	24.0	0.0
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.90	22.97	22.94	24.0	0.0
40	PI2 BPSK	1	108	22.78	22.85	22.83		
40	PI2 BPSK	1	214	22.92	22.95	22.96	24.0	0.0
40	PI2 BPSK	108	0	22.83	22.91	22.84		
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		
40	PI2 BPSK	216	0	22.82	22.86	22.81	24.0	0.0
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		
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	22.98	23.06	22.98	24.0	0.0
40	64QAM	1	1	21.68	21.71	21.65		
40	256QAM	1	1	20.00	20.03	19.99	21.0	3.0
Channel				343000	345000	347000		
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	QPSK	1	1	23.01	23.08	22.83		
Channel				344000	349000	354000	24.0	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.98	23.02	22.83	24.0	0.0
Channel				341500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0
15	QPSK	1	1	22.98	23.06	22.83		
Channel				343000	349000	355000	24.0	0.0
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.96	23.10	22.86	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0
5	QPSK	1	1	22.98	23.08	22.86		

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				346500			24.0	0.0
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	23.16			24.0	0.0
15	PI2 BPSK	1	40	23.13				
15	PI2 BPSK	1	77	23.10			24.0	0.0
15	PI2 BPSK	36	0	23.08				
15	PI2 BPSK	36	22	23.12			24.0	0.0
15	PI2 BPSK	36	43	23.04				
15	PI2 BPSK	75	0	23.12			24.0	0.0
15	QPSK	1	1	23.23				
15	QPSK	1	40	23.21			24.0	0.0
15	QPSK	1	77	22.97				
15	QPSK	36	0	23.12			24.0	0.0
15	QPSK	36	22	23.13				
15	QPSK	36	43	23.06			24.0	0.0
15	QPSK	75	0	23.10				
15	16QAM	1	1	23.15			24.0	0.0
15	64QAM	1	1	21.22				
15	256QAM	1	1	19.86			240000	341000
Channel				346000	346500	347000		
Frequency (MHz)				1700	1702.5	1705	24.0	0.0
10	QPSK	1	1	23.20	23.19	23.19		
Channel				339500	340500	341500	24.0	0.0
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	23.16	23.21	23.14	24.0	0.0
Channel				340000	340500	341000		



n41 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				506202	518598	529500		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	23.23	23.32	23.29	24.0	0.0
100	PI2 BPSK	1	137	23.03	23.08	23.04		
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	24.0	0.0
100	QPSK	1	1	23.02	23.35	22.95		
100	QPSK	1	137	22.92	23.01	22.97		
100	QPSK	1	271	22.64	22.71	22.62	24.0	0.0
100	QPSK	135	0	23.01	23.04	22.94		
100	QPSK	135	69	23.13	23.23	23.15		
100	QPSK	135	138	22.75	22.79	22.69	24.0	0.0
100	QPSK	270	0	22.94	22.95	22.87	24.0	0.0
100	16QAM	1	1	23.26	23.32	23.28	24.0	0.0
100	64QAM	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				503200	518598	531000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.97	23.32	22.87	24.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.96	23.27	22.90	24.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.98	23.31	22.90	24.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2664.99		
60	QPSK	1	1	22.94	23.30	22.90	24.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.96	23.31	22.92	24.0	0.0
Channel				503202	518598	533000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.95	23.30	22.92	24.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.96	23.23	22.88	24.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	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				506202	518598	529500		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	26.28	26.32	26.29	27.0	0.0
100	PI2 BPSK	1	137	26.09	26.15	26.10		
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	27.0	0.0
100	QPSK	1	1	26.01	26.37	26.07		
100	QPSK	1	137	26.23	26.25	26.22		
100	QPSK	1	271	26.10	26.15	26.09	27.0	0.0
100	QPSK	135	0	26.94	26.01	25.98		
100	QPSK	135	69	25.99	26.02	25.96		
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	64QAM	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				503200	518598	531000		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.98	26.30	26.05	27.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.93	26.33	26.05	27.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.96	26.30	26.00	27.0	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2664.99		
60	QPSK	1	1	25.96	26.33	26.04	27.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.96	26.30	26.03	27.0	0.0
Channel				503202	518598	533000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.94	26.34	25.98	27.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.95	26.34	26.03	27.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
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				636000	641696	646332		
Frequency (MHz)				3670	3624.99	3679.98		
40	PI2 BPSK	1	1	23.74	23.87	23.69	24.5	0.0
40	PI2 BPSK	1	53	23.71	23.84	23.65		
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	28	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	24.5	0.0
40	QPSK	1	1	23.76	23.91	23.71		
40	QPSK	1	53	23.71	23.86	23.68		
40	QPSK	1	104	23.72	23.78	23.62	23.5	1.0
40	QPSK	50	0	22.88	22.92	22.78		
40	QPSK	50	28	23.71	23.78	23.65		
40	QPSK	50	56	22.76	22.80	22.75	23.5	1.0
40	QPSK	100	0	22.82	22.85	22.68	23.5	1.0
40	16QAM	1	1	22.82	22.73	22.73		
40	64QAM	1	1	21.33	21.44	21.19	22.0	2.5
40	256QAM	1	1	19.59	19.64	19.47	20.0	4.5
Channel				631696	641696	645696		
Frequency (MHz)				3665.02	3624.99	3684.99		
30	QPSK	1	1	23.68	23.83	23.68	24.5	0.0
Channel				637334	641696	646000		
Frequency (MHz)				3690.01	3624.99	3690		
20	QPSK	1	1	23.75	23.82	23.85	24.5	0.0
Channel				637000	641696	646332		
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	23.74	23.89	23.61	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)				3750	3840	3930		
100	PV2 BPSK	1	1	23.45	23.68	23.46		
100	PV2 BPSK	1	137	23.41	23.60	23.46	24.5	0.0
100	PV2 BPSK	1	271	23.33	23.57	23.41		
100	PV2 BPSK	135	0	23.43	23.53	23.36	24.5	0.0
100	PV2 BPSK	135	69	23.28	23.56	23.41	24.5	0.0
100	PV2 BPSK	135	138	23.25	23.54	23.34	24.5	0.0
100	PV2 BPSK	270	0	23.37	23.48	23.40		
100	QPSK	1	1	23.53	23.76	23.56		
100	QPSK	1	137	23.45	23.64	23.49	24.5	0.0
100	QPSK	1	271	23.40	23.67	23.50		
100	QPSK	135	0	23.51	23.59	23.45	24.5	0.0
100	QPSK	135	69	23.35	23.62	23.44	24.5	0.0
100	QPSK	135	138	23.26	23.56	23.41	24.5	0.0
100	QPSK	270	0	23.44	23.50	23.43		
100	16QAM	1	1	23.20	23.50	23.38	24.5	0.0
100	64QAM	1	1	23.38	23.41	23.34	24.5	0.0
100	256QAM	1	1	21.88	21.94	21.82	22.5	2.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.43	23.67	23.48	24.5	0.0
Channel								
Frequency (MHz)				6493.34	65000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.43	23.60	23.49	24.5	0.0
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.49	23.71	23.47	24.5	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.44	23.65	23.48	24.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.51	23.65	23.54	24.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3960.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.47	23.72	23.53	24.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.45	23.73	23.49	24.5	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.49	23.66	23.47	24.5	0.0
Channel								
Frequency (MHz)				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.50	23.67	23.54	24.5	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.48	23.70	23.53	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)				3750	3840	3930		
100	PV2 BPSK	1	1	26.34	26.60	26.40		
100	PV2 BPSK	1	137	26.35	26.63	26.40	27.5	0.0
100	PV2 BPSK	1	271	26.34	26.56	26.39		
100	PV2 BPSK	135	0	26.28	26.59	26.37	27.5	0.0
100	PV2 BPSK	135	69	26.44	26.73	26.52	27.5	0.0
100	PV2 BPSK	135	138	26.42	26.77	26.57	27.5	0.0
100	PV2 BPSK	270	0	26.45	26.77	26.52		
100	QPSK	1	1	26.52	26.81	26.59		
100	QPSK	1	137	26.46	26.76	26.57	27.5	0.0
100	QPSK	1	271	26.49	26.75	26.49		
100	QPSK	135	0	26.93	26.59	26.37	27.5	0.0
100	QPSK	135	69	26.30	26.60	26.40	27.5	0.0
100	QPSK	135	138	26.33	26.57	26.40	27.5	0.0
100	QPSK	270	0	26.30	26.58	26.42		
100	16QAM	1	1	26.34	26.62	26.41	27.5	0.0
100	64QAM	1	1	24.77	24.80	24.62	26.0	1.5
100	256QAM	1	1	23.05	23.12	23.08	24.0	3.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	26.43	26.77	26.50	27.5	0.0
Channel								
Frequency (MHz)				6493.34	65000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	26.45	26.76	26.57	27.5	0.0
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	26.48	26.75	26.50	27.5	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	26.46	26.71	26.50	27.5	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	26.43	26.72	26.54	27.5	0.0
Channel								
Frequency (MHz)				3720.02	3840	3960.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	26.49	26.77	26.51	27.5	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	26.43	26.75	26.51	27.5	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	26.42	26.75	26.49	27.5	0.0
Channel								
Frequency (MHz)				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	26.44	26.77	26.51	27.5	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	26.44	26.74	26.54	27.5	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)				3500.01				
100	PV2 BPSK	1	1		23.88		24.5	0.0
100	PV2 BPSK	1	137		23.82			
100	PV2 BPSK	1	271		23.79			
100	PV2 BPSK	135	0		23.83			
100	PV2 BPSK	135	69		23.77			
100	PV2 BPSK	135	138		23.75			
100	PV2 BPSK	270	0		23.72		24.5	0.0
100	QPSK	1	1		23.86		24.5	0.0
100	QPSK	1	137		23.88			
100	QPSK	1	271		23.85			
100	QPSK	135	0		23.71			
100	QPSK	135	69		23.75			
100	QPSK	135	138		23.74			
100	QPSK	270	0		23.71		24.5	0.0
100	16QAM	1	1		23.88		24.5	0.0
100	64QAM	1	1		23.44		24.5	0.0
100	256QAM	1	1		22.54		23.0	1.5
Channel				633000	633334	633668		
Frequency (MHz)				3485	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.83	23.84	23.80	24.5	0.0
Channel				630668	633334	634000		
Frequency (MHz)				3460.02	3500.01	3510.00	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.79	23.83	23.81	24.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.84	23.79	23.79	24.5	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3490.00	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.85	23.83	23.83	24.5	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.80	23.82	23.80	24.5	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.79	23.78	23.78	24.5	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.80	23.84	23.82	24.5	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.83	23.81	23.79	24.5	0.0
Channel				630300	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.02	Tune-up limit (dBm)	(dB)
15	QPSK	1	1	23.82	23.80	23.83	24.5	0.0
Channel				630000	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)
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				633334					
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		28.87				
100	PV2 BPSK	1	137		28.78		27.5	0.0	
100	PV2 BPSK	1	271		28.77				
100	PV2 BPSK	135	0		28.79		27.5	0.0	
100	PV2 BPSK	135	69		28.74		27.5	0.0	
100	PV2 BPSK	135	138		28.71		27.5	0.0	
100	PV2 BPSK	270	0		28.75				
100	QPSK	1	1		28.95		27.5	0.0	
100	QPSK	1	137		28.88				
100	QPSK	1	271		28.82				
100	QPSK	135	0		28.77		27.5	0.0	
100	QPSK	135	69		28.81		27.5	0.0	
100	QPSK	135	138		28.78		27.5	0.0	
100	QPSK	270	0		28.75				
100	16QAM	1	1		28.82		27.5	0.0	
100	64QAM	1	1		25.12		26.0	1.5	
100	256QAM	1	1		23.76		24.0	3.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		26.89	26.87	26.82	27.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		26.89	26.86	26.87	27.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		26.89	26.89	26.85	27.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		26.83	26.87	26.83	27.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	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				650000					
Frequency (MHz)				3750					
100	PV2 BPSK	1	1		23.42				
100	PV2 BPSK	1	137		23.45		25.0	0.0	
100	PV2 BPSK	1	271		23.41				
100	PV2 BPSK	135	0		23.02		24.5	0.5	
100	PV2 BPSK	135	69		23.41		25.0	0.0	
100	PV2 BPSK	135	138		23.01		24.5	0.5	
100	PV2 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		22.48		24.0	1.0	
100	QPSK	270	0		22.45				
100	16QAM	1	1		22.52		24.0	1.0	
100	64QAM	1	1		20.88		22.5	2.5	
100	256QAM	1	1		19.11		20.5	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		23.41	23.43	23.41	25.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3760.01			
60	QPSK	1	1		23.35	23.40	23.38	25.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.35	23.34	23.37	25.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.38	23.37	23.42	25.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3735.01			
30	QPSK	1	1		23.37	23.38	23.35	25.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		23.37	23.42	23.35	25.0	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		23.35	23.33	23.39	25.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
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				633334					
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		23.97				
100	PV2 BPSK	1	137		23.91		25.0	0.0	
100	PV2 BPSK	1	271		23.95				
100	PV2 BPSK	135	0		23.56		24.5	0.5	
100	PV2 BPSK	135	69		23.51		25.0	0.0	
100	PV2 BPSK	135	138		23.52		24.5	0.5	
100	PV2 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	64QAM	1	1		21.28		22.5	2.5	
100	256QAM	1	1		19.70		20.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		23.02	23.89	23.93	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		23.88	23.88	23.97	25.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		23.91	23.90	23.86	25.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		23.89	23.94	23.92	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		23.93	23.91	23.92	25.0	0.0



n48 Part96 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)									
40	PV2 BPSK	1	1	24.41	24.80	24.58	25.5	0.0	
40	PV2 BPSK	1	53	24.36	24.70	24.57			
40	PV2 BPSK	1	104	24.40	24.70	24.58			
40	PV2 BPSK	50	0	24.31	24.34	24.28	25.0	0.5	
40	PV2 BPSK	50	28	24.37	24.75	24.53	25.5	0.0	
40	PV2 BPSK	50	56	23.98	24.30	24.17	25.0	0.5	
40	PV2 BPSK	100	0	23.99	24.32	24.07	25.5	0.0	
40	QPSK	1	1	24.47	24.62	24.62			
40	QPSK	1	53	24.34	24.69	24.55			
40	QPSK	1	104	24.45	24.73	24.49	24.5	1.0	
40	QPSK	50	0	23.81	23.84	23.77			
40	QPSK	50	28	24.38	24.79	24.55			
40	QPSK	50	56	23.48	23.86	23.59	24.5	1.0	
40	QPSK	100	0	23.46	23.87	23.63	24.5	1.0	
40	16QAM	1	1	23.48	23.87	23.60			
40	64QAM	1	1	21.88	21.97	21.82			
40	256QAM	1	1	20.49	20.53	20.48	21.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.37	24.69	24.48	25.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.35	24.72	24.56	25.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.44	24.74	24.50	25.5	0.0	

Part270 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	PV2 BPSK	1	1	24.22	24.34	24.32	25.0	0.0	
100	PV2 BPSK	1	137	24.35	24.44	23.96			
100	PV2 BPSK	1	271	24.29	24.39	23.92			
100	PV2 BPSK	135	0	24.27	24.34	23.93	25.0	0.0	
100	PV2 BPSK	135	69	24.24	24.29	23.84	25.0	0.0	
100	PV2 BPSK	135	138	24.26	24.30	23.89	25.0	0.0	
100	PV2 BPSK	270	0	24.32	24.29	23.87	25.0	0.0	
100	QPSK	1	1	24.42	24.48	24.04			
100	QPSK	1	137	24.31	24.35	24.01			
100	QPSK	1	271	24.29	24.43	23.99	25.0	0.0	
100	QPSK	135	0	24.25	24.33	24.26			
100	QPSK	135	69	24.31	24.45	23.97			
100	QPSK	135	138	24.34	24.44	23.99	25.0	0.0	
100	QPSK	270	0	24.38	24.35	23.94	25.0	0.0	
100	16QAM	1	1	23.88	24.01	23.78			
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)									
90	QPSK	1	1	24.31	24.41	23.96	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.33	24.34	24.00	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.36	24.44	23.91	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.28	24.42	23.93	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.32	24.44	23.97	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.39	24.36	23.93	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.29	24.42	23.92	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.37	24.36	23.92	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.38	24.44	23.90	Tune-up limit. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.35	24.38	23.91	Tune-up limit. (dBm)	MPR (dB)	

Part270 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	PV2 BPSK	1	1	27.15	27.18	27.08	28.0	0.0	
100	PV2 BPSK	1	137	27.11	27.12	27.03			
100	PV2 BPSK	1	271	27.13	27.05	27.05			
100	PV2 BPSK	135	0	27.15	27.26	27.16	28.0	0.0	
100	PV2 BPSK	135	69	27.07	27.21	27.07	28.0	0.0	
100	PV2 BPSK	135	138	27.03	27.18	27.02	28.0	0.0	
100	PV2 BPSK	270	0	27.07	27.14	27.13	28.0	0.0	
100	QPSK	1	1	27.15	27.39	26.99			
100	QPSK	1	137	27.10	27.34	26.92			
100	QPSK	1	271	27.08	27.36	26.87	28.0	0.0	
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	28.0	0.0	
100	16QAM	1	1	26.88	26.71	26.55			
100	64QAM	1	1	26.15	26.30	26.16	26.5	1.5	
100	256QAM	1	1	23.84	23.73	23.68	24.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	27.04	27.26	26.86	28.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	27.08	27.28	26.87	28.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	27.13	27.36	26.89	28.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	27.08	27.34	26.91	28.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	27.08	27.37	26.87	28.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	27.08	27.29	26.89	28.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	27.06	27.27	26.85	28.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	27.09	27.30	26.91	28.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	27.13	27.36	26.88	28.0	0.0	
Channel									
Frequency (MHz)									
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				
100	PI2 BPSK	1	137		24.36		25.0	0.0	
100	PI2 BPSK	1	271		24.31		25.0	0.0	
100	PI2 BPSK	135	0		24.38		25.0	0.0	
100	PI2 BPSK	135	69		24.32		25.0	0.0	
100	PI2 BPSK	135	138		24.25		25.0	0.0	
100	PI2 BPSK	270	0		24.31		25.0	0.0	
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		24.35		25.0	0.0	
100	QPSK	135	69		24.38		25.0	0.0	
100	QPSK	135	138		24.29		25.0	0.0	
100	QPSK	270	0		24.35		25.0	0.0	
100	16QAM	1	1		24.30		25.0	0.0	
100	64QAM	1	1		23.87		24.5	0.5	
100	256QAM	1	1		22.12		22.5	2.5	
Channel				633002	633334	633668			
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			
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			
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			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	24.32	24.38	24.42	25.0	0.0	
Channel				631668	633334	635000			
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			
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			
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1	24.34	24.31	24.35	25.0	0.0	
Channel				630668	633334	636000			
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			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	24.37	24.40	24.42	25.0	0.0	
Channel				630334	633334	636334			
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				
100	PI2 BPSK	1	137		27.26		28.0	0.0	
100	PI2 BPSK	1	271		27.24		28.0	0.0	
100	PI2 BPSK	135	0		27.28		28.0	0.0	
100	PI2 BPSK	135	69		27.25		28.0	0.0	
100	PI2 BPSK	135	138		27.10		28.0	0.0	
100	PI2 BPSK	270	0		27.15		28.0	0.0	
100	QPSK	1	1		27.37				
100	QPSK	1	137		27.31		28.0	0.0	
100	QPSK	1	271		27.28				
100	QPSK	135	0		27.31		28.0	0.0	
100	QPSK	135	69		27.32		28.0	0.0	
100	QPSK	135	138		27.29		28.0	0.0	
100	QPSK	270	0		27.25		28.0	0.0	
100	16QAM	1	1		27.28		28.0	0.0	
100	64QAM	1	1		25.75		26.5	1.5	
100	256QAM	1	1		23.32		24.5	3.5	
Channel				633000	633334	633668			
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			
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			
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			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	27.16	27.26	27.16	28.0	0.0	
Channel				631668	633334	635000			
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			
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			
Frequency (MHz)				3465	3500.01	3533.02			
30	QPSK	1	1	27.17	27.24	27.22	28.0	0.0	
Channel				630668	633334	636000			
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			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	27.28	27.20	27.17	28.0	0.0	
Channel				630334	633334	636334			
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 (dB)	
Channel				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1		23.90		25.0	0.0	
100	PI/2 BPSK	1	137		23.75				
100	PI/2 BPSK	1	271		23.75				
100	PI/2 BPSK	135	0		23.53				
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		25.0	0.0	
100	QPSK	1	1		24.21				
100	QPSK	1	137		24.12				
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		24.0	1.0	
100	16QAM	1	1		23.37				
100	64QAM	1	1		21.21				
100	256QAM	1	1		19.59				
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	24.10	24.09	24.02	25.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	24.05	24.09	24.11	25.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	24.07	24.09	24.11	25.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	24.09	24.08	24.07	25.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	24.02	24.11	24.11	25.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	24.09	24.04	24.03	25.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	24.10	24.04	24.10	25.0	0.0	
Channel				647168	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3795.51			
15	QPSK	1	1	24.11	24.00	24.07	25.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
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 (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		24.36		25.0	0.0	
100	PI/2 BPSK	1	137		24.25				
100	PI/2 BPSK	1	271		24.19				
100	PI/2 BPSK	135	0		24.03				
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		25.0	0.0	
100	QPSK	1	1		24.45				
100	QPSK	1	137		24.41				
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		23.35		24.0	1.0	
100	QPSK	270	0		23.35		24.0	1.0	
100	16QAM	1	1		23.61				
100	64QAM	1	1		21.80				
100	256QAM	1	1		20.21				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	24.33	24.29	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	24.28	24.31	24.31	25.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3547.52			
15	QPSK	1	1	24.29	24.27	24.31	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	24.25	24.33	24.35	25.0	0.0	

[illegible]

		5.2GHz WLAN				Ant 1-Bandwidth CIS Bandwidth				Ant 2-Bandwidth CIS Bandwidth				Ant 3-Bandwidth CIS Bandwidth				Ant 4-Bandwidth CIS Bandwidth				Ant 5-Bandwidth CIS Bandwidth				Ant 6-Bandwidth CIS Bandwidth				Ant 7-Bandwidth CIS Bandwidth				Ant 8-Bandwidth CIS Bandwidth				Ant 9-Bandwidth CIS Bandwidth				Ant 10-Bandwidth CIS Bandwidth				Ant 11-Bandwidth CIS Bandwidth				Ant 12-Bandwidth CIS Bandwidth				Ant 13-Bandwidth CIS Bandwidth				Ant 14-Bandwidth CIS Bandwidth				Ant 15-Bandwidth CIS Bandwidth				Ant 16-Bandwidth CIS Bandwidth				Ant 17-Bandwidth CIS Bandwidth				Ant 18-Bandwidth CIS Bandwidth				Ant 19-Bandwidth CIS Bandwidth				Ant 20-Bandwidth CIS Bandwidth				Ant 21-Bandwidth CIS Bandwidth				Ant 22-Bandwidth CIS Bandwidth				Ant 23-Bandwidth CIS Bandwidth				Ant 24-Bandwidth CIS Bandwidth				Ant 25-Bandwidth CIS Bandwidth				Ant 26-Bandwidth CIS Bandwidth				Ant 27-Bandwidth CIS Bandwidth				Ant 28-Bandwidth CIS Bandwidth				Ant 29-Bandwidth CIS Bandwidth				Ant 30-Bandwidth CIS Bandwidth				Ant 31-Bandwidth CIS Bandwidth				Ant 32-Bandwidth CIS Bandwidth				Ant 33-Bandwidth CIS Bandwidth				Ant 34-Bandwidth CIS Bandwidth				Ant 35-Bandwidth CIS Bandwidth				Ant 36-Bandwidth CIS Bandwidth				Ant 37-Bandwidth CIS Bandwidth				Ant 38-Bandwidth CIS Bandwidth				Ant 39-Bandwidth CIS Bandwidth				Ant 40-Bandwidth CIS Bandwidth				Ant 41-Bandwidth CIS Bandwidth				Ant 42-Bandwidth CIS Bandwidth				Ant 43-Bandwidth CIS Bandwidth				Ant 44-Bandwidth CIS Bandwidth				Ant 45-Bandwidth CIS Bandwidth				Ant 46-Bandwidth CIS Bandwidth				Ant 47-Bandwidth CIS Bandwidth				Ant 48-Bandwidth CIS Bandwidth				Ant 49-Bandwidth CIS Bandwidth				Ant 50-Bandwidth CIS Bandwidth				Ant 51-Bandwidth CIS Bandwidth				Ant 52-Bandwidth CIS Bandwidth				Ant 53-Bandwidth CIS Bandwidth				Ant 54-Bandwidth CIS Bandwidth				Ant 55-Bandwidth CIS Bandwidth				Ant 56-Bandwidth CIS Bandwidth				Ant 57-Bandwidth CIS Bandwidth				Ant 58-Bandwidth CIS Bandwidth				Ant 59-Bandwidth CIS Bandwidth				Ant 60-Bandwidth CIS Bandwidth				Ant 61-Bandwidth CIS Bandwidth				Ant 62-Bandwidth CIS Bandwidth				Ant 63-Bandwidth CIS Bandwidth				Ant 64-Bandwidth CIS Bandwidth				Ant 65-Bandwidth CIS Bandwidth				Ant 66-Bandwidth CIS Bandwidth				Ant 67-Bandwidth CIS Bandwidth				Ant 68-Bandwidth CIS Bandwidth				Ant 69-Bandwidth CIS Bandwidth				Ant 70-Bandwidth CIS Bandwidth				Ant 71-Bandwidth CIS Bandwidth				Ant 72-Bandwidth CIS Bandwidth				Ant 73-Bandwidth CIS Bandwidth				Ant 74-Bandwidth CIS Bandwidth				Ant 75-Bandwidth CIS Bandwidth				Ant 76-Bandwidth CIS Bandwidth				Ant 77-Bandwidth CIS Bandwidth				Ant 78-Bandwidth CIS Bandwidth				Ant 79-Bandwidth CIS Bandwidth				Ant 80-Bandwidth CIS Bandwidth				Ant 81-Bandwidth CIS Bandwidth				Ant 82-Bandwidth CIS Bandwidth				Ant 83-Bandwidth CIS Bandwidth				Ant 84-Bandwidth CIS Bandwidth				Ant 85-Bandwidth CIS Bandwidth				Ant 86-Bandwidth CIS Bandwidth				Ant 87-Bandwidth CIS Bandwidth				Ant 88-Bandwidth CIS Bandwidth				Ant 89-Bandwidth CIS Bandwidth				Ant 90-Bandwidth CIS Bandwidth				Ant 91-Bandwidth CIS Bandwidth				Ant 92-Bandwidth CIS Bandwidth				Ant 93-Bandwidth CIS Bandwidth				Ant 94-Bandwidth CIS Bandwidth				Ant 95-Bandwidth CIS Bandwidth				Ant 96-Bandwidth CIS Bandwidth				Ant 97-Bandwidth CIS Bandwidth				Ant 98-Bandwidth CIS Bandwidth				Ant 99-Bandwidth CIS Bandwidth				Ant 100-Bandwidth CIS Bandwidth				Ant 101-Bandwidth CIS Bandwidth				Ant 102-Bandwidth CIS Bandwidth				Ant 103-Bandwidth CIS Bandwidth				Ant 104-Bandwidth CIS Bandwidth				Ant 105-Bandwidth CIS Bandwidth				Ant 106-Bandwidth CIS Bandwidth				Ant 107-Bandwidth CIS Bandwidth				Ant 108-Bandwidth CIS Bandwidth				Ant 109-Bandwidth CIS Bandwidth				Ant 110-Bandwidth CIS Bandwidth				Ant 111-Bandwidth CIS Bandwidth				Ant 112-Bandwidth CIS Bandwidth				Ant 113-Bandwidth CIS Bandwidth				Ant 114-Bandwidth CIS Bandwidth				Ant 115-Bandwidth CIS Bandwidth				Ant 116-Bandwidth CIS Bandwidth				Ant 117-Bandwidth CIS Bandwidth				Ant 118-Bandwidth CIS Bandwidth				Ant 119-Bandwidth CIS Bandwidth				Ant 120-Bandwidth CIS Bandwidth				Ant 121-Bandwidth CIS Bandwidth				Ant 122-Bandwidth CIS Bandwidth				Ant 123-Bandwidth CIS Bandwidth				Ant 124-Bandwidth CIS Bandwidth				Ant 125-Bandwidth CIS Bandwidth				Ant 126-Bandwidth CIS Bandwidth				Ant 127-Bandwidth CIS Bandwidth				Ant 128-Bandwidth CIS Bandwidth				Ant 129-Bandwidth CIS Bandwidth				Ant 130-Bandwidth CIS Bandwidth				Ant 131-Bandwidth CIS Bandwidth				Ant 132-Bandwidth CIS Bandwidth				Ant 133-Bandwidth CIS Bandwidth				Ant 134-Bandwidth CIS Bandwidth				Ant 135-Bandwidth CIS Bandwidth				Ant 136-Bandwidth CIS Bandwidth				Ant 137-Bandwidth CIS Bandwidth				Ant 138-Bandwidth CIS Bandwidth				Ant 139-Bandwidth CIS Bandwidth				Ant 140-Bandwidth CIS Bandwidth				Ant 141-Bandwidth CIS Bandwidth				Ant 142-Bandwidth CIS Bandwidth				Ant 143-Bandwidth CIS Bandwidth				Ant 144-Bandwidth CIS Bandwidth				Ant 145-Bandwidth CIS Bandwidth				Ant 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WiFi&Bluetooth Power

2.4GHz WLAN				Ant 4 Extensity non DBS Simulation		Ant 5 Extensity non DBS Simulation		Ant 4+5 Extensity non DBS Simulation		Ant 4 Extensity DBS Simulation		Ant 5 Extensity DBS Simulation		Ant 4+5 Extensity DBS Simulation		Daily Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	
802.11a 80Mbps	1	2412	17.69	19.00	17.08	18.00	20.48	22.00	18.63	18.00	18.08	15.00	17.41	19.00		100
	6	2437	17.60	19.00	17.00	18.00	20.30	22.00	18.00	18.00	18.12	15.00	17.29	19.00		
	11	2462	17.00	17.00		17.10	20.30	22.00	18.00	18.00	18.17	15.00	17.00	19.00		
	1	2412		18.00		18.00		22.00		18.00		15.00		19.00		
802.11g 80Mbps	6	2437		18.00		18.00		22.00		18.00		15.00		19.00		99.31
	11	2462		18.00		18.00		22.00		18.00		15.00		19.00		
	1	2412		19.00		19.00		22.00		18.00		15.00		19.00		
	6	2437		19.00		19.00		22.00		18.00		15.00		19.00		
802.11n HT40 MCS0	11	2462		19.00		19.00		22.00		18.00		15.00		19.00		100
	7	2412		19.00		19.00		22.00		18.00		15.00		19.00		
	8	2437		19.00		19.00		22.00		18.00		15.00		19.00		
	11	2462		19.00		19.00		22.00		18.00		15.00		19.00		
802.11n HT40 MCS9	11	2462	Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required	100
	7	2412		19.00		19.00		22.00		18.00		15.00		19.00		
	8	2437		19.00		19.00		22.00		18.00		15.00		19.00		
	11	2462		19.00		19.00		22.00		18.00		15.00		19.00		
802.11n HE20 MCS0	6	2437		18.00		18.00		22.00		18.00		15.00		19.00		100
	11	2462		18.00		18.00		22.00		18.00		15.00		19.00		
	3	2402		18.00		18.00		22.00		18.00		15.00		19.00		
	8	2437		18.00		18.00		22.00		18.00		15.00		19.00		
802.11n HE40 MCS0	8	2437		18.00		18.00		22.00		18.00		15.00		19.00		100
	9	2462		19.00		19.00		22.00		18.00		15.00		19.00		

5.2GHz WLAN			Ant 4 Extensity DBS only		Ant 4 Extensity DBS only		Ant 4+5 Extensity DBS only		Ant 5 Extensity non DBS Simulation		Ant 4 Extensity non DBS Simulation		Ant 5 Extensity DBS Simulation		Ant 4+5 Extensity DBS Simulation		Daily Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit		
802.11a 80Mbps	36	5180		19.00		19.00		22.00		19.00		19.00		22.00		18.00	19.00	99.92
	40	5200		20.00		19.00		23.00		19.00		19.00		22.00		18.00	19.00	
	44	5220		20.00		19.00		23.00		19.00		19.00		22.00		18.00	19.00	
	48	5240	Not Required		20.00		19.00		23.00		19.00		19.00		22.00		18.00	
802.11n HT20 MCS0	36	5180		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	100
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	44	5220		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	48	5240		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
802.11n HT40 MCS0	36	5180	17.45	18.00	18.94	18.00	20.21	22.00	17.46	19.00	18.94	18.00	20.21	22.00	Not Required	18.00	19.00	100
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	44	5220		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	48	5240		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
802.11ac VHT80 MCS0	44	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	100
	48	5240		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	36	5180		19.00		18.00		22.00		18.00		18.00		22.00		18.00	19.00	
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
802.11ac VHT80 MCS9	44	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	100
	48	5240		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	36	5180		19.00		18.00		22.00		18.00		18.00		22.00		18.00	19.00	
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
802.11n HE40 MCS0	36	5180		19.00		18.00		22.00		18.00		18.00		22.00		18.00	19.00	100
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	42	5210		18.00		18.00		21.00		18.00		18.00		21.00		18.00	19.00	
	36	5180	Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required		Not Required	
802.11n HE80 MCS0	36	5180		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	100
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	44	5240		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	48	5280		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
802.11n HE80 MCS9	36	5180		19.00		18.00		21.00		18.00		18.00		21.00		18.00	19.00	100
	40	5200		20.00		20.00		23.00		19.00		19.00		22.00		18.00	19.00	
	42	5210	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	19.00	
	48	5280	18.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	

5.2GHz WLAN			Ant 4 Extensity DBS only		Ant 4 Extensity DBS only		Ant 4+5 Extensity DBS only		Ant 5 Extensity non DBS Simulation		Ant 4 Extensity non DBS Simulation		Ant 5 Extensity DBS Simulation		Ant 4+5 Extensity DBS Simulation		Daily Cycle %			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit	Average power (dBm)	Trans-Up Limit				
802.11a 80Mbps	52	5280		19.00		19.00		22.00		19.00		17.00		21.00		15.00	14.00	99.92		
	56	5300		20.00		19.00		23.00		18.00		17.00		21.00		15.00	14.00			
	60	5320		20.00		19.00		23.00		18.00		17.00		21.00		15.00	14.00			
	64	5330	Not Required		20.00		19.00	Not Required		23.00		18.00		17.00		21.00	15.00	14.00		
802.11n HT20 MCS0	52	5280		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00	100		
	56	5300		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	60	5320		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	64	5330		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
802.11n HT40 MCS0	54	5270	18.00	18.00	18.00	18.00	21.07	Not Required		23.00	Not Required		Not Required		21.00	19.00	14.00	100		
	62	5310	18.00	20.00	19.00	20.00	21.00	23.00	18.00	17.00	21.00	19.00	14.00	15.00	14.00	14.00	14.00			
	52	5280		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	56	5300		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
802.11ac VHT80 MCS0	56	5300		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00	100		
	60	5320		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	54	5270		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	52	5270		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
802.11ac VHT80 MCS9	56	5300		19.00		19.00		22.00	16.37	18.00	15.81	17.00	18.13	21.00	13.37	15.00	12.86	14.00	16.08	100
	60	5320		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	54	5270	Not Required	19.00	Not Required	18.00	Not Required	21.00	18.00		17.00		21.00	19.00	15.00	14.00	14.00	16.00	100	
802.11ac VHT80 MCS9	52	5280		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00	100		
	56	5300		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	60	5320		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	64	5330		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
802.11ac VHT80 MCS9	54	5270		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00	100		
	62	5310		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	52	5280		19.00		19.00		22.00		18.00		17.00		21.00		15.00	14.00			
	56	5300		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
802.11ac VHT80 MCS9	54	5270		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00	100		
	62	5310		20.00		20.00		23.00		18.00		17.00		21.00		15.00	14.00			
	52	5280		19.00		19.00		22.00		18.00		17.00		21.00		15.00	14.00	10.00	100	

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