



n2_Ant1										
RF BNC	Modulation	RF Size	RF Offset	Power Type (mW)	Power Mode (dBm)	Power High (mW)	Power Low (mW)	Turn-up time (min)	Margin (dB)	
Channel										
30	PFD BPSK	1	1	24.94	24.85	24.92	24.88			
Transmitting BNC										
30	PFD BPSK	1	0.5	24.94	24.85	24.75	24.9	24.0	0.0	
30	PFD BPSK	1	100	24.94	24.85	24.75	24.9	24.0	0.0	
30	PFD BPSK	0.5	0	24.96	24.85	24.75	24.9	23.5	0.0	
30	PFD BPSK	0.5	24	24.92	24.84	24.75	24.9	23.0	0.0	
30	PFD BPSK	0.5	0.5	24.92	24.84	24.75	24.9	23.0	0.0	
30	PFD BPSK	100	0	24.92	24.84	24.75	24.9	23.0	0.0	
30	CPFSK	1	1	24.92	24.82	24.88	24.88	24.0	0.0	
30	CPFSK	1	33	24.92	24.82	24.88	24.88	24.0	0.0	
30	CPFSK	1	104	24.94	24.85	24.8	24.9	24.0	0.0	
30	CPFSK	0.5	0	24.76	22.72	23.75	24.0	23.0	1.0	
30	CPFSK	0.5	24	24.76	22.81	23.75	24.0	23.0	0.0	
30	CPFSK	100	0	24.76	22.81	23.75	24.0	23.0	1.0	
30	SSBAM	1	1	24.97	22.85	23.25	24.0	23.0	1.0	
30	SSBAM	1	1	24.97	22.85	23.25	24.0	23.0	1.0	
Channel										
Transmitting BNC										
16	PFD BPSK	1	1	24.83	24.81	24.83	24.83	23.0	0.0	
Channel										
Transmitting BNC										
16	PFD BPSK	1	1	24.83	24.81	24.83	24.83	23.0	0.0	
Channel										
Transmitting BNC										
1	PFD BPSK	1	1	24.94	24.87	24.85	24.9	24.0	0.0	

n2_Ant2										
RF BNC	Modulation	RF Size	RF Offset	Power Type (mW)	Power Mode (dBm)	Power High (mW)	Power Low (mW)	Turn-up time (min)	Margin (dB)	
Channel										
30	PFD BPSK	1	1	24.94	24.85	24.92	24.88			
Transmitting BNC										
30	PFD BPSK	1	0.5	24.94	24.85	24.75	24.9	24.0	0.0	
30	PFD BPSK	1	100	24.94	24.85	24.75	24.9	24.0	0.0	
30	PFD BPSK	0.5	0	24.96	24.85	24.75	24.9	23.5	0.0	
30	PFD BPSK	0.5	24	24.92	24.84	24.75	24.9	23.0	0.0	
30	PFD BPSK	0.5	0.5	24.92	24.84	24.75	24.9	23.0	0.0	
30	PFD BPSK	100	0	24.92	24.84	24.75	24.9	23.0	0.0	
30	CPFSK	1	1	24.92	24.82	24.88	24.88	24.0	0.0	
30	CPFSK	1	33	24.92	24.82	24.88	24.88	24.0	0.0	
30	CPFSK	1	104	24.94	24.85	24.8	24.9	24.0	0.0	
30	CPFSK	0.5	0	24.76	22.72	23.75	24.0	23.0	1.0	
30	CPFSK	0.5	24	24.76	22.81	23.75	24.0	23.0	1.0	
30	CPFSK	100	0	24.76	22.81	23.75	24.0	23.0	1.0	
30	SSBAM	1	1	24.97	22.85	23.25	24.0	23.0	1.0	
30	SSBAM	1	1	24.97	22.85	23.25	24.0	23.0	1.0	
Channel										
Transmitting BNC										
16	PFD BPSK	1	1	24.83	24.81	24.83	24.83	23.0	0.0	
Channel										
Transmitting BNC										
16	PFD BPSK	1	1	24.83	24.81	24.83	24.83	23.0	0.0	
Channel										
Transmitting BNC										
1	PFD BPSK	1	1	24.94	24.87	24.85	24.9	24.0	0.0	

n2_Ant7										
RF BNC	Modulation	RF Size	RF Offset	Power Type (mW)	Power Mode (dBm)	Power High (mW)	Power Low (mW)	Turn-up time (min)	Margin (dB)	
Channel										
30	PFD BPSK	1	1	24.94	24.85	24.92	24.88			
Transmitting BNC										
30	PFD BPSK	1	33	24.94	24.85	24.75	24.9	23.5	0.0	
30	PFD BPSK	1	104	24.94	24.85	24.75	24.9	23.5	0.0	
30	PFD BPSK	0.5	0	24.96	24.85	24.75	24.9	23.0	0.0	
30	PFD BPSK	0.5	24	24.92	24.84	24.75	24.9	22.5	0.0	
30	PFD BPSK	0.5	0.5	24.92	24.84	24.75	24.9	22.5	0.0	
30	PFD BPSK	100	0	24.92	24.84	24.75	24.9	22.5	0.0	
30	CPFSK	1	1	24.92	24.82	24.88	24.88	24.0	0.0	
30	CPFSK	1	33	24.92	24.82	24.88	24.88	24.0	0.0	
30	CPFSK	1	104	24.94	24.85	24.8	24.9	24.0	0.0	
30	CPFSK	0.5	0	24.76	22.72	23.75	24.0	23.0	1.0	
30	CPFSK	0.5	24	24.76	22.81	23.75	24.0	23.0	1.0	
30	CPFSK	100	0	24.76	22.81	23.75	24.0	23.0	1.0	
30	SSBAM	1	1	24.97	22.85	23.25	24.0	23.0	1.0	
30	SSBAM	1	1	24.97	22.85	23.25	24.0	23.0	1.0	
Channel										
Transmitting BNC										
16	PFD BPSK	1	1	24.83	24.81	24.83	24.83	23.0	0.0	
Channel										
Transmitting BNC										
16	PFD BPSK	1	1	24.83	24.81	24.83	24.83	23.0	0.0	
Channel										
Transmitting BNC										
1	PFD BPSK	1	1	24.94	24.87	24.85	24.9	24.0	0.0	



n5_Ant0											
SBF [MHz]	Modulation	RB Size	RB Offset	Power Low (mW)	Power Max (mW)	Power High (mW)	Time-up time (min)	Aggr. (dB)			
			Channel	Power Margin	Power Margin	Power Margin					
Channel											
30	PRO-OFDM	1	1	24.43	24.43	24.43					
Frequency Bins											
30	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	1	104	24.43	24.43	24.43					
30	PRO-OFDM	80	0	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	96	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	160	0	24.43	24.43	24.43	24.0	0.0			
30	OFDM	1	1	24.43	24.43	24.43					
30	OFDM	1	104	24.43	24.43	24.43					
30	OFDM	80	0	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	96	24.43	24.43	24.43	24.0	0.0			
30	NOMA	1	1	24.43	24.43	24.43					
30	NOMA	1	1	24.43	24.43	24.43					
Channel											
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
Channel											
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			

n5_Ant2											
SBF [MHz]	Modulation	RB Size	RB Offset	Power Low (mW)	Power Max (mW)	Power High (mW)	Time-up time (min)	Aggr. (dB)			
			Channel	Power Margin	Power Margin	Power Margin					
Channel											
Frequency Bins											
30	PRO-OFDM	1	1	24.43	24.43	24.43					
30	PRO-OFDM	1	104	24.43	24.43	24.43					
30	PRO-OFDM	80	0	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	96	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	160	0	24.43	24.43	24.43	24.0	0.0			
30	OFDM	1	1	24.43	24.43	24.43					
30	OFDM	1	104	24.43	24.43	24.43					
30	OFDM	80	0	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	96	24.43	24.43	24.43	24.0	0.0			
30	NOMA	1	1	24.43	24.43	24.43					
30	NOMA	1	1	24.43	24.43	24.43					
Channel											
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
Channel											
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			

n7_Ant1											
SBF [MHz]	Modulation	RB Size	RB Offset	Power Low (mW)	Power Max (mW)	Power High (mW)	Time-up time (min)	Aggr. (dB)			
			Channel	Power Margin	Power Margin	Power Margin					
Channel											
Frequency Bins											
30	PRO-OFDM	1	1	24.43	24.43	24.43					
30	PRO-OFDM	1	104	24.43	24.43	24.43					
30	PRO-OFDM	80	0	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	80	96	24.43	24.43	24.43	24.0	0.0			
30	PRO-OFDM	160	0	24.43	24.43	24.43	24.0	0.0			
30	OFDM	1	1	24.43	24.43	24.43					
30	OFDM	1	104	24.43	24.43	24.43					
30	OFDM	80	0	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	16	24.43	24.43	24.43	24.0	0.0			
30	OFDM	80	96	24.43	24.43	24.43	24.0	0.0			
30	NOMA	1	1	24.43	24.43	24.43					
30	NOMA	1	1	24.43	24.43	24.43					
Channel											
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			
Channel											
Frequency Bins											
15	PRO-OFDM	1	1	24.43	24.43	24.43	24.0	0.0			



n30_Ant1									
DIV (MHz)	Modulation	RS Size	RS Offset	Power Level (mW)	Power Spectral Density (mW/Hz)	Power Spectral Density (dBm/Hz)	Time-up time (min)	MFR (dB)	
Channel									
30	PPM-SSSK	1	1	21.86	21.86	21.86			
30	PPM-SSSK	1	26	21.86	21.86	21.86	23.5	0.0	
30	PPM-SSSK	1	31	21.86	21.86	21.86			
30	PPM-SSSK	25	14	21.86	21.86	21.86	23.5	0.0	
30	PPM-SSSK	25	27	21.86	21.86	21.86			
30	PPM-SSSK	50	1	21.86	21.86	21.86	23.5	0.0	
30	OFDM	1	1	23.07	23.07	23.07			
30	OFDM	1	26	23.07	23.07	23.07	23.5	0.0	
30	OFDM	1	31	23.07	23.07	23.07			
30	OFDM	25	14	23.07	23.07	23.07	23.5	1.0	
30	OFDM	25	27	23.07	23.07	23.07			
30	OFDM	50	1	23.07	23.07	23.07	23.5	1.0	
30	SSB-DM	1	1	23.07	23.07	23.07			
30	SSB-DM	1	26	23.07	23.07	23.07	23.5	1.0	
30	SSB-DM	1	31	23.07	23.07	23.07			
Channel									
30	PPM-SSSK	1	1	21.86	21.86	21.86	23.5	0.0	

n66_Ant1									
DIV (MHz)	Modulation	RS Size	RS Offset	Power Level (mW)	Power Spectral Density (mW/Hz)	Power Spectral Density (dBm/Hz)	Time-up time (min)	MFR (dB)	
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09			
30	PPM-SSSK	1	30	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	1	35	24.09	24.09	24.09			
30	PPM-SSSK	30	15	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	30	30	24.09	24.09	24.09			
30	PPM-SSSK	60	15	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	60	30	24.09	24.09	24.09			
30	PPM-SSSK	120	15	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	120	30	24.09	24.09	24.09			
30	OFDM	1	1	24.09	24.09	24.09			
30	OFDM	1	30	24.09	24.09	24.09	25.0	0.0	
30	OFDM	1	35	24.09	24.09	24.09			
30	OFDM	30	15	24.09	24.09	24.09	25.0	1.0	
30	OFDM	30	30	24.09	24.09	24.09			
30	OFDM	60	15	24.09	24.09	24.09	25.0	1.0	
30	OFDM	60	30	24.09	24.09	24.09			
30	SSB-DM	1	1	24.09	24.09	24.09			
30	SSB-DM	1	30	24.09	24.09	24.09	25.0	1.0	
30	SSB-DM	1	35	24.09	24.09	24.09			
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09	25.0	0.0	
Frequency Mask									
30	PPM-SSSK	1	1	24.09	24.09	24.09			
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09	25.0	0.0	
Frequency Mask									
30	PPM-SSSK	1	1	24.09	24.09	24.09			
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09	25.0	0.0	
Frequency Mask									
30	PPM-SSSK	1	1	24.09	24.09	24.09			

n66_Ant2									
DIV (MHz)	Modulation	RS Size	RS Offset	Power Level (mW)	Power Spectral Density (mW/Hz)	Power Spectral Density (dBm/Hz)	Time-up time (min)	MFR (dB)	
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09			
30	PPM-SSSK	1	30	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	1	35	24.09	24.09	24.09			
30	PPM-SSSK	30	15	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	30	30	24.09	24.09	24.09			
30	PPM-SSSK	60	15	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	60	30	24.09	24.09	24.09			
30	PPM-SSSK	120	15	24.09	24.09	24.09	25.0	0.0	
30	PPM-SSSK	120	30	24.09	24.09	24.09			
30	OFDM	1	1	24.09	24.09	24.09			
30	OFDM	1	30	24.09	24.09	24.09	25.0	0.0	
30	OFDM	1	35	24.09	24.09	24.09			
30	OFDM	30	15	24.09	24.09	24.09	25.0	1.0	
30	OFDM	30	30	24.09	24.09	24.09			
30	OFDM	60	15	24.09	24.09	24.09	25.0	1.0	
30	OFDM	60	30	24.09	24.09	24.09			
30	SSB-DM	1	1	24.09	24.09	24.09			
30	SSB-DM	1	30	24.09	24.09	24.09	25.0	1.0	
30	SSB-DM	1	35	24.09	24.09	24.09			
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09	25.0	0.0	
Frequency Mask									
30	PPM-SSSK	1	1	24.09	24.09	24.09			
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09	25.0	0.0	
Frequency Mask									
30	PPM-SSSK	1	1	24.09	24.09	24.09			
Channel									
30	PPM-SSSK	1	1	24.09	24.09	24.09	25.0	0.0	
Frequency Mask									
30	PPM-SSSK	1	1	24.09	24.09	24.09			



n66_Ant7										
DP Part#	Modulation	RIS Grn	RIS Other	Power Low Ch. (dBm)	Power Max Ch. (dBm)	Power High Ch. (dBm)	Time-up time (min)	MFR (dB)		
Channel										
30	PFD-BPSK	1	1	24.00	24.14	24.27				
Frequency MHz										
30	PFD-BPSK	1	1	24.10	24.24	24.37	24.0	0.0		
30	PFD-BPSK	1	104	24.10	24.24	24.37				
30	PFD-BPSK	80	0	24.08	24.22	24.36	23.5	0.0		
30	PFD-BPSK	80	40	24.11	24.25	24.39	23.5	0.0		
30	PFD-BPSK	80	80	24.04	24.18	24.32	23.0	0.0		
30	PFD-BPSK	160	0	24.04	24.18	24.32	23.0	0.0		
CPFSK										
30	CPFSK	1	1	24.15	24.29	24.43				
30	CPFSK	1	33	24.11	24.25	24.39	23.5	0.0		
30	CPFSK	1	104	24.11	24.25	24.39				
30	CPFSK	80	0	24.13	24.27	24.41	23.5	1.0		
30	CPFSK	80	40	24.16	24.30	24.44	23.5	1.0		
30	CPFSK	80	80	24.16	24.30	24.44	23.5	1.0		
30	CPFSK	160	0	24.16	24.30	24.44	23.5	1.0		
30	SSB-W	1	1	24.09	24.23	24.37				
30	SSB-W	1	1	24.18	24.32	24.46				
Channel										
36	PFD-BPSK	1	1	24.10	24.24	24.38	Time-up time (min)	MFR (dB)		
Frequency MHz										
36	PFD-BPSK	1	1	24.12	24.26	24.40				
Channel										
15	PFD-BPSK	1	1	24.10	24.24	24.38	Time-up time (min)	MFR (dB)		
Frequency MHz										
15	PFD-BPSK	1	1	24.12	24.26	24.40				
Channel										
1	PFD-BPSK	1	1	24.44	24.58	24.72	Time-up time (min)	MFR (dB)		

n71_Ant0										
DP Part#	Modulation	RIS Grn	RIS Other	Power Low Ch. (dBm)	Power Max Ch. (dBm)	Power High Ch. (dBm)	Time-up time (min)	MFR (dB)		
Channel										
30	PFD-BPSK	1	1	24.03	24.17	24.30				
Frequency MHz										
30	PFD-BPSK	1	33	24.00	24.14	24.27	24.0	0.0		
30	PFD-BPSK	1	104	24.00	24.14	24.27				
30	PFD-BPSK	80	0	24.01	24.15	24.28	23.5	0.0		
30	PFD-BPSK	80	36	24.00	24.14	24.27	23.0	0.0		
30	PFD-BPSK	80	72	24.01	24.15	24.28	23.0	0.0		
30	PFD-BPSK	160	0	24.07	24.21	24.34	24.0	0.0		
CPFSK										
30	CPFSK	1	1	24.10	24.24	24.37				
30	CPFSK	1	33	24.03	24.17	24.30	24.0	0.0		
30	CPFSK	1	104	24.04	24.18	24.31				
30	CPFSK	80	0	24.07	24.21	24.34	23.5	1.0		
30	CPFSK	80	36	24.00	24.14	24.27	23.0	1.0		
30	CPFSK	80	72	24.01	24.15	24.28	23.0	1.0		
30	SSB-W	1	1	24.10	24.24	24.37				
30	SSB-W	1	1	24.18	24.32	24.46				
Channel										
15	PFD-BPSK	1	1	24.44	24.58	24.72	Time-up time (min)	MFR (dB)		
Frequency MHz										
15	PFD-BPSK	1	1	24.46	24.60	24.74				
Channel										
1	PFD-BPSK	1	1	24.82	24.96	25.10	Time-up time (min)	MFR (dB)		
Frequency MHz										
1	PFD-BPSK	1	1	24.84	24.98	25.12				

n71_Ant2										
DP Part#	Modulation	RIS Grn	RIS Other	Power Low Ch. (dBm)	Power Max Ch. (dBm)	Power High Ch. (dBm)	Time-up time (min)	MFR (dB)		
Channel										
30	PFD-BPSK	1	1	24.03	24.17	24.30				
Frequency MHz										
30	PFD-BPSK	1	33	24.00	24.14	24.27	24.0	0.0		
30	PFD-BPSK	1	104	24.00	24.14	24.27				
30	PFD-BPSK	80	0	24.01	24.15	24.28	23.5	0.0		
30	PFD-BPSK	80	36	24.00	24.14	24.27	23.0	0.0		
30	PFD-BPSK	80	72	24.01	24.15	24.28	23.0	0.0		
30	PFD-BPSK	160	0	24.07	24.21	24.34	24.0	0.0		
CPFSK										
30	CPFSK	1	1	24.10	24.24	24.37				
30	CPFSK	1	33	24.03	24.17	24.30	24.0	0.0		
30	CPFSK	1	104	24.04	24.18	24.31				
30	CPFSK	80	0	24.07	24.21	24.34	23.5	1.0		
30	CPFSK	80	36	24.00	24.14	24.27	23.0	1.0		
30	CPFSK	80	72	24.01	24.15	24.28	23.0	1.0		
30	SSB-W	1	1	24.10	24.24	24.37				
30	SSB-W	1	1	24.18	24.32	24.46				
Channel										
15	PFD-BPSK	1	1	24.44	24.58	24.72	Time-up time (min)	MFR (dB)		
Frequency MHz										
15	PFD-BPSK	1	1	24.46	24.60	24.74				
Channel										
1	PFD-BPSK	1	1	24.82	24.96	25.10	Time-up time (min)	MFR (dB)		
Frequency MHz										
1	PFD-BPSK	1	1	24.84	24.98	25.12				



n41_FCC_Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50900	51898	52896			
100	P12 BPSK	1	1	24.82	24.85	24.79			
100	P12 BPSK	1	137	24.77	24.79	24.80	26.0	0.0	
100	P12 BPSK	1	271	24.76	24.78	24.75			
100	P12 BPSK	138	0	24.03	24.14	24.11	26.5	0.5	
100	P12 BPSK	138	69	24.70	24.71	24.69	26.0	0.0	
100	P12 BPSK	138	138	24.22	24.24	24.19	26.5	0.5	
100	P12 BPSK	270	0	24.12	24.18	24.14			
100	QPSK	1	1	24.81	24.83	24.76	19.0		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0	
100	QPSK	1	271	24.71	24.81	24.80			
100	QPSK	138	0	24.74	24.76	24.69			
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0	
100	QPSK	138	138	24.72	24.76	24.74	26.0	1.0	
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0	
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0	
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5	
100	16QAM	1	1	19.90	20.03	19.94	21.5	4.5	
Channel									
Frequency (MHz)				50800	51898	52896	Tune-up limit (dBm)	MPR (dB)	
50	P12 BPSK	1	1	24.41	24.42	24.41	25.0	0.0	
Channel									
Frequency (MHz)				50704	51898	52998	Tune-up limit (dBm)	MPR (dB)	
80	P12 BPSK	1	1	24.69	24.77	24.66	26.0	0.0	
Channel									
Frequency (MHz)				50602	51898	53100	Tune-up limit (dBm)	MPR (dB)	
70	P12 BPSK	1	1	24.03	24.79	24.14	26.0	0.0	
Channel									
Frequency (MHz)				50500	51898	53196	Tune-up limit (dBm)	MPR (dB)	
60	P12 BPSK	1	1	24.65	24.77	24.69	26.0	0.0	
Channel									
Frequency (MHz)				50404	51898	53298	Tune-up limit (dBm)	MPR (dB)	
50	P12 BPSK	1	1	24.85	24.76	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50302	51898	53400	Tune-up limit (dBm)	MPR (dB)	
40	P12 BPSK	1	1	24.64	24.74	24.63	26.0	0.0	
Channel									
Frequency (MHz)				50200	51898	53496	Tune-up limit (dBm)	MPR (dB)	
30	P12 BPSK	1	1	24.71	24.75	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50104	51898	53598	Tune-up limit (dBm)	MPR (dB)	
20	P12 BPSK	1	1	24.68	24.77	24.64	26.0	0.0	

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				50900	51898	52896			
100	P12 BPSK	1	1	24.82	24.85	24.79			
100	P12 BPSK	1	137	24.77	24.79	24.80	26.0	0.0	
100	P12 BPSK	1	271	24.76	24.78	24.75			
100	P12 BPSK	138	0	24.03	24.14	24.11	26.5	0.5	
100	P12 BPSK	138	69	24.70	24.71	24.69	26.0	0.0	
100	P12 BPSK	138	138	24.22	24.24	24.19	26.5	0.5	
100	P12 BPSK	270	0	24.12	24.18	24.14			
100	QPSK	1	1	24.81	24.83	24.76	19.0		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0	
100	QPSK	1	271	24.71	24.81	24.80			
100	QPSK	138	0	24.74	24.76	24.69			
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0	
100	QPSK	138	138	24.72	24.76	24.74	26.0	1.0	
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0	
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0	
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5	
100	16QAM	1	1	19.90	20.03	19.94	21.5	4.5	
Channel									
Frequency (MHz)				50800	51898	52896	Tune-up limit (dBm)	MPR (dB)	
90	P12 BPSK	1	1	24.67	24.75	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50704	51898	52998	Tune-up limit (dBm)	MPR (dB)	
80	P12 BPSK	1	1	24.69	24.77	24.66	26.0	0.0	
Channel									
Frequency (MHz)				50602	51898	53100	Tune-up limit (dBm)	MPR (dB)	
70	P12 BPSK	1	1	24.03	24.79	24.14	26.0	0.0	
Channel									
Frequency (MHz)				50500	51898	53196	Tune-up limit (dBm)	MPR (dB)	
60	P12 BPSK	1	1	24.65	24.77	24.69	26.0	0.0	
Channel									
Frequency (MHz)				50404	51898	53298	Tune-up limit (dBm)	MPR (dB)	
50	P12 BPSK	1	1	24.85	24.76	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50302	51898	53400	Tune-up limit (dBm)	MPR (dB)	
40	P12 BPSK	1	1	24.64	24.74	24.63	26.0	0.0	
Channel									
Frequency (MHz)				50200	51898	53496	Tune-up limit (dBm)	MPR (dB)	
30	P12 BPSK	1	1	24.71	24.75	24.62	26.0	0.0	
Channel									
Frequency (MHz)				50104	51898	53598	Tune-up limit (dBm)	MPR (dB)	
20	P12 BPSK	1	1	24.68	24.77	24.64	26.0	0.0	



Par270 n77_FCC_Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel			Frequency (MHz)	648000	650000	652000			
100	P12 BPSK	1	1	24.21	24.32	24.29	26.0	0.0	
100	P12 BPSK	1	137	24.14	24.24	24.20			
100	P12 BPSK	1	271	24.16	24.22	24.18			
100	P12 BPSK	135	0	23.89	23.77	23.74			
100	P12 BPSK	135	69	24.12	24.14	24.01			
100	P12 BPSK	135	138	23.57	23.57	23.57			
100	P12 BPSK	270	0	23.70	23.72	23.66			
100	QPSK	1	1	24.33	24.36	24.30			
100	QPSK	1	137	24.17	24.23	24.15			
100	QPSK	1	271	24.10	24.15	24.06			
100	QPSK	135	0	24.12	24.23	24.22			
100	QPSK	135	69	24.20	24.25	24.20			
100	QPSK	135	138	24.11	24.16	24.09			
100	QPSK	270	0	23.27	23.28	23.24			
100	16QAM	1	1	23.27	23.38	23.23			
100	64QAM	1	1	21.81	21.90	21.83			
100	256QAM	1	1	19.95	20.06	19.99			
	Channel			648334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3743.01	3743.00	3743.09	25.0	0.0	
80	P12 BPSK	1	1	24.12	24.18	24.06	25.0	0.0	
	Channel			648668	650000	653332	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3743.02	3743.00	3743.08	25.0	0.0	
60	P12 BPSK	1	1	24.09	24.15	24.07	25.0	0.0	
	Channel			648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3729	3743	3743	25.0	0.0	
40	P12 BPSK	1	1	24.11	24.16	24.11	25.0	0.0	
	Channel			647668	650000	654332	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3718.02	3743.00	3743.08	25.0	0.0	
30	P12 BPSK	1	1	24.09	24.16	24.10	25.0	0.0	
	Channel			647334	650000	654666	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3718.01	3743.00	3743.09	25.0	0.0	
20	P12 BPSK	1	1	24.09	24.17	24.12	26.0	0.0	

Par27Q n77_FCC_Ant8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel			Frequency (MHz)	630000	633332	636996			
100	P12 BPSK	1	1	24.42			26.0	0.0	
100	P12 BPSK	1	137	24.41					
100	P12 BPSK	1	271	24.45					
100	P12 BPSK	135	0	23.93					
100	P12 BPSK	135	69	24.31					
100	P12 BPSK	135	138	24.15					
100	P12 BPSK	270	0	24.01					
100	QPSK	1	1	24.33					
100	QPSK	1	137	24.28					
100	QPSK	1	271	24.32					
100	QPSK	135	0	24.14					
100	QPSK	135	69	24.39					
100	QPSK	135	138	24.26					
100	QPSK	270	0	23.62					
100	16QAM	1	1	23.56					
100	64QAM	1	1	21.81					
100	256QAM	1	1	19.83					
	Channel			630000	633332	636996	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3492.02	3499.98	3510	25.0	0.0	
80	P12 BPSK	1	1	24.29	24.29	24.19	25.0	0.0	
	Channel			630000	633332	636996	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3492	3499.98	3510.92	25.0	0.0	
60	P12 BPSK	1	1	24.53	24.31	24.19	25.0	0.0	
	Channel			631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3470.01	3499.98	3520.98	25.0	0.0	
40	P12 BPSK	1	1	24.29	24.24	24.29	25.0	0.0	
	Channel			631000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3465	3499.98	3534.99	25.0	0.0	
30	P12 BPSK	1	1	24.21	24.23	24.21	25.0	0.0	
	Channel			630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3469.02	3499.98	3544	25.0	0.0	
20	P12 BPSK	1	1	24.21	24.23	24.27	26.0	0.0	



Par270 n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				656000	666000	666000		
100	PI2 BPSK	1	1	24.21	24.32	24.29		
100	PI2 BPSK	1	197	24.14	24.24	24.26	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	135	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.57	23.57	23.57	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.38	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.57	23.58	23.54	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	16QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel								
Frequency (MHz)				649334	656000	662666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.02	3470	3092.99	(dBm)	
80	PI2 BPSK	1	1	24.12	24.18	24.05	26.0	0.0
Channel								
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.02	3470	3092.98	(dBm)	
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740	3470	3092	(dBm)	
40	PI2 BPSK	1	1	24.11	24.15	24.11	26.0	0.0
Channel								
Frequency (MHz)				647668	656000	664332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.02	3469.50	3092.98	(dBm)	
30	PI2 BPSK	1	1	24.10	24.15	24.10	26.0	0.0
Channel								
Frequency (MHz)				647334	656000	664666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3469	3092.99	(dBm)	
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par27Q n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332		649998		
100	PI2 BPSK	1	1	24.42		24.42		
100	PI2 BPSK	1	197	24.41		24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45		24.45		
100	PI2 BPSK	135	0	23.93		23.93	25.5	0.5
100	PI2 BPSK	135	69	24.31		24.31	26.0	0.0
100	PI2 BPSK	135	138	24.15		24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01		24.01		
100	QPSK	1	1	24.53		24.53		
100	QPSK	1	137	24.28		24.28	26.0	0.0
100	QPSK	1	271	24.32		24.32		
100	QPSK	135	0	24.14		24.14		
100	QPSK	135	69	24.39		24.39	26.0	0.0
100	QPSK	135	138	24.28		24.28		
100	QPSK	270	0	23.62		23.62	25.0	1.0
100	16QAM	1	1	23.96		23.96	25.0	1.0
100	16QAM	1	1	21.81		21.81	23.5	2.5
100	256QAM	1	1	19.83		19.83	21.5	4.5
Channel								
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3499.50	3510	(dBm)	
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490	3499.50	3519.99	(dBm)	
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3499.50	3529.98	(dBm)	
40	PI2 BPSK	1	1	24.23	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460	3499.50	3539.99	(dBm)	
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3450.02	3499.50	3549	(dBm)	
20	PI2 BPSK	1	1	24.21	24.23	24.22	26.0	0.0



n2_Ant1						
ID (PNS)	Atividade	MS-Sis	MS-Oficia	Tempo (s)	Tempo (m)	Tempo (h)
Atividade				Tempo (s)	Tempo (m)	Tempo (h)
00	Atividade	1	1	25,14	25,14	25,14
00	Atividade	2	2	50,28	50,28	50,28
00	Atividade	3	3	75,42	75,42	75,42
00	Atividade	4	4	100,56	100,56	100,56
00	Atividade	5	5	125,70	125,70	125,70
00	Atividade	6	6	150,84	150,84	150,84
00	Atividade	7	7	175,98	175,98	175,98
00	Atividade	8	8	201,12	201,12	201,12
00	Atividade	9	9	226,26	226,26	226,26
00	Atividade	10	10	251,40	251,40	251,40
Resumo				Total (s)	Total (m)	Total (h)
00	Atividade	10	10	251,40	251,40	251,40
Totais				251,40	251,40	251,40
Máximo				251,40	251,40	251,40
Mínimo				25,14	25,14	25,14

n2_Ant2						
ID (PNS)	Atividade	MS-Sis	MS-Oficia	Tempo (s)	Tempo (m)	Tempo (h)
Atividade				Tempo (s)	Tempo (m)	Tempo (h)
00	Atividade	1	1	25,14	25,14	25,14
00	Atividade	2	2	50,28	50,28	50,28
00	Atividade	3	3	75,42	75,42	75,42
00	Atividade	4	4	100,56	100,56	100,56
00	Atividade	5	5	125,70	125,70	125,70
00	Atividade	6	6	150,84	150,84	150,84
00	Atividade	7	7	175,98	175,98	175,98
00	Atividade	8	8	201,12	201,12	201,12
00	Atividade	9	9	226,26	226,26	226,26
00	Atividade	10	10	251,40	251,40	251,40
Resumo				Total (s)	Total (m)	Total (h)
00	Atividade	10	10	251,40	251,40	251,40
Totais				251,40	251,40	251,40
Máximo				251,40	251,40	251,40
Mínimo				25,14	25,14	25,14

n2_Ant7						
ID (PNS)	Atividade	MS-Sis	MS-Oficia	Tempo (s)	Tempo (m)	Tempo (h)
Atividade				Tempo (s)	Tempo (m)	Tempo (h)
00	Atividade	1	1	25,14	25,14	25,14
00	Atividade	2	2	50,28	50,28	50,28
00	Atividade	3	3	75,42	75,42	75,42
00	Atividade	4	4	100,56	100,56	100,56
00	Atividade	5	5	125,70	125,70	125,70
00	Atividade	6	6	150,84	150,84	150,84
00	Atividade	7	7	175,98	175,98	175,98
00	Atividade	8	8	201,12	201,12	201,12
00	Atividade	9	9	226,26	226,26	226,26
00	Atividade	10	10	251,40	251,40	251,40
Resumo				Total (s)	Total (m)	Total (h)
00	Atividade	10	10	251,40	251,40	251,40
Totais				251,40	251,40	251,40
Máximo				251,40	251,40	251,40
Mínimo				25,14	25,14	25,14



n41_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				506200	518998	531000		
100	PI2 BPSK	1	1	24.82	24.85	24.79		
100	PI2 BPSK	1	137	24.77	24.76	24.86		
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	135	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	135	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	135	138	24.32	24.24	24.19		
100	PI2 BPSK	270	0	24.12	24.18	24.14	25.5	0.5
100	QPSK	1	1	24.81	24.80	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	135	0	24.74	24.76	24.68		
100	QPSK	135	69	24.69	24.71	24.58	26.0	0.0
100	QPSK	135	138	24.32	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				506200	518998	529996	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	24.1	24.2	24.18	25.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	24.07	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	24.01	24.77	24.65	25.0	0.0
Channel								
Frequency (MHz)				506200	518998	531996	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	24.85	24.77	24.69	25.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	24.85	24.76	24.62	26.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	24.94	24.74	24.63	26.0	0.0
Channel								
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	24.68	24.77	24.64	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								
Frequency (MHz)				506200	518998	529996		
100	PI2 BPSK	1	1	16.32	16.24	16.20		
100	PI2 BPSK	1	137	16.24	16.17	16.16	17.5	0.0
100	PI2 BPSK	1	271	16.20	16.16	16.21		
100	PI2 BPSK	135	0	16.21	16.24	16.19	17.5	0.0
100	PI2 BPSK	135	69	16.26	16.12	16.11	17.5	0.0
100	PI2 BPSK	135	138	16.16	16.17	16.08		
100	PI2 BPSK	270	0	16.16	16.13	16.17	17.5	0.0
100	QPSK	1	1	16.26	16.33	16.28		
100	QPSK	1	137	16.17	16.16	16.04	17.5	0.0
100	QPSK	1	271	16.20	16.20	16.21		
100	QPSK	135	0	16.23	16.21	16.11		
100	QPSK	135	69	16.20	16.25	16.14	17.5	0.0
100	QPSK	135	138	16.19	16.10	16.11		
100	QPSK	270	0	16.30	16.32	16.13	17.5	0.0
100	16QAM	1	1	16.21	16.18	16.16	17.5	0.0
100	16QAM	1	1	16.21	16.14	16.07	17.5	0.0
100	256QAM	1	1	16.15	16.14	16.14	17.5	0.0
Channel								
Frequency (MHz)				506200	518998	529996	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	16.14	16.20	16.20	17.5	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	16.14	16.24	16.23	17.5	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	16.13	16.20	16.23	17.5	0.0
Channel								
Frequency (MHz)				506200	518998	531996	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	16.20	16.10	16.19	17.5	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	16.24	16.12	16.23	17.5	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	16.18	16.24	16.27	17.5	0.0
Channel								
Frequency (MHz)				502200	518998	534996	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	16.21	16.33	16.28	17.5	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	16.19	16.25	16.25	17.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PV2 BPSK	1	137	24.14	24.24	24.20		
100	PV2 BPSK	1	271	24.15	24.22	24.18		
100	PV2 BPSK	135	0	23.89	23.77	23.74		
100	PV2 BPSK	135	69	24.12	24.14	24.01		
100	PV2 BPSK	135	138	23.57	23.67	23.57		
100	PV2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.35	24.30		
100	QPSK	1	137	24.17	24.23	24.15		
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20		
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.63	23.34		
100	16QAM	1	1	23.27	23.38	23.23		
100	16QAM	1	1	21.81	21.90	21.83		
100	16QAM	1	1	19.95	20.05	19.99		
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	64934	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	64868	65000	65332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	64800	65000	65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	64720	65000	65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	64734	65000	65066	Tune-up limit (dBm)	MPR (dB)

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1			24.42	26.0	0.0
100	PV2 BPSK	1	137			24.41		
100	PV2 BPSK	1	271			24.45		
100	PV2 BPSK	135	0			23.83		
100	PV2 BPSK	135	69			24.31		
100	PV2 BPSK	135	138			24.15		
100	PV2 BPSK	270	0			24.01		
100	QPSK	1	1			24.33		
100	QPSK	1	137			24.28		
100	QPSK	1	271			24.32		
100	QPSK	135	0			24.14		
100	QPSK	135	69			24.30		
100	QPSK	135	138			24.25		
100	QPSK	270	0			23.62		
100	16QAM	1	1			23.86		
100	16QAM	1	1			21.81		
100	16QAM	1	1			19.93		
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	63268	63332	63400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	63200	63332	63466	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	63068	63332	63600	Tune-up limit (dBm)	MPR (dB)



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Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel	666000	666000	666000					
Frequency (MHz)	3750	3850	3950					
100	PI2 BPSK	1	1	18.09	18.30	18.17		
100	PI2 BPSK	1	137	18.05	18.14	18.16	20.0	0.0
100	PI2 BPSK	1	271	18.09	18.18	18.13		
100	PI2 BPSK	136	0	18.20	18.24	18.29	20.0	0.0
100	PI2 BPSK	136	69	18.20	18.22	18.28		
100	PI2 BPSK	136	138	18.13	18.16	18.10	20.0	0.0
100	PI2 BPSK	270	0	18.15	18.16	18.06		
100	QPSK	1	1	18.16	18.32	18.29		
100	QPSK	1	137	18.02	18.20	18.11	20.0	0.0
100	QPSK	1	271	18.09	18.17	18.18		
100	QPSK	136	0	18.02	18.22	18.19		
100	QPSK	136	69	18.04	18.30	18.20	20.0	0.0
100	QPSK	136	138	18.03	18.16	18.07		
100	QPSK	270	0	18.16	18.31	18.27	20.0	0.0
100	16QAM	1	1	18.09	18.22	18.18	20.0	0.0
100	64QAM	1	1	18.14	18.21	18.12	20.0	0.0
100	256QAM	1	1	18.12	18.19	18.11	20.0	0.0
Channel	649334	656000	662666	Tune-up limit	MPR			
Frequency (MHz)	3743.01	3800	3859.99	(dB)	(dB)			
80	PI2 BPSK	1	1	18.14	18.24	18.21	20.0	0.0
Channel	648668	656000	663332	Tune-up limit	MPR			
Frequency (MHz)	3733.02	3800	3859.98	(dB)	(dB)			
60	PI2 BPSK	1	1	18.16	18.29	18.20	20.0	0.0
Channel	648000	656000	664000	Tune-up limit	MPR			
Frequency (MHz)	3723	3800	3880	(dB)	(dB)			
40	PI2 BPSK	1	1	18.15	18.29	18.27	20.0	0.0
Channel	647968	656000	664332	Tune-up limit	MPR			
Frequency (MHz)	3713.02	3800.00	3859.98	(dB)	(dB)			
30	PI2 BPSK	1	1	18.04	18.25	18.22	20.0	0.0
Channel	647334	656000	664666	Tune-up limit	MPR			
Frequency (MHz)	3703.01	3800	3859.99	(dB)	(dB)			
20	PI2 BPSK	1	1	18.04	18.26	18.20	20.0	0.0

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Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel	633332							
Frequency (MHz)	3599.98							
100	PI2 BPSK	1	1	18.35	18.35			
100	PI2 BPSK	1	137	18.35	18.35		20.0	0.0
100	PI2 BPSK	1	271	18.40	18.41			
100	PI2 BPSK	136	0	18.35	18.41	18.36	20.0	0.0
100	PI2 BPSK	136	69	18.34	18.34	18.34		
100	PI2 BPSK	136	138	18.36	18.36	18.36	20.0	0.0
100	PI2 BPSK	270	0	18.34	18.34	18.34		
100	QPSK	1	1	18.42	18.42	18.42		
100	QPSK	1	137	18.33	18.33	18.33	20.0	0.0
100	QPSK	1	271	18.39	18.39	18.39		
100	QPSK	136	0	18.41	18.41	18.41		
100	QPSK	136	69	18.38	18.38	18.38	20.0	0.0
100	QPSK	136	138	18.37	18.37	18.37		
100	QPSK	270	0	18.40	18.40	18.40	20.0	0.0
100	16QAM	1	1	18.40	18.40	18.40	20.0	0.0
100	64QAM	1	1	18.30	18.30	18.30	20.0	0.0
100	256QAM	1	1	18.35	18.35	18.35	20.0	0.0
Channel	632668	633332	634000	Tune-up limit	MPR			
Frequency (MHz)	3493.02	3492.99	3500	(dB)	(dB)			
80	PI2 BPSK	1	1	18.33	18.38	18.33	20.0	0.0
Channel	632000	633332	634666	Tune-up limit	MPR			
Frequency (MHz)	3483	3492.99	3502.99	(dB)	(dB)			
60	PI2 BPSK	1	1	18.40	18.34	18.35	20.0	0.0
Channel	631334	633332	635332	Tune-up limit	MPR			
Frequency (MHz)	3473.01	3492.99	3502.99	(dB)	(dB)			
40	PI2 BPSK	1	1	18.37	18.35	18.41	20.0	0.0
Channel	631000	633332	635666	Tune-up limit	MPR			
Frequency (MHz)	3463	3492.99	3502.99	(dB)	(dB)			
30	PI2 BPSK	1	1	18.32	18.41	18.35	20.0	0.0
Channel	630668	633332	636000	Tune-up limit	MPR			
Frequency (MHz)	3453.02	3492.99	3502.99	(dB)	(dB)			
20	PI2 BPSK	1	1	18.36	18.33	18.41	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PW2 BPSK	1	1	24.82	24.85	24.79		
100	PW2 BPSK	1	137	24.77	24.76	24.66		
100	PW2 BPSK	1	271	24.76	24.78	24.75		
100	PW2 BPSK	135	0	24.03	24.14	24.11	25.5	0.0
100	PW2 BPSK	135	69	24.70	24.71	24.58	26.0	0.0
100	PW2 BPSK	135	138	24.22	24.24	24.19	25.5	0.0
100	PW2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	135	0	24.74	24.76	24.68		
100	QPSK	135	69	24.68	24.71	24.58	26.0	0.0
100	QPSK	135	138	24.72	24.76	24.74		
100	QPSK	270	0	23.92	23.74	23.84	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	PW2 BPSK	1	1	24.41	24.42	24.43	26.0	0.0
Channel								
Frequency (MHz)				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
80	PW2 BPSK	1	1	24.07	24.15	24.06	26.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	PW2 BPSK	1	1	23.11	23.92	23.02	26.0	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	PW2 BPSK	1	1	24.05	24.11	24.09	26.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	PW2 BPSK	1	1	24.05	24.16	24.02	26.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	PW2 BPSK	1	1	24.94	24.74	24.63	26.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	PW2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	PW2 BPSK	1	1	24.68	24.77	24.64	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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PW2 BPSK	1	1	14.22	14.21	14.19		
100	PW2 BPSK	1	137	14.17	14.06	14.14	15.5	0.0
100	PW2 BPSK	1	271	14.18	14.11	14.15		
100	PW2 BPSK	135	0	14.18	14.18	14.14	15.5	0.0
100	PW2 BPSK	135	69	14.17	14.05	14.01	15.5	0.0
100	PW2 BPSK	135	138	14.12	14.07	13.97	15.5	0.0
100	PW2 BPSK	270	0	14.13	14.06	14.05		
100	QPSK	1	1	14.26	14.28	14.28		
100	QPSK	1	137	14.11	14.16	13.98	15.5	0.0
100	QPSK	1	271	14.09	14.11	14.16		
100	QPSK	135	0	14.12	14.16	14.05		
100	QPSK	135	69	14.18	14.22	14.05	15.5	0.0
100	QPSK	135	138	14.18	14.03	14.00		
100	QPSK	270	0	14.25	14.08	14.01	15.5	0.0
100	16QAM	1	1	14.18	14.12	14.12	15.5	0.0
100	16QAM	1	1	14.17	14.13	13.98	15.5	0.0
100	256QAM	1	1	14.04	14.09	14.14	15.5	0.0
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	PW2 BPSK	1	1	14.24	14.23	14.28	15.5	0.0
Channel								
Frequency (MHz)				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
80	PW2 BPSK	1	1	14.19	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	PW2 BPSK	1	1	14.13	14.24	14.15	15.5	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	PW2 BPSK	1	1	14.25	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	PW2 BPSK	1	1	14.22	14.23	14.28	15.5	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	PW2 BPSK	1	1	14.16	14.21	14.20	15.5	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	PW2 BPSK	1	1	14.24	14.25	14.21	15.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	PW2 BPSK	1	1	14.23	14.24	14.19	15.5	0.0



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Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel							
Frequency (MHz)			64800	64900	64900		
			3750	3840	3930		
P1/2 BPSK	1	1	18.01	18.22	18.07		
P1/2 BPSK	1	137	18.84	18.99	18.53	18.0	0.0
P1/2 BPSK	1	271	18.04	18.12	18.03		
P1/2 BPSK	135	0	18.12	18.20	18.25	18.0	0.0
P1/2 BPSK	135	69	18.08	18.15	18.27	18.0	0.0
P1/2 BPSK	135	138	18.01	18.15	18.03		
P1/2 BPSK	270	0	18.02	18.12	18.99	18.0	0.0
QPSK	1	1	18.06	18.32	18.17		
QPSK	1	137	18.96	18.14	18.03		
QPSK	1	271	18.04	18.12	18.16	18.0	0.0
QPSK	135	0	18.16	18.17	18.26		
QPSK	135	69	18.97	18.29	18.15	18.0	0.0
QPSK	135	138	18.11	18.12	18.98		
QPSK	270	0	18.06	18.31	18.24	18.0	0.0
16QAM	1	1	18.06	18.20	18.07	18.0	0.0
16QAM	1	1	18.10	18.13	18.07	18.0	0.0
256QAM	1	1	18.11	18.06	18.03	18.0	0.0
Channel							
Frequency (MHz)			64934	64900	64966	Tune-up limit (dBm)	MPR (dB)
			3743.01	3840	3943.5		
P1/2 BPSK	1	1	18.95	18.20	18.15	18.0	0.0
Channel							
Frequency (MHz)			64868	64900	64932	Tune-up limit (dBm)	MPR (dB)
			3738.02	3840	3943.5		
P1/2 BPSK	1	1	18.97	18.27	18.15	18.0	0.0
Channel							
Frequency (MHz)			64800	64900	64900	Tune-up limit (dBm)	MPR (dB)
			3720	3840	3960		
P1/2 BPSK	1	1	18.04	18.22	18.11	18.0	0.0
Channel							
Frequency (MHz)			64768	64900	64932	Tune-up limit (dBm)	MPR (dB)
			3718.02	3840.00	3943.50		
P1/2 BPSK	1	1	18.04	18.21	18.10	18.0	0.0
Channel							
Frequency (MHz)			64734	64900	64966	Tune-up limit (dBm)	MPR (dB)
			3718.01	3840	3943.99		
P1/2 BPSK	1	1	18.97	18.20	18.14	18.0	0.0

Par27Q n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63932	63932	63932		
				3899.98				
100	P1/2 BPSK	1	1	18.28				
100	P1/2 BPSK	1	137	18.24			18.0	0.0
100	P1/2 BPSK	1	271	18.32				
100	P1/2 BPSK	135	0	18.36			18.0	0.0
100	P1/2 BPSK	135	69	18.22			18.0	0.0
100	P1/2 BPSK	135	138	18.26				
100	P1/2 BPSK	270	0	18.34			18.0	0.0
100	QPSK	1	1	18.42				
100	QPSK	1	137	18.31			18.0	0.0
100	QPSK	1	271	18.29				
100	QPSK	135	0	18.38				
100	QPSK	135	69	18.35			18.0	0.0
100	QPSK	135	138	18.31				
100	QPSK	270	0	18.38			18.0	0.0
100	16QAM	1	1	18.36			18.0	0.0
100	16QAM	1	1	18.21			18.0	0.0
100	256QAM	1	1	18.24			18.0	0.0
Channel								
Frequency (MHz)				63968	63932	63900	Tune-up limit (dBm)	MPR (dB)
				3899.02	3899.98	3910		
80	P1/2 BPSK	1	1	18.33	18.40	18.42	18.0	0.0
Channel								
Frequency (MHz)				63200	63932	63466	Tune-up limit (dBm)	MPR (dB)
				3480	3899.98	3918.99		
60	P1/2 BPSK	1	1	18.34	18.33	18.33	18.0	0.0
Channel								
Frequency (MHz)				63134	63932	63532	Tune-up limit (dBm)	MPR (dB)
				3470.01	3899.98	3923.98		
40	P1/2 BPSK	1	1	18.42	18.39	18.33	18.0	0.0
Channel								
Frequency (MHz)				63100	63932	63666	Tune-up limit (dBm)	MPR (dB)
				3460	3899.98	3934.99		
30	P1/2 BPSK	1	1	18.39	18.33	18.36	18.0	0.0
Channel								
Frequency (MHz)				63068	63932	63600	Tune-up limit (dBm)	MPR (dB)
				3450.02	3899.98	3940		
20	P1/2 BPSK	1	1	18.35	18.31	18.34	18.0	0.0



n41_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				28602	18698	30900		
100	PV2 BPSK	1	1	24.82	24.85	24.79		
100	PV2 BPSK	1	137	24.77	24.79	24.85	26.0	0.0
100	PV2 BPSK	1	271	24.75	24.78	24.75		
100	PV2 BPSK	138	0	24.03	24.14	24.11	26.5	0.5
100	PV2 BPSK	138	69	24.70	24.71	24.68	26.0	0.0
100	PV2 BPSK	138	138	24.22	24.24	24.19	26.5	0.5
100	PV2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.83	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	138	0	24.74	24.76	24.68		
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0
100	QPSK	138	138	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	16QAM	1	1	19.30	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				58620	51898	52998	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.87	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				50724	51898	52998	Tune-up limit	MPR
80	PV2 BPSK	1	1	24.69	24.77	24.66	25.0	0.0
Channel								
Frequency (MHz)				50620	51898	53100	Tune-up limit	MPR
70	PV2 BPSK	1	1	24.69	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				50620	51898	53196	Tune-up limit	MPR
60	PV2 BPSK	1	1	24.65	24.77	24.69	25.0	0.0
Channel								
Frequency (MHz)				50424	51898	53298	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.65	24.76	24.62	25.0	0.0
Channel								
Frequency (MHz)				50320	51898	53400	Tune-up limit	MPR
40	PV2 BPSK	1	1	24.64	24.74	24.63	25.0	0.0
Channel								
Frequency (MHz)				50220	51898	53496	Tune-up limit	MPR
30	PV2 BPSK	1	1	24.71	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				50124	51898	53598	Tune-up limit	MPR
20	PV2 BPSK	1	1	24.68	24.77	24.64	25.0	0.0

n41_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				30902	18698	30900		
100	PV2 BPSK	1	1	24.82	24.85	24.79		
100	PV2 BPSK	1	137	24.77	24.79	24.85	26.0	0.0
100	PV2 BPSK	1	271	24.75	24.78	24.75		
100	PV2 BPSK	138	0	24.03	24.14	24.11	26.5	0.5
100	PV2 BPSK	138	69	24.70	24.71	24.68	26.0	0.0
100	PV2 BPSK	138	138	24.22	24.24	24.19	26.5	0.5
100	PV2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.83	24.76		
100	QPSK	1	137	24.72	24.83	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	138	0	24.74	24.76	24.68		
100	QPSK	138	69	24.69	24.71	24.58	26.0	0.0
100	QPSK	138	138	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	23.90	23.92	23.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	16QAM	1	1	19.30	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)				58620	51898	52998	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.87	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				50724	51898	52998	Tune-up limit	MPR
80	PV2 BPSK	1	1	24.69	24.77	24.66	25.0	0.0
Channel								
Frequency (MHz)				50620	51898	53100	Tune-up limit	MPR
70	PV2 BPSK	1	1	24.69	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				50620	51898	53196	Tune-up limit	MPR
60	PV2 BPSK	1	1	24.65	24.77	24.69	25.0	0.0
Channel								
Frequency (MHz)				50424	51898	53298	Tune-up limit	MPR
50	PV2 BPSK	1	1	24.65	24.76	24.62	25.0	0.0
Channel								
Frequency (MHz)				50320	51898	53400	Tune-up limit	MPR
40	PV2 BPSK	1	1	24.64	24.74	24.63	25.0	0.0
Channel								
Frequency (MHz)				50220	51898	53496	Tune-up limit	MPR
30	PV2 BPSK	1	1	24.71	24.75	24.62	25.0	0.0
Channel								
Frequency (MHz)				50124	51898	53598	Tune-up limit	MPR
20	PV2 BPSK	1	1	24.68	24.77	24.64	25.0	0.0



Par270 n77_FCC_Ant8

BW (MHz)	Modulation	RB 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	24.21	24.32	24.29	26.0	0.0
100	PV2 BPSK	1	137	24.14	24.24	24.20		
100	PV2 BPSK	1	271	24.15	24.22	24.18		
100	PV2 BPSK	135	0	23.89	23.77	23.74	26.5	0.5
100	PV2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PV2 BPSK	135	138	23.57	23.67	23.57	26.5	0.5
100	PV2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.35	24.30		
100	QPSK	1	137	24.17	24.23	24.15		
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20		
100	QPSK	135	138	24.11	24.16	24.09	25.0	1.0
100	QPSK	270	0	23.27	23.23	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	23.5	2.5
100	16QAM	1	1	21.81	21.90	21.83	21.5	4.5
100	256QAM	1	1	19.95	20.05	19.95	21.5	4.5
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	64934	65000	65066	Tune-up limit	MPR
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	64868	65000	65332	Tune-up limit	MPR
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	64800	65000	65000	Tune-up limit	MPR
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	64734	65000	65432	Tune-up limit	MPR
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	64668	65000	65666	Tune-up limit	MPR

Par27Q n77_FCC_Ant8

BW (MHz)	Modulation	RB 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			24.42	26.0	0.0
100	PV2 BPSK	1	137			24.41		
100	PV2 BPSK	1	271			24.45		
100	PV2 BPSK	135	0			23.93	25.5	0.5
100	PV2 BPSK	135	69			24.31	26.0	0.0
100	PV2 BPSK	135	138			24.15	25.5	0.5
100	PV2 BPSK	270	0			24.01	26.0	0.0
100	QPSK	1	1			24.33		
100	QPSK	1	137			24.26		
100	QPSK	1	271			24.32	26.0	0.0
100	QPSK	135	0			24.14		
100	QPSK	135	69			24.39		
100	QPSK	135	138			24.28	25.0	1.0
100	QPSK	270	0			23.82	25.0	1.0
100	16QAM	1	1			23.86	23.5	2.5
100	16QAM	1	1			21.81	21.5	4.5
100	256QAM	1	1			19.93	21.5	4.5
Channel								
Frequency (MHz)								
80	PV2 BPSK	1	1	65066	65332	65000	Tune-up limit	MPR
Channel								
Frequency (MHz)								
60	PV2 BPSK	1	1	65000	65332	65666	Tune-up limit	MPR
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	65000	65332	65332	Tune-up limit	MPR
Channel								
Frequency (MHz)								
30	PV2 BPSK	1	1	65000	65332	65666	Tune-up limit	MPR
Channel								
Frequency (MHz)								
20	PV2 BPSK	1	1	65066	65332	65000	Tune-up limit	MPR



Par270 n77_FCC_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3900	3900	26.0	0.0
100	PI2 BPSK	1	137	24.21	24.32	24.29		
100	PI2 BPSK	1	271	24.18	24.22	24.18		
100	PI2 BPSK	135	0	23.69	23.77	23.74		
100	PI2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.57	23.67	23.57	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.38	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15		
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	135	0	24.12	24.23	24.22		
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	135	138	24.11	24.16	24.09	25.0	1.0
100	QPSK	270	0	23.27	23.33	23.24		
100	16QAM	1	1	23.27	23.38	23.23	26.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.95	20.08	19.99	21.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	649334	656000	652666	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.15	24.06	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	648668	656000	653332	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.09	24.15	24.07	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	648000	656000	654000	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3750	3900	3900	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647968	656000	654332	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.11	24.15	24.10	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647334	656000	654666	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.08	24.17	24.12	26.0	0.0

Par27Q n77_FCC_Ant7

BW (MHz)	Modulation	RB 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	3599.98	35332	35332	26.0	0.0
100	PI2 BPSK	1	137	24.42	24.41	24.41		
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	135	0	23.93	23.93	23.93		
100	PI2 BPSK	135	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	135	138	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28		
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	135	0	24.14	24.14	24.14		
100	QPSK	135	69	24.39	24.39	24.39	26.0	0.0
100	QPSK	135	138	24.26	24.26	24.26	25.0	1.0
100	QPSK	270	0	23.92	23.92	23.92		
100	16QAM	1	1	23.56	23.56	23.56	26.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	632668	633332	634000	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.25	24.19	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	632000	633332	634666	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.21	24.21	24.19	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631334	633332	635332	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.23	24.24	24.20	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631000	633332	635666	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	630668	633332	636000	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0



n71_Ant0						
MSI (MHz)	Subcarrier	MCS	MSK (MHz)	Power [dBm]	Power [dBm]	Power [dBm]
Power Spectral Density						
10	100	1	100	20.0	20.0	20.0
20	200	2	200	20.0	20.0	20.0
30	300	3	300	20.0	20.0	20.0
40	400	4	400	20.0	20.0	20.0
50	500	5	500	20.0	20.0	20.0
60	600	6	600	20.0	20.0	20.0
70	700	7	700	20.0	20.0	20.0
80	800	8	800	20.0	20.0	20.0
90	900	9	900	20.0	20.0	20.0
100	1000	10	1000	20.0	20.0	20.0
110	1100	11	1100	20.0	20.0	20.0
120	1200	12	1200	20.0	20.0	20.0
130	1300	13	1300	20.0	20.0	20.0
140	1400	14	1400	20.0	20.0	20.0
150	1500	15	1500	20.0	20.0	20.0
160	1600	16	1600	20.0	20.0	20.0
170	1700	17	1700	20.0	20.0	20.0
180	1800	18	1800	20.0	20.0	20.0
190	1900	19	1900	20.0	20.0	20.0
200	2000	20	2000	20.0	20.0	20.0
210	2100	21	2100	20.0	20.0	20.0
220	2200	22	2200	20.0	20.0	20.0
230	2300	23	2300	20.0	20.0	20.0
240	2400	24	2400	20.0	20.0	20.0
250	2500	25	2500	20.0	20.0	20.0
260	2600	26	2600	20.0	20.0	20.0
270	2700	27	2700	20.0	20.0	20.0
280	2800	28	2800	20.0	20.0	20.0
290	2900	29	2900	20.0	20.0	20.0
300	3000	30	3000	20.0	20.0	20.0
Total Power						
300	3000	30	3000	20.0	20.0	20.0

n71_Ant2						
MSI (MHz)	Subcarrier	MCS	MSK (MHz)	Power [dBm]	Power [dBm]	Power [dBm]
Power Spectral Density						
10	100	1	100	20.0	20.0	20.0
20	200	2	200	20.0	20.0	20.0
30	300	3	300	20.0	20.0	20.0
40	400	4	400	20.0	20.0	20.0
50	500	5	500	20.0	20.0	20.0
60	600	6	600	20.0	20.0	20.0
70	700	7	700	20.0	20.0	20.0
80	800	8	800	20.0	20.0	20.0
90	900	9	900	20.0	20.0	20.0
100	1000	10	1000	20.0	20.0	20.0
110	1100	11	1100	20.0	20.0	20.0
120	1200	12	1200	20.0	20.0	20.0
130	1300	13	1300	20.0	20.0	20.0
140	1400	14	1400	20.0	20.0	20.0
150	1500	15	1500	20.0	20.0	20.0
160	1600	16	1600	20.0	20.0	20.0
170	1700	17	1700	20.0	20.0	20.0
180	1800	18	1800	20.0	20.0	20.0
190	1900	19	1900	20.0	20.0	20.0
200	2000	20	2000	20.0	20.0	20.0
210	2100	21	2100	20.0	20.0	20.0
220	2200	22	2200	20.0	20.0	20.0
230	2300	23	2300	20.0	20.0	20.0
240	2400	24	2400	20.0	20.0	20.0
250	2500	25	2500	20.0	20.0	20.0
260	2600	26	2600	20.0	20.0	20.0
270	2700	27	2700	20.0	20.0	20.0
280	2800	28	2800	20.0	20.0	20.0
290	2900	29	2900	20.0	20.0	20.0
300	3000	30	3000	20.0	20.0	20.0
Total Power						
300	3000	30	3000	20.0	20.0	20.0



n41_FCC_Ant8											
BW (MHz)	Modulation	RB 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	24.82	24.85	24.79	26.0	0.0			
100	P12 BPSK	1	137	24.77	24.79	24.66					
100	P12 BPSK	1	271	24.76	24.78	24.75					
100	P12 BPSK	135	0	24.03	24.14	24.11	26.5	0.5			
100	P12 BPSK	135	69	24.70	24.71	24.68					
100	P12 BPSK	135	138	24.22	24.24	24.19					
100	P12 BPSK	270	0	24.12	24.18	24.14	25.5	0.5			
100	QPSK	1	1	24.82	24.85	24.76					
100	QPSK	1	137	24.72	24.83	24.70					
100	QPSK	1	271	24.71	24.81	24.80	26.0	0.0			
100	QPSK	135	0	24.74	24.76	24.69					
100	QPSK	135	69	24.69	24.71	24.68					
100	QPSK	135	138	24.72	24.76	24.74	26.0	1.0			
100	QPSK	270	0	23.62	23.74	23.64					
100	16QAM	1	1	23.80	23.82	23.81					
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5			
100	16QAM	1	1	19.90	20.03	19.94					
100	16QAM	1	1	19.90	20.03	19.94					
Channel											
Frequency (MHz)											
50	P12 BPSK	1	1	24.87	24.75	24.82	25.0	0.0			
Channel											
Frequency (MHz)											
80	P12 BPSK	1	1	24.69	24.77	24.66	25.0	0.0			
Channel											
Frequency (MHz)											
70	P12 BPSK	1	1	24.69	24.75	24.64	25.0	0.0			
Channel											
Frequency (MHz)											
60	P12 BPSK	1	1	24.65	24.77	24.69	25.0	0.0			
Channel											
Frequency (MHz)											
50	P12 BPSK	1	1	24.65	24.76	24.62	25.0	0.0			
Channel											
Frequency (MHz)											
40	P12 BPSK	1	1	24.64	24.74	24.63	25.0	0.0			
Channel											
Frequency (MHz)											
30	P12 BPSK	1	1	24.71	24.75	24.62	25.0	0.0			
Channel											
Frequency (MHz)											
20	P12 BPSK	1	1	24.68	24.77	24.64	25.0	0.0			
Channel											
Frequency (MHz)											

n41_FCC_Ant7											
BW (MHz)	Modulation	RB 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	24.82	24.85	24.79	26.0	0.0			
100	P12 BPSK	1	137	24.77	24.79	24.66					
100	P12 BPSK	1	271	24.76	24.78	24.75					
100	P12 BPSK	135	0	24.03	24.14	24.11	26.5	0.5			
100	P12 BPSK	135	69	24.70	24.71	24.68					
100	P12 BPSK	135	138	24.22	24.24	24.19					
100	P12 BPSK	270	0	24.12	24.18	24.14	25.5	0.5			
100	QPSK	1	1	24.81	24.88	24.76					
100	QPSK	1	137	24.72	24.83	24.70					
100	QPSK	1	271	24.71	24.81	24.80	26.0	0.0			
100	QPSK	135	0	24.74	24.76	24.69					
100	QPSK	135	69	24.69	24.71	24.68					
100	QPSK	135	138	24.72	24.76	24.74	26.0	1.0			
100	QPSK	270	0	23.62	23.74	23.64					
100	16QAM	1	1	23.80	23.82	23.81					
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5			
100	16QAM	1	1	19.90	20.03	19.94					
100	16QAM	1	1	19.90	20.03	19.94					
Channel											
Frequency (MHz)											
50	P12 BPSK	1	1	24.87	24.75	24.82	25.0	0.0			
Channel											
Frequency (MHz)											
80	P12 BPSK	1	1	24.69	24.77	24.66	25.0	0.0			
Channel											
Frequency (MHz)											
70	P12 BPSK	1	1	24.69	24.75	24.64	25.0	0.0			
Channel											
Frequency (MHz)											
60	P12 BPSK	1	1	24.65	24.77	24.69	25.0	0.0			
Channel											
Frequency (MHz)											
50	P12 BPSK	1	1	24.65	24.76	24.62	25.0	0.0			
Channel											
Frequency (MHz)											
40	P12 BPSK	1	1	24.64	24.74	24.63	25.0	0.0			
Channel											
Frequency (MHz)											
30	P12 BPSK	1	1	24.71	24.75	24.62	25.0	0.0			
Channel											
Frequency (MHz)											
20	P12 BPSK	1	1	24.68	24.77	24.64	25.0	0.0			
Channel											
Frequency (MHz)											



Par270 n77_FCC_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				656000	656000	656000		
100	PI2 BPSK	1	1	24.21	24.32	24.29		
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	135	0	23.89	23.77	23.74	25.5	0.5
100	PI2 BPSK	135	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.57	23.67	23.57	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.68		
100	QPSK	1	1	24.33	24.36	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.08		
100	QPSK	135	0	24.12	24.21	24.22		
100	QPSK	135	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	135	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	16QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.95	20.08	19.99	21.5	4.5
Channel								
Frequency (MHz)				649334	656000	652666	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	24.12	24.16	24.06	25.0	0.0
Channel								
Frequency (MHz)				648968	656000	653332	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	24.09	24.15	24.07	25.0	0.0
Channel								
Frequency (MHz)				648000	656000	654000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	24.11	24.10	24.11	25.0	0.0
Channel								
Frequency (MHz)				647668	656000	654332	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	24.09	24.10	24.10	25.0	0.0
Channel								
Frequency (MHz)				647334	656000	654666	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	24.09	24.17	24.12	25.0	0.0

Par27Q n77_FCC_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332	633332	633332		
100	PI2 BPSK	1	1	24.42	24.42	24.42		
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	135	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	135	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	135	138	24.15	24.15	24.15	25.0	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.26	24.26	24.26	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	135	0	24.14	24.14	24.14		
100	QPSK	135	69	24.39	24.39	24.39	26.0	0.0
100	QPSK	135	138	24.28	24.28	24.28		
100	QPSK	270	0	23.82	23.82	23.82	25.0	1.0
100	16QAM	1	1	23.86	23.86	23.86	25.0	1.0
100	16QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	24.22	24.25	24.19	25.0	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	24.23	24.21	24.19	25.0	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	24.23	24.24	24.23	25.0	0.0
Channel								
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	24.21	24.23	24.21	25.0	0.0
Channel								
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0



Par270 n77_FCC_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3850	3950	24.5	0.0
100	PI2 BPSK	1	137	22.72	22.72	22.65		
100	PI2 BPSK	1	271	22.72	22.74	22.51		
100	PI2 BPSK	135	0	22.79	22.78	22.65		
100	PI2 BPSK	135	69	22.71	22.80	22.65		
100	PI2 BPSK	135	138	22.79	22.81	22.55		
100	PI2 BPSK	270	0	22.78	22.82	22.69		
100	QPSK	1	1	22.86	22.88	22.77		
100	QPSK	1	137	22.83	22.82	22.70		
100	QPSK	1	271	22.85	22.79	22.76		
100	QPSK	135	0	22.75	22.79	22.63		
100	QPSK	135	69	22.82	22.83	22.71		
100	QPSK	135	138	22.81	22.82	22.64		
100	QPSK	270	0	22.79	22.81	22.68		
100	16QAM	1	1	22.75	22.75	22.66		
100	16QAM	1	1	21.72	21.77	21.66		
100	256QAM	1	1	19.74	19.77	19.64		
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	84934	85000	85066	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	74010	840	383332	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.74	22.82	22.70	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	84800	85000	85400	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	370	340	300	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.81	22.75	22.51	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	64734	85000	86466	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	31010	340	300330	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.81	22.76	22.65	Tune-up limit (dBm)	MPR

Par27Q n77_FCC_Ant7

BW [MHz]	Modulation	RB 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	83332	83332	83332	24.5	0.0
100	PI2 BPSK	1	137	22.86	22.86	22.86		
100	PI2 BPSK	1	271	22.82	22.82	22.82		
100	PI2 BPSK	135	0	22.83	22.83	22.83		
100	PI2 BPSK	135	69	22.84	22.84	22.84		
100	PI2 BPSK	135	138	22.87	22.87	22.87		
100	PI2 BPSK	270	0	22.81	22.81	22.81		
100	QPSK	1	1	22.87	22.87	22.87		
100	QPSK	1	137	22.87	22.87	22.87		
100	QPSK	1	271	22.83	22.83	22.83		
100	QPSK	135	0	22.82	22.82	22.82		
100	QPSK	135	69	22.86	22.86	22.86		
100	QPSK	135	138	22.83	22.83	22.83		
100	QPSK	270	0	22.81	22.81	22.81		
100	16QAM	1	1	22.81	22.81	22.81		
100	16QAM	1	1	21.89	21.89	21.89		
100	256QAM	1	1	19.95	19.95	19.95		
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	83066	83332	83600	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	74010	840	383332	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	83134	83332	83532	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	317010	340	300330	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.86	22.86	22.86	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	83066	83332	83600	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	30682	340	300330	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.92	22.94	22.95	Tune-up limit (dBm)	MPR



Band 66_Ant 1								
RR Config	Subcarrier	RB Size	RR Config	Total BW (MHz)	Number of PRBs	Power Spectral Density (W/MHz)	Coverage Rate (km/h)	SINR (dB)
Channel 1								
1	1	18	1	18.0	18	0.5000	20.4	4
1	2	18	2	36.0	36	0.5000	20.4	1
1	3	18	3	54.0	54	0.5000	20.4	1
1	4	18	4	72.0	72	0.5000	20.4	1
1	5	18	5	90.0	90	0.5000	20.4	1
1	6	18	6	108.0	108	0.5000	20.4	1
1	7	18	7	126.0	126	0.5000	20.4	1
1	8	18	8	144.0	144	0.5000	20.4	1
1	9	18	9	162.0	162	0.5000	20.4	1
1	10	18	10	180.0	180	0.5000	20.4	1
1	11	18	11	198.0	198	0.5000	20.4	1
1	12	18	12	216.0	216	0.5000	20.4	1
1	13	18	13	234.0	234	0.5000	20.4	1
1	14	18	14	252.0	252	0.5000	20.4	1
1	15	18	15	270.0	270	0.5000	20.4	1
1	16	18	16	288.0	288	0.5000	20.4	1
1	17	18	17	306.0	306	0.5000	20.4	1
1	18	18	18	324.0	324	0.5000	20.4	1
1	19	18	19	342.0	342	0.5000	20.4	1
1	20	18	20	360.0	360	0.5000	20.4	1
1	21	18	21	378.0	378	0.5000	20.4	1
1	22	18	22	396.0	396	0.5000	20.4	1
1	23	18	23	414.0	414	0.5000	20.4	1
1	24	18	24	432.0	432	0.5000	20.4	1
1	25	18	25	450.0	450	0.5000	20.4	1
1	26	18	26	468.0	468	0.5000	20.4	1
1	27	18	27	486.0	486	0.5000	20.4	1
1	28	18	28	504.0	504	0.5000	20.4	1
1	29	18	29	522.0	522	0.5000	20.4	1
1	30	18	30	540.0	540	0.5000	20.4	1
1	31	18	31	558.0	558	0.5000	20.4	1
1	32	18	32	576.0	576	0.5000	20.4	1
1	33	18	33	594.0	594	0.5000	20.4	1
1	34	18	34	612.0	612	0.5000	20.4	1
1	35	18	35	630.0	630	0.5000	20.4	1
1	36	18	36	648.0	648	0.5000	20.4	1
1	37	18	37	666.0	666	0.5000	20.4	1
1	38	18	38	684.0	684	0.5000	20.4	1
1	39	18	39	702.0	702	0.5000	20.4	1
1	40	18	40	720.0	720	0.5000	20.4	1
1	41	18	41	738.0	738	0.5000	20.4	1
1	42	18	42	756.0	756	0.5000	20.4	1
1	43	18	43	774.0	774	0.5000	20.4	1
1	44	18	44	792.0	792	0.5000	20.4	1
1	45	18	45	810.0	810	0.5000	20.4	1
1	46	18	46	828.0	828	0.5000	20.4	1
1	47	18	47	846.0	846	0.5000	20.4	1
1	48	18	48	864.0	864	0.5000	20.4	1
1	49	18	49	882.0	882	0.5000	20.4	1
1	50	18	50	900.0	900	0.5000	20.4	1
1	51	18	51	918.0	918	0.5000	20.4	1
1	52	18	52	936.0	936	0.5000	20.4	1
1	53	18	53	954.0	954	0.5000	20.4	1
1	54	18	54	972.0	972	0.5000	20.4	1
1	55	18	55	990.0	990	0.5000	20.4	1
1	56	18	56	1008.0	1008	0.5000	20.4	1
1	57	18	57	1026.0	1026	0.5000	20.4	1
1	58	18	58	1044.0	1044	0.5000	20.4	1
1	59	18	59	1062.0	1062	0.5000	20.4	1
1	60	18	60	1080.0	1080	0.5000	20.4	1
1	61	18	61	1098.0	1098	0.5000	20.4	1
1	62	18	62	1116.0	1116	0.5000	20.4	1
1	63	18	63	1134.0	1134	0.5000	20.4	1
1	64	18	64	1152.0	1152	0.5000	20.4	1
1	65	18	65	1170.0	1170	0.5000	20.4	1
1	66	18	66	1188.0	1188	0.5000	20.4	1
1	67	18	67	1206.0	1206	0.5000	20.4	1
1	68	18	68	1224.0	1224	0.5000	20.4	1
1	69	18	69	1242.0	1242	0.5000	20.4	1
1	70	18	70	1260.0	1260	0.5000	20.4	1
1	71	18	71	1278.0	1278	0.5000	20.4	1
1	72	18	72	1296.0	1296	0.5000	20.4	1
1	73	18	73	1314.0	1314	0.5000	20.4	1
1	74	18	74	1332.0	1332	0.5000	20.4	1
1	75	18	75	1350.0	1350	0.5000	20.4	1
1	76	18	76	1368.0	1368	0.5000	20.4	1
1	77	18	77	1386.0	1386	0.5000	20.4	1
1	78	18	78	1404.0	1404	0.5000	20.4	1
1	79	18	79	1422.0	1422	0.5000	20.4	1
1	80	18	80	1440.0	1440	0.5000	20.4	1
1	81	18	81	1458.0	1458	0.5000	20.4	1
1	82	18	82	1476.0	1476	0.5000	20.4	1
1	83	18	83	1494.0	1494	0.5000	20.4	1
1	84	18	84	1512.0	1512	0.5000	20.4	1
1	85	18	85	1530.0	1530	0.5000	20.4	1
1	86	18	86	1548.0	1548	0.5000	20.4	1
1	87	18	87	1566.0	1566	0.5000	20.4	1
1	88	18	88	1584.0	1584	0.5000	20.4	1
1	89	18	89	1602.0	1602	0.5000	20.4	1
1	90	18	90	1620.0	1620	0.5000	20.4	1
1	91	18	91	1638.0	1638	0.5000	20.4	1
1	92	18	92	1656.0	1656	0.5000	20.4	1
1	93	18	93	1674.0	1674	0.5000	20.4	1
1	94	18	94	1692.0	1692	0.5000	20.4	1
1	95	18	95	1710.0	1710	0.5000	20.4	1
1	96	18	96	1728.0	1728	0.5000	20.4	1
1	97	18	97	1746.0	1746	0.5000	20.4	1
1	98	18	98	1764.0	1764	0.5000	20.4	1
1	99	18	99	1782.0	1782	0.5000	20.4	1
1	100	18	100	1800.0	1800	0.5000	20.4	1
1	101	18	101	1818.0	1818	0.5000	20.4	1
1	102	18	102	1836.0	1836	0.5000	20.4	1
1	103	18	103	1854.0	1854	0.5000	20.4	1
1	104	18	104	1872.0	1872	0.5000	20.4	1
1	105	18	105	1890.0	1890	0.5000	20.4	1
1	106	18	106	1908.0	1908	0.5000	20.4	1
1	107	18	107	1926.0	1926	0.5000	20.4	1
1	108	18	108	1944.0	1944	0.5000	20.4	1
1	109	18	109	1962.0	1962	0.5000	20.4	1
1	110	18	110	1980.0	1980	0.5000	20.4	1
1	111	18	111	1998.0	1998	0.5000	20.4	1
1	112	18	112	2016.0	2016	0.5000	20.4	1
1	113	18	113	2034.0	2034	0.5000	20.4	1
1	114	18	114	2052.0	2052	0.5000	20.4	1
1	115	18	115	2070.0	2070	0.5000	20.4	1
1	116	18	116	2088.0	2088	0.5000	20.4	1
1	117	18	117	2106.0	2106	0.5000	20.4	1
1	118	18	118	2124.0	2124	0.5000	20.4	1
1	119	18	119	2142.0	2142	0.5000	20.4	1
1	120	18	120	2160.0	2160	0.5000	20.4	1
1	121	18	121	2178.0	2178	0.5000	20.4	1
1	122	18	122	2196.0	2196	0.5000	20.4	1
1	123	18	123	2214.0	2214	0.5000	20.4	1
1	124	18	124	2232.0	2232	0.5000	20.4	1
1	125	18	125	2250.0	2250	0.5000	20.4	1
1	126	18	126	2268.0	2268	0.5000	20.4	1
1	127	18	127	2286.0	2286	0.5000	20.4	1
1	128	18	128	2304.0	2304	0.5000	20.4	1
1	129	18	129	2322.0	2322	0.5000	20.4	1
1	130	18	130	2340.0	2340	0.5000	20.4	1
1	131	18	131	2358.0	2358	0.5000	20.4	1
1	132	18	132	2376.0	2376	0.5000	20.4	1
1	133	18	133	2394.0	2394	0.5000	20.4	1
1	134	18	134	2412.0	2412	0.5000	20.4	1
1	135	18	135	2430.0	2430	0.5000	20.4	1
1	136	18	136	2448.0	2448	0.5000	20.4	1
1	137	18	137	2466.0	2466	0.5000	20.4	1
1	138	18	138	2484.0	2484	0.5000	20.4	1
1	139	18	139	2502.0	2502	0.5000	20.4	1
1	140	18	140	2520.0	2520	0.5000	20.4	1
1	141	18	141	2538.0	2538	0.5000	20.4	1
1	142	18	142	2556.0	2556	0.5000	20.4	1
1	143	18	143	2574.0	2574	0.5000	20.4	1
1	144	18	144	2592.0	2592	0.5000	20.4	1
1	145	18	145	2610.0	2610	0.5000	20.4	1
1	146	18	146	2628.0	2628	0.5000	20.4	1
1	147	18	147	2646.0	2646	0.5000	20.4	1
1	148	18	148	2664.0	2664	0.5000	20.4	1
1	149	18	149	2682.0	2682	0.5000	20.4	1
1	150	18	150	2700.0	2700	0.5000	20.4	1
1	151	18	151	2718.0	2718	0.5000	20.4	1
1	152	18	152	2736.0	2736	0.5000	20.4	1
1	153	18	153	2754.0	2754	0.5000	20.4	1
1	154	18	154	2772.0	2772	0.5000	20.4	1
1	155	18	155	2790.0	2790	0.5000	20.4	1
1	156	18	156	2808.0	2808	0.5000	20.4	1
1	157	18						



n71_Ant0									
Station	Reference	Altitude	Antenna	Height	Frequency	Power	Modulation	Bandwidth	SNR
101	101-001	100	101-001	100	101-001	100	101-001	100	100
102	102-001	100	102-001	100	102-001	100	102-001	100	100
103	103-001	100	103-001	100	103-001	100	103-001	100	100
104	104-001	100	104-001	100	104-001	100	104-001	100	100
105	105-001	100	105-001	100	105-001	100	105-001	100	100
106	106-001	100	106-001	100	106-001	100	106-001	100	100
107	107-001	100	107-001	100	107-001	100	107-001	100	100
108	108-001	100	108-001	100	108-001	100	108-001	100	100
109	109-001	100	109-001	100	109-001	100	109-001	100	100
110	110-001	100	110-001	100	110-001	100	110-001	100	100
111	111-001	100	111-001	100	111-001	100	111-001	100	100
112	112-001	100	112-001	100	112-001	100	112-001	100	100
113	113-001	100	113-001	100	113-001	100	113-001	100	100
114	114-001	100	114-001	100	114-001	100	114-001	100	100
115	115-001	100	115-001	100	115-001	100	115-001	100	100
116	116-001	100	116-001	100	116-001	100	116-001	100	100
117	117-001	100	117-001	100	117-001	100	117-001	100	100
118	118-001	100	118-001	100	118-001	100	118-001	100	100
119	119-001	100	119-001	100	119-001	100	119-001	100	100
120	120-001	100	120-001	100	120-001	100	120-001	100	100

n71_Ant2									
Station	Reference	Altitude	Antenna	Height	Frequency	Power	Modulation	Bandwidth	SNR
201	201-001	200	201-001	200	201-001	200	201-001	200	200
202	202-001	200	202-001	200	202-001	200	202-001	200	200
203	203-001	200	203-001	200	203-001	200	203-001	200	200
204	204-001	200	204-001	200	204-001	200	204-001	200	200
205	205-001	200	205-001	200	205-001	200	205-001	200	200
206	206-001	200	206-001	200	206-001	200	206-001	200	200
207	207-001	200	207-001	200	207-001	200	207-001	200	200
208	208-001	200	208-001	200	208-001	200	208-001	200	200
209	209-001	200	209-001	200	209-001	200	209-001	200	200
210	210-001	200	210-001	200	210-001	200	210-001	200	200
211	211-001	200	211-001	200	211-001	200	211-001	200	200
212	212-001	200	212-001	200	212-001	200	212-001	200	200
213	213-001	200	213-001	200	213-001	200	213-001	200	200
214	214-001	200	214-001	200	214-001	200	214-001	200	200
215	215-001	200	215-001	200	215-001	200	215-001	200	200
216	216-001	200	216-001	200	216-001	200	216-001	200	200
217	217-001	200	217-001	200	217-001	200	217-001	200	200
218	218-001	200	218-001	200	218-001	200	218-001	200	200
219	219-001	200	219-001	200	219-001	200	219-001	200	200
220	220-001	200	220-001	200	220-001	200	220-001	200	200



n41_FCC_Ant8

BW (MHz)	Modulation	RB 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	24.82	24.85	24.79	28.0	0.0
100	P12 BPSK	1	137	24.77	24.79	24.85		
100	P12 BPSK	1	271	24.76	24.78	24.75		
100	P12 BPSK	135	0	24.03	24.14	24.11	28.5	0.5
100	P12 BPSK	135	69	24.70	24.71	24.68	28.0	0.0
100	P12 BPSK	135	138	24.22	24.24	24.19	28.5	0.5
100	P12 BPSK	270	0	24.12	24.18	24.14	28.0	0.0
100	QPSK	1	1	24.81	24.83	24.76	28.0	0.0
100	QPSK	1	137	24.72	24.83	24.70		
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	135	0	24.74	24.76	24.68	28.0	0.0
100	QPSK	135	69	24.69	24.71	24.58	28.0	0.0
100	QPSK	135	138	24.72	24.76	24.74	28.0	1.0
100	QPSK	270	0	23.82	23.74	23.64	23.0	0.0
100	16QAM	1	1	23.80	23.82	23.81	28.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	16QAM	1	1	13.90	20.03	19.94	21.5	4.5
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	50.724	51.058	52.998	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	24.69	24.77	24.65	28.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	50.620	51.058	53.100	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	24.65	24.77	24.69	28.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	50.204	51.058	53.298	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	24.64	24.74	24.63	28.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	50.200	51.058	53.998	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	24.68	24.77	24.64	28.0	0.0

n41_FCC_Ant7

BW (MHz)	Modulation	RB 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	14.22	14.23	14.19	15.5	0.0
100	P12 BPSK	1	137	14.17	14.20	14.14		
100	P12 BPSK	1	271	14.18	14.11	14.13		
100	P12 BPSK	135	0	14.18	14.18	14.14	15.5	0.0
100	P12 BPSK	135	69	14.17	14.20	14.01	15.5	0.0
100	P12 BPSK	135	138	14.12	14.07	13.97	15.5	0.0
100	P12 BPSK	270	0	14.13	14.05	14.05	15.5	0.0
100	QPSK	1	1	14.25	14.28	14.28	15.5	0.0
100	QPSK	1	137	14.11	14.18	13.98		
100	QPSK	1	271	14.09	14.11	14.16		
100	QPSK	135	0	14.12	14.10	14.05	15.5	0.0
100	QPSK	135	69	14.19	14.22	14.05	15.5	0.0
100	QPSK	135	138	14.18	14.03	14.00	15.5	0.0
100	QPSK	270	0	14.25	14.28	14.01	15.5	0.0
100	16QAM	1	1	14.18	14.12	14.12	15.5	0.0
100	16QAM	1	1	14.17	14.13	13.98	15.5	0.0
100	16QAM	1	1	14.04	14.09	14.14	15.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	14.24	14.23	14.23	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	14.19	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	50.620	51.058	53.100	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	14.25	14.23	14.19	15.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	50.204	51.058	53.298	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	14.22	14.23	14.28	15.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	50.200	51.058	53.998	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	14.23	14.24	14.19	15.5	0.0



Par270 n77_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				648000	650000	652000		
100	P1/2 BPSK	1	1	22.75	22.83	22.73	24.5	0.0
100	P1/2 BPSK	1	137	22.69	22.76	22.60		
100	P1/2 BPSK	1	271	22.57	22.65	22.50		
100	P1/2 BPSK	136	0	22.78	22.82	22.72	24.5	0.0
100	P1/2 BPSK	136	69	22.83	22.86	22.72	24.5	0.0
100	P1/2 BPSK	136	138	22.65	22.70	22.51	24.5	0.0
100	P1/2 BPSK	270	0	22.99	22.83	22.60		
100	QPSK	1	1	22.86	22.93	22.76		
100	QPSK	1	137	22.71	22.80	22.69	24.5	0.0
100	QPSK	1	271	22.60	22.73	22.51		
100	QPSK	136	0	22.76	22.86	22.72		
100	QPSK	136	69	22.70	22.76	22.65	24.5	0.0
100	QPSK	136	138	22.50	22.63	22.54		
100	QPSK	270	0	22.81	22.83	22.74		
100	16QAM	1	1	22.78	22.81	22.78	24.5	0.0
100	16QAM	1	1	21.85	21.72	21.68	23.5	1.0
100	256QAM	1	1	19.50	19.64	19.30	21.5	3.0
Channel								
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	P1/2 BPSK	1	1	22.72	22.74	22.61	24.5	0.0
Channel								
Frequency (MHz)				648668	650000	653332	Tune-up limit (dBm)	MPR (dB)
60	P1/2 BPSK	1	1	22.73	22.69	22.64	24.5	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	P1/2 BPSK	1	1	22.63	22.74	22.66	24.5	0.0
Channel								
Frequency (MHz)				647698	650000	654332	Tune-up limit (dBm)	MPR (dB)
30	P1/2 BPSK	1	1	22.72	22.67	22.57	24.5	0.0
Channel								
Frequency (MHz)				647334	650000	654666	Tune-up limit (dBm)	MPR (dB)
20	P1/2 BPSK	1	1	22.73	22.71	22.60	24.5	0.0

Par27Q n77_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				639332	639998	640664		
100	P1/2 BPSK	1	1	22.81	22.76	22.70	24.5	0.0
100	P1/2 BPSK	1	137	22.75	22.70	22.60		
100	P1/2 BPSK	1	271	22.75	22.68	22.60		
100	P1/2 BPSK	136	0	22.88	22.86	22.78	24.5	0.0
100	P1/2 BPSK	136	69	22.83	22.85	22.78	24.5	0.0
100	P1/2 BPSK	136	138	22.67	22.73	22.57	24.5	0.0
100	P1/2 BPSK	270	0	22.73	22.73	22.73		
100	QPSK	1	1	22.83	22.83	22.83		
100	QPSK	1	137	22.75	22.75	22.75	24.5	0.0
100	QPSK	1	271	22.76	22.76	22.76		
100	QPSK	136	0	22.74	22.74	22.74		
100	QPSK	136	69	22.71	22.71	22.71	24.5	0.0
100	QPSK	136	138	22.74	22.74	22.74		
100	QPSK	270	0	22.82	22.82	22.82		
100	16QAM	1	1	22.82	22.82	22.82	24.5	0.0
100	16QAM	1	1	21.70	21.70	21.70	23.5	1.0
100	256QAM	1	1	19.69	19.69	19.69	21.5	3.0
Channel								
Frequency (MHz)				639668	639332	634000	Tune-up limit (dBm)	MPR (dB)
80	P1/2 BPSK	1	1	22.67	22.66	22.65	24.5	0.0
Channel								
Frequency (MHz)				639000	639332	634666	Tune-up limit (dBm)	MPR (dB)
60	P1/2 BPSK	1	1	22.66	22.67	22.67	24.5	0.0
Channel								
Frequency (MHz)				638334	639332	635332	Tune-up limit (dBm)	MPR (dB)
40	P1/2 BPSK	1	1	22.66	22.67	22.67	24.5	0.0
Channel								
Frequency (MHz)				637698	639332	635666	Tune-up limit (dBm)	MPR (dB)
30	P1/2 BPSK	1	1	22.66	22.62	22.62	24.5	0.0
Channel								
Frequency (MHz)				636668	639332	636000	Tune-up limit (dBm)	MPR (dB)
20	P1/2 BPSK	1	1	22.69	22.61	22.62	24.5	0.0



Par270 n77_FCC_Ant7

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	3750	3850	3950		
Frequency (MHz)					
100	PK2 BPSK	1	1	18.0	0.0
100	PK2 BPSK	1	137	18.0	0.0
100	PK2 BPSK	1	271	18.0	0.0
100	PK2 BPSK	135	0	18.0	0.0
100	PK2 BPSK	135	69	18.0	0.0
100	PK2 BPSK	135	138	18.0	0.0
100	PK2 BPSK	270	0	18.0	0.0
100	QPSK	1	1	18.0	0.0
100	QPSK	1	137	18.0	0.0
100	QPSK	1	271	18.0	0.0
100	QPSK	135	0	18.0	0.0
100	QPSK	135	69	18.0	0.0
100	QPSK	135	138	18.0	0.0
100	QPSK	270	0	18.0	0.0
100	16QAM	1	1	18.0	0.0
100	16QAM	1	1	17.0	0.0
100	256QAM	1	1	15.0	0.0
Channel	64934	65600	66266	Tune-up limit	MPR
Frequency (MHz)	7430.1	8340	3028.89	(dB)	
80	PK2 BPSK	1	1	19.0	0.0
Channel	64868	65600	66332	Tune-up limit	MPR
Frequency (MHz)	72032	8340	3028.88	(dB)	
60	PK2 BPSK	1	1	19.0	0.0
Channel	64800	65600	66400	Tune-up limit	MPR
Frequency (MHz)	3742	8340	3028.89	(dB)	
40	PK2 BPSK	1	1	19.0	0.0
Channel	64768	65600	66432	Tune-up limit	MPR
Frequency (MHz)	23132	3040.80	3028.88	(dB)	
30	PK2 BPSK	1	1	19.0	0.0
Channel	64734	65600	66466	Tune-up limit	MPR
Frequency (MHz)	23100	3040	3028.89	(dB)	
20	PK2 BPSK	1	1	18.0	0.0

Par27Q n77_FCC_Ant7

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	63332				
Frequency (MHz)					
100	PK2 BPSK	1	1	18.0	0.0
100	PK2 BPSK	1	137	18.0	0.0
100	PK2 BPSK	1	271	18.0	0.0
100	PK2 BPSK	135	0	18.0	0.0
100	PK2 BPSK	135	69	18.0	0.0
100	PK2 BPSK	135	138	18.0	0.0
100	PK2 BPSK	270	0	18.0	0.0
100	QPSK	1	1	18.0	0.0
100	QPSK	1	137	18.0	0.0
100	QPSK	1	271	18.0	0.0
100	QPSK	135	0	18.0	0.0
100	QPSK	135	69	18.0	0.0
100	QPSK	135	138	18.0	0.0
100	QPSK	270	0	18.0	0.0
100	16QAM	1	1	18.0	0.0
100	16QAM	1	1	17.0	0.0
100	256QAM	1	1	15.0	0.0
Channel	63268	63332	63400	Tune-up limit	MPR
Frequency (MHz)	340.12	3028.88	3742	(dB)	
80	PK2 BPSK	1	1	19.0	0.0
Channel	63200	63332	63466	Tune-up limit	MPR
Frequency (MHz)	3400	3028.88	3742.89	(dB)	
60	PK2 BPSK	1	1	19.0	0.0
Channel	63134	63332	63532	Tune-up limit	MPR
Frequency (MHz)	3470.01	3028.88	3742.88	(dB)	
40	PK2 BPSK	1	1	19.0	0.0
Channel	63100	63332	63566	Tune-up limit	MPR
Frequency (MHz)	3460	3028.88	3742.89	(dB)	
30	PK2 BPSK	1	1	19.0	0.0
Channel	63068	63332	63600	Tune-up limit	MPR
Frequency (MHz)	3450.02	3028.88	3742.89	(dB)	
20	PK2 BPSK	1	1	18.0	0.0



Full Power

n2_Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				1860	1860	1900			
20	P12 BPSK	1	1	24.84	24.85	24.92			
20	P12 BPSK	1	63	24.82	24.82	24.79	26.0	0.0	
20	P12 BPSK	1	104	24.81	24.82	24.74			
20	P12 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	P12 BPSK	50	28	24.12	24.84	24.79	26.0	0.0	
20	P12 BPSK	50	56	24.22	24.34	24.33	25.5	0.5	
20	P12 BPSK	100	0	24.27	24.36	24.29			
20	QPSK	1	1	24.96	24.91	24.92			
20	QPSK	1	63	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.96	24.91			
20	QPSK	50	0	23.76	23.79	23.76	25.0	1.0	
20	QPSK	50	28	24.80	24.86	24.78	26.0	0.0	
20	QPSK	50	56	23.70	23.81	23.89	25.0	1.0	
20	QPSK	100	0	23.12	23.84	23.79	25.0	1.0	
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0	
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.91	20.96	20.41	21.5	4.5	
Channel									
Frequency (MHz)									
				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
15	P12 BPSK	1	1	1867.5	1860	1900.5	26.0	0.0	
Channel									
Frequency (MHz)									
				375000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	P12 BPSK	1	1	1865	1860	1900	26.0	0.0	
Channel									
Frequency (MHz)									
				375000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	P12 BPSK	1	1	1862.5	1860	1907.5	26.0	0.0	

n2_Ant2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				1860	1860	1900			
20	P12 BPSK	1	1	24.84	24.85	24.92			
20	P12 BPSK	1	63	24.82	24.82	24.79	26.0	0.0	
20	P12 BPSK	1	104	24.81	24.82	24.74			
20	P12 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	P12 BPSK	50	28	24.12	24.84	24.79	26.0	0.0	
20	P12 BPSK	50	56	24.22	24.34	24.33	25.5	0.5	
20	P12 BPSK	100	0	24.27	24.36	24.29			
20	QPSK	1	1	24.96	24.91	24.92			
20	QPSK	1	63	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.96	24.91			
20	QPSK	50	0	23.76	23.79	23.76	25.0	1.0	
20	QPSK	50	28	24.80	24.86	24.78	26.0	0.0	
20	QPSK	50	56	23.70	23.81	23.89	25.0	1.0	
20	QPSK	100	0	23.12	23.84	23.79	25.0	1.0	
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0	
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.91	20.96	20.41	21.5	4.5	
Channel									
Frequency (MHz)									
				375000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
15	P12 BPSK	1	1	1867.5	1860	1900.5	26.0	0.0	
Channel									
Frequency (MHz)									
				375000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	P12 BPSK	1	1	1865	1860	1900	26.0	0.0	
Channel									
Frequency (MHz)									
				375000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	P12 BPSK	1	1	1862.5	1860	1907.5	26.0	0.0	



n2_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	P12 BPSK	1	1	22.61	22.62	22.52	23.5	0.0
20	P12 BPSK	1	83	22.56	22.63	22.53		
20	P12 BPSK	1	104	22.58	22.62	22.57		
20	P12 BPSK	50	0	22.05	22.18	22.13	23.0	0.5
20	P12 BPSK	50	28	22.05	22.06	22.54	23.5	0.0
20	P12 BPSK	50	56	22.05	22.10	22.01	23.0	0.5
20	P12 BPSK	100	0	22.16	22.17	22.10		
20	QPSK	1	1	22.73	22.70	22.75	23.5	0.0
20	QPSK	1	63	22.59	22.70	22.59		
20	QPSK	1	104	22.59	22.65	22.59		
20	QPSK	50	0	21.98	21.69	21.56	22.5	1.0
20	QPSK	50	28	22.60	22.64	22.63	23.5	0.0
20	QPSK	50	56	21.59	21.62	21.61	22.5	1.0
20	QPSK	100	0	21.56	21.63	21.62		
20	16QAM	1	1	21.69	21.78	21.64	22.5	1.0
20	64QAM	1	1	20.29	20.34	20.32	21.0	2.5
20	256QAM	1	1	17.95	18.05	18.04	19.0	4.5
Channel				375000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1867.5	1860	1907.5	(dBm)	(dB)
15	P12 BPSK	1	1	22.55	22.64	22.54	23.5	0.0
Channel				375000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1865	1860	1900	(dBm)	(dB)
10	P12 BPSK	1	1	22.57	22.64	22.54	23.5	0.0
Channel				375000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1862.5	1860	1907.5	(dBm)	(dB)
5	P12 BPSK	1	1	22.54	22.62	22.58	23.5	0.0

n5_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								
Frequency (MHz)				834	836.5	839		
20	P12 BPSK	1	1	24.49	24.61	24.43	26.0	0.0
20	P12 BPSK	1	83	24.32	24.46	24.32		
20	P12 BPSK	1	104	24.49	24.55	24.46		
20	P12 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	P12 BPSK	50	28	24.46	24.53	24.41	26.0	0.0
20	P12 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	P12 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.60	26.0	0.0
20	QPSK	1	63	24.58	24.66	24.57		
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33		
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				169300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.55	24.64	24.60	25.0	0.0
Channel				169300	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	P12 BPSK	1	1	24.56	24.63	24.50	25.0	0.0
Channel				169300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.56	24.61	24.60	26.0	0.0



n5_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				168600	167300	167900		
				834	836.5	839		
20	P12 BPSK	1	1	24.49	24.41	24.43	26.0	0.0
20	P12 BPSK	1	83	24.32	24.55	24.32		
20	P12 BPSK	1	104	24.49	24.55	24.46		
20	P12 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	P12 BPSK	50	28	24.46	24.53	24.41	25.0	0.0
20	P12 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	P12 BPSK	100	0	23.91	23.95	23.88	25.0	0.0
20	QPSK	1	1	24.53	24.71	24.60	26.0	0.0
20	QPSK	1	63	24.58	24.66	24.57		
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	25.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33	25.0	1.0
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	P12 BPSK	1	1	24.55	24.64	24.60	23.0	0.0
Channel				168900	167300	168900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	P12 BPSK	1	1	24.55	24.63	24.59	25.0	0.0
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	P12 BPSK	1	1	24.56	24.61	24.63	26.0	0.0

n7_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)				505000	507000	510000		
				2510	2535	2560		
20	P12 BPSK	1	1	24.86	24.95	24.94	26.0	0.0
20	P12 BPSK	1	83	24.81	24.91	24.86		
20	P12 BPSK	1	104	24.84	24.93	24.87		
20	P12 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	P12 BPSK	50	28	24.32	24.39	24.33	25.0	0.0
20	P12 BPSK	50	56	24.36	24.45	24.36	25.5	0.5
20	P12 BPSK	100	0	24.30	24.43	24.34	25.0	0.0
20	QPSK	1	1	24.96	24.97	24.91	26.0	0.0
20	QPSK	1	63	24.82	24.91	24.90		
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	25.0	1.0
20	QPSK	50	28	24.85	24.91	24.86	25.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	25.0	1.0
20	QPSK	100	0	23.86	23.96	23.82	25.0	1.0
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel				503000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2567.5		
15	P12 BPSK	1	1	24.81	24.90	24.87	23.0	0.0
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	P12 BPSK	1	1	24.74	24.86	24.87	25.0	0.0
Channel				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	P12 BPSK	1	1	24.75	24.82	24.84	26.0	0.0



n7_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				500000	507000	515000		
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	24.86	24.86	24.94	26.0	0.0
20	PI2 BPSK	1	83	24.81	24.91	24.89		
20	PI2 BPSK	1	104	24.84	24.93	24.87		
20	PI2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	PI2 BPSK	50	29	24.32	24.59	24.33	25.0	0.0
20	PI2 BPSK	50	56	24.36	24.45	24.36	25.5	0.5
20	PI2 BPSK	100	0	24.30	24.43	24.34	25.0	0.0
20	QPSK	1	1	24.96	24.97	24.91	26.0	0.0
20	QPSK	1	63	24.82	24.91	24.90		
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	25.0	1.0
20	QPSK	50	28	24.85	24.91	24.85	25.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	25.0	1.0
20	QPSK	100	0	23.86	23.96	23.83	25.0	1.0
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel				501000	507000	515000	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.81	24.90	24.87	25.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2495	2535	2580	(dBm)	(dB)
10	PI2 BPSK	1	1	24.74	24.85	24.87	25.0	0.0
Channel				500000	507000	515000	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0

n12_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	141600	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.30	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.25	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	25.0	0.0
15	PI2 BPSK	36	43	23.89	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74	25.0	0.0
15	QPSK	1	1	24.33	24.40	24.35	26.0	0.0
15	QPSK	1	40	24.29	24.36	24.31		
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.92	23.93	23.93	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	25.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	75	0	23.21	23.26	23.25	25.0	1.0
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel				140900	141000	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	PI2 BPSK	1	1	24.72	24.84	24.82	25.0	0.0
Channel				140300	141000	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.27	24.36	24.26	26.0	0.0



n12_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				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.26	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.89	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74	26.0	0.0
15	QPSK	1	1	24.33	24.45	24.35	26.0	0.0
15	QPSK	1	40	24.29	24.36	24.31		
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.92	23.93	23.93	26.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.26	23.23	26.0	1.0
15	16QAM	1	1	23.09	23.78	23.07	25.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel				149800	141000	142200	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	PI2 BPSK	1	1	24.22	24.34	24.23	23.0	0.0
Channel				149300	141000	142700	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.27	24.35	24.26	26.0	0.0

n25_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	373500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	24.87	24.88	24.85	26.0	0.0
20	PI2 BPSK	1	83	24.73	24.79	24.70		
20	PI2 BPSK	1	104	24.75	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	PI2 BPSK	50	26	24.72	24.81	24.79	26.0	0.0
20	PI2 BPSK	50	56	24.19	24.31	24.25	25.5	0.5
20	PI2 BPSK	100	0	24.30	24.33	24.26	26.0	0.0
20	QPSK	1	1	24.91	25.01	24.93	26.0	0.0
20	QPSK	1	63	24.84	24.95	24.81		
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.98	26.0	1.0
20	QPSK	50	26	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	26.0	1.0
20	QPSK	100	0	24.05	24.11	24.05	26.0	1.0
20	16QAM	1	1	23.94	24.05	24.03	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.26	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel				371500	376500	381500	Tune-up limit	MPR
Frequency (MHz)				1867.5	1882.5	1907.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.79	24.87	24.83	23.0	0.0
Channel				371000	376000	380000	Tune-up limit	MPR
Frequency (MHz)				1865	1882.5	1910	(dBm)	(dB)
10	PI2 BPSK	1	1	24.83	24.88	24.85	23.0	0.0
Channel				370500	376500	382500	Tune-up limit	MPR
Frequency (MHz)				1862.5	1882.5	1912.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.76	24.86	24.80	26.0	0.0



n25_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
				1860	1882.5	1905		
20	P12 BPSK	1	1	24.87	24.88	24.85		
20	P12 BPSK	1	83	24.75	24.79	24.70	26.0	0.0
20	P12 BPSK	1	104	24.75	24.84	24.74		
20	P12 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	P12 BPSK	50	28	24.72	24.81	24.79	25.0	0.0
20	P12 BPSK	50	56	24.19	24.31	24.25	25.5	0.5
20	P12 BPSK	100	0	24.30	24.33	24.26		
20	QPSK	1	1	24.91	24.91	24.83		
20	QPSK	1	63	24.84	24.95	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.88	25.0	1.0
20	QPSK	50	28	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	25.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.94	24.05	24.03	25.0	1.0
20	64QAM	1	1	22.30	22.33	22.26	23.5	2.5
20	256QAM	1	1	20.40	20.63	20.59	21.5	4.5
Channel								
Frequency (MHz)								
				37500	37600	38150	Tune-up limit (dBm)	MRR (dB)
15	P12 BPSK	1	1	1867.5	1882.5	1907.5		
15	P12 BPSK	1	1	23.70	24.87	24.87	23.0	0.0
Channel								
Frequency (MHz)								
				37500	37600	38000	Tune-up limit (dBm)	MRR (dB)
10	P12 BPSK	1	1	1865	1882.5	1910		
10	P12 BPSK	1	1	24.83	24.83	24.85	25.0	0.0
Channel								
Frequency (MHz)								
				1862.5	1882.5	1912.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.76	24.86	24.85	26.0	0.0

n25_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
				1860	1882.5	1905		
20	P12 BPSK	1	1	22.47	22.51	22.45		
20	P12 BPSK	1	83	22.44	22.49	22.47	23.5	0.0
20	P12 BPSK	1	104	22.40	22.52	22.45		
20	P12 BPSK	50	0	22.00	22.09	21.97	23.0	0.5
20	P12 BPSK	50	28	22.43	22.56	22.43	23.5	0.0
20	P12 BPSK	50	56	22.00	22.06	21.93	23.0	0.5
20	P12 BPSK	100	0	22.11	22.13	22.12		
20	QPSK	1	1	22.52	22.62	22.52		
20	QPSK	1	63	22.42	22.51	22.45	23.5	0.0
20	QPSK	1	104	22.42	22.53	22.43		
20	QPSK	50	0	21.87	21.95	21.82	22.5	1.0
20	QPSK	50	28	22.44	22.50	22.49	23.5	0.0
20	QPSK	50	56	21.47	21.56	21.44	22.5	1.0
20	QPSK	100	0	21.66	21.69	21.59		
20	16QAM	1	1	21.58	21.59	21.54	22.5	1.0
20	64QAM	1	1	20.16	20.24	20.19	21.0	2.5
20	256QAM	1	1	18.03	18.16	18.07	19.0	4.5
Channel								
Frequency (MHz)								
				37500	37600	38150	Tune-up limit (dBm)	MRR (dB)
15	P12 BPSK	1	1	1867.5	1882.5	1907.5		
15	P12 BPSK	1	1	22.50	22.48	22.43	23.5	0.0
Channel								
Frequency (MHz)								
				37500	37600	38000	Tune-up limit (dBm)	MRR (dB)
10	P12 BPSK	1	1	1865	1882.5	1910		
10	P12 BPSK	1	1	22.55	22.50	22.40	23.5	0.0
Channel								
Frequency (MHz)								
				1862.5	1882.5	1912.5	(dBm)	(dB)
5	P12 BPSK	1	1	22.36	22.44	22.44	23.5	0.0



n26_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								
Frequency (MHz)				156800	169300	181900		
				824	831.5	839		
20	P12 BPSK	1	1	24.46	24.43	24.50		
20	P12 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	P12 BPSK	1	104	24.42	24.45	24.41		
20	P12 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	P12 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	P12 BPSK	50	56	23.85	23.87	23.77	25.5	0.5
20	P12 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	63	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.53	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	26.0	1.0
20	QPSK	100	0	23.36	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	26.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				164300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.35	24.43	24.40	23.0	0.0
Channel				163800	169300	168800	Tune-up limit	MPR
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	P12 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel				163300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.37	24.42	24.30	26.0	0.0

n26_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq	Power Middle Ch./ Freq	Power High Ch./ Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				156800	169300	181900		
				824	831.5	839		
20	P12 BPSK	1	1	24.46	24.43	24.50		
20	P12 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	P12 BPSK	1	104	24.42	24.45	24.41		
20	P12 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	P12 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	P12 BPSK	50	56	23.85	23.87	23.77	25.5	0.5
20	P12 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	63	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.53	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	26.0	1.0
20	QPSK	100	0	23.36	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	26.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				164300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.35	24.43	24.40	23.0	0.0
Channel				163800	169300	168800	Tune-up limit	MPR
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	P12 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel				163300	169300	169300	Tune-up limit	MPR
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.37	24.42	24.30	26.0	0.0



n30_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)								
				462000	2310			
10	PI2 BPSK	1	1	21.29			22.5	0.0
10	PI2 BPSK	1	25	21.30				
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.21				
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			18.0	4.5
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	21.33	2310	2312.5	22.5	0.0

n30_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				462000	2310			
10	PI2 BPSK	1	1	21.29			22.5	0.0
10	PI2 BPSK	1	25	21.30				
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.21				
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			18.0	4.5
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	21.33	2310	2312.5	22.5	0.0



n30_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq	Power Middle Ch./ Freq	Power High Ch./ Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				462000	2310			
10	P12 BPSK	1	1	21.84			23.5	0.0
10	P12 BPSK	1	25	21.96				
10	P12 BPSK	1	50	21.84				
10	P12 BPSK	25	0	21.36			23.0	0.5
10	P12 BPSK	25	14	21.84			23.5	0.0
10	P12 BPSK	25	27	21.36			23.0	0.5
10	P12 BPSK	50	0	21.36				
10	QPSK	1	1	21.90				
10	QPSK	1	25	21.90			23.5	0.0
10	QPSK	1	50	21.85				
10	QPSK	25	0	20.82			22.5	1.0
10	QPSK	25	14	21.85			23.5	0.0
10	QPSK	25	27	20.84			22.5	1.0
10	QPSK	50	0	20.86				
10	16QAM	1	1	21.07			22.5	1.0
10	64QAM	1	1	19.33			21.0	2.5
10	256QAM	1	1	17.23			19.0	4.5
Channel								
Frequency (MHz)								
				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
5	P12 BPSK	1	1	21.92	2310	2312.5	23.5	0.0

n66_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)								
				345000	1725	1745		
30	P12 BPSK	1	1	24.89	24.81	24.89		
30	P12 BPSK	1	80	24.95	24.75	24.83	26.0	0.0
30	P12 BPSK	1	156	24.75	24.79	24.68		
30	P12 BPSK	80	0	24.16	24.22	24.13		
30	P12 BPSK	80	40	24.61	24.74	24.73	25.5	0.5
30	P12 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	P12 BPSK	160	0	24.09	24.16	24.13		
30	QPSK	1	1	24.96	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	156	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.75	23.75		
30	QPSK	80	40	24.73	24.85	24.77	25.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.66	23.66		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel								
Frequency (MHz)								
				344500	345000	345500	Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	1720	1745	1770	23.0	0.0
Channel								
Frequency (MHz)								
				343500	345000	345500	Tune-up limit (dBm)	MPR (dB)
15	P12 BPSK	1	1	1717.5	1745	1772.5	23.0	0.0
Channel								
Frequency (MHz)								
				343000	345000	345500	Tune-up limit (dBm)	MPR (dB)
10	P12 BPSK	1	1	1715	1745	1775	23.0	0.0
Channel								
Frequency (MHz)								
				34277.5	34477.5	345500	Tune-up limit (dBm)	MPR (dB)
5	P12 BPSK	1	1	1712.5	1745	1777.5	26.0	0.0



n66_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				345000	349000	353000		
				1725	1745	1765		
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.81	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	PI2 BPSK	150	0	24.09	24.16	24.13		
30	QPSK	1	1	24.96	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.75	23.76	26.0	1.0
30	QPSK	80	40	24.73	24.85	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	150	0	23.81	23.68	23.68		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.23	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	24.76	24.73	24.71	23.0	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	24.50	24.42	24.65	24.0	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	24.77	24.61	24.70	26.0	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				345000	349000	353000		
				1725	1745	1765		
30	PI2 BPSK	1	1	22.06	22.18	22.11		
30	PI2 BPSK	1	80	22.17	22.20	22.07	23.5	0.0
30	PI2 BPSK	1	158	21.90	22.02	21.99		
30	PI2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	PI2 BPSK	80	40	22.11	22.23	22.18	23.5	0.0
30	PI2 BPSK	80	80	21.88	21.70	21.57	23.0	0.5
30	PI2 BPSK	150	0	21.64	21.67	21.64		
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.06	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.06		
30	QPSK	80	0	21.13	21.25	21.12	22.5	1.0
30	QPSK	80	40	22.18	22.23	22.15	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	150	0	21.16	21.27	21.18		
30	16QAM	1	1	21.38	21.45	21.30	22.5	1.0
30	64QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.68	17.81	17.66	19.0	4.5
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	22.10	22.13	21.90	23.5	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	22.02	22.16	22.02	23.5	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel				345000	349000	345000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_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								
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	24.71	24.74	24.70		0.0
20	P12 BPSK	1	53	24.66	24.67	24.63	26.0	0.0
20	P12 BPSK	1	104	24.66	24.71	24.66		
20	P12 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	P12 BPSK	50	75	24.50	24.59	24.69	26.0	0.0
20	P12 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	P12 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.63	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.64	24.59	24.58		
20	QPSK	50	0	23.67	23.74	23.81	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.52	23.60	23.57		
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel				134100	134100	134100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.43	24.41	24.51	25.0	0.0
Channel				133600	134100	133600	Tune-up limit	MPR
Frequency (MHz)				668	680.5	693	(dBm)	(dB)
10	P12 BPSK	1	1	24.62	24.53	24.52	26.0	0.0
Channel				133100	134100	133100	Tune-up limit	MPR
Frequency (MHz)				665.5	680.5	690.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.40	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				673	680.5	688		
20	P12 BPSK	1	1	24.71	24.74	24.70		0.0
20	P12 BPSK	1	53	24.66	24.67	24.63	26.0	0.0
20	P12 BPSK	1	104	24.66	24.71	24.66		
20	P12 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	P12 BPSK	50	75	24.50	24.59	24.69	26.0	0.0
20	P12 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	P12 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.63	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.64	24.59	24.58		
20	QPSK	50	0	23.67	23.74	23.81	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.52	23.60	23.57		
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel				134100	134100	134100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)
15	P12 BPSK	1	1	24.43	24.41	24.51	25.0	0.0
Channel				133600	134100	133600	Tune-up limit	MPR
Frequency (MHz)				668	680.5	693	(dBm)	(dB)
10	P12 BPSK	1	1	24.62	24.53	24.52	26.0	0.0
Channel				133100	134100	133100	Tune-up limit	MPR
Frequency (MHz)				665.5	680.5	690.5	(dBm)	(dB)
5	P12 BPSK	1	1	24.40	24.54	24.53	26.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2555.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2555.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.83		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.83		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				6370.98	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				6323.24	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				6311.68	641666	642165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				6300.00	641666	642332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				6370.98	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				6323.24	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				6311.68	641666	642165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				6300.00	641666	642332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
3333.92								
3499.98								
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	25.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	25.0	0.0
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	133	133	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
6330.00								
3495								
3333.12								
3504.99								
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
6330.00								
3495.02								
3333.12								
3504.99								
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
6330.00								
3480								
3333.12								
3504.98								
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
6330.00								
3475.02								
3333.12								
3504.98								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
6333.34								
3470.01								
3499.98								
3529.98								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
6310.00								
3465								
3333.12								
3504.98								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
6309.68								
3460.02								
3499.98								
3540								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
3333.92								
3499.98								
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.5	0.0
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	26.5	1.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	133	133	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
6330.00								
3495								
3333.12								
3504.99								
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
6330.00								
3490.02								
3499.98								
3510								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
6330.00								
3480								
3333.12								
3504.98								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
6330.00								
3475.02								
3333.12								
3504.98								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
6333.34								
3470.01								
3499.98								
3529.98								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
6310.00								
3465								
3333.12								
3504.98								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
6309.68								
3460.02								
3499.98								
3540								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	85000	85232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85000	85266	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01		
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92		
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95		
100	QPSK	138	138	25.70	25.76	25.68	27.5	0.0
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	85000	85232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85000	85266	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	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)	MFR (dB)
Channel								
Frequency (MHz)				3333.2			3499.98	
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	138	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	138	69	24.31	24.31	24.31	25.0	0.0
100	PI2 BPSK	138	138	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	25.0	0.0
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	138	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	138	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	138	138	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel				633000	3333.2	633668	1348	
Frequency (MHz)				3495	3499.98	3504.99	1348	
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel				632668	3333.2	633000	1348	
Frequency (MHz)				3490.02	3499.98	3510	1348	
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel				632000	3333.2	633668	1348	
Frequency (MHz)				3480	3499.98	3519.99	1348	
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel				631168	3333.2	633000	1348	
Frequency (MHz)				3475.02	3499.98	3524	1348	
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel				630300	3333.2	633392	1348	
Frequency (MHz)				3470.01	3499.98	3529.98	1348	
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel				631000	3333.2	633668	1348	
Frequency (MHz)				3465	3499.98	3534.99	1348	
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel				630668	3333.2	630000	1348	
Frequency (MHz)				3460.02	3499.98	3540	1348	
20	PI2 BPSK	1	1	24.21	24.23	24.27	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)	MFR (dB)
Channel								
Frequency (MHz)				3333.2			3499.98	
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.5	0.0
100	PI2 BPSK	138	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	138	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	26.5	1.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	138	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	138	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	138	138	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel				633000	3333.2	633668	1348	
Frequency (MHz)				3495	3499.98	3504.99	1348	
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel				632668	3333.2	633000	1348	
Frequency (MHz)				3490.02	3499.98	3510	1348	
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel				632000	3333.2	633668	1348	
Frequency (MHz)				3480	3499.98	3519.99	1348	
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel				631168	3333.2	633000	1348	
Frequency (MHz)				3475.02	3499.98	3524	1348	
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel				630300	3333.2	633392	1348	
Frequency (MHz)				3470.01	3499.98	3529.98	1348	
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel				631000	3333.2	633668	1348	
Frequency (MHz)				3465	3499.98	3534.99	1348	
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel				630668	3333.2	630000	1348	
Frequency (MHz)				3460.02	3499.98	3540	1348	
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01		
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	26.08	26.01	26.06	27.0	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92		
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95		
100	QPSK	138	138	25.70	25.76	25.68	27.5	0.0
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.89	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42	25.99		
100	PI2 BPSK	1	137	3499.98	24.41	26.00	26.0	0.0
100	PI2 BPSK	1	271	3499.98	24.45	26.03		
100	PI2 BPSK	138	0	3499.98	23.93	25.51	25.5	0.5
100	PI2 BPSK	138	69	3499.98	24.31	25.96	26.0	0.0
100	PI2 BPSK	138	138	3499.98	24.15	25.50	25.5	0.5
100	PI2 BPSK	270	0	3499.98	24.01	25.46		
100	QPSK	1	1	3499.98	24.53	26.11		
100	QPSK	1	137	3499.98	24.28	26.05	26.0	0.0
100	QPSK	1	271	3499.98	24.32	26.04		
100	QPSK	138	0	3499.98	24.14	25.98		
100	QPSK	138	69	3499.98	24.59	26.08	26.0	0.0
100	QPSK	138	138	3499.98	24.26	25.84	27.5	0.0
100	QPSK	270	0	3499.98	23.62	25.01		
100	16QAM	1	1	3499.98	23.66	25.0	25.0	1.0
100	16QAM	1	1	3499.98	21.81	23.5	23.5	2.5
100	256QAM	1	1	3499.98	19.83	21.5	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3499.98	3333.12	3499.98	3499.98	3499.98
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3499.98	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3499.98	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3499.98	24.20	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3499.98	24.28	24.24	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0

Par27Q n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42	25.99		
100	PI2 BPSK	1	137	3499.98	24.41	26.00	27.5	0.0
100	PI2 BPSK	1	271	3499.98	24.45	26.03		
100	PI2 BPSK	138	0	3499.98	23.93	25.51	27.0	0.5
100	PI2 BPSK	138	69	3499.98	24.31	25.96	27.5	0.0
100	PI2 BPSK	138	138	3499.98	24.15	25.50	27.0	0.5
100	PI2 BPSK	270	0	3499.98	24.01	25.46		
100	QPSK	1	1	3499.98	24.53	26.11		
100	QPSK	1	137	3499.98	24.28	26.05	27.5	0.0
100	QPSK	1	271	3499.98	24.32	26.04		
100	QPSK	138	0	3499.98	24.14	25.98		
100	QPSK	138	69	3499.98	24.59	26.08	27.5	0.0
100	QPSK	138	138	3499.98	24.26	25.84		
100	QPSK	270	0	3499.98	23.62	25.01	26.5	1.0
100	16QAM	1	1	3499.98	23.66	25.0	26.5	1.0
100	16QAM	1	1	3499.98	21.81	23.5	26.0	2.5
100	256QAM	1	1	3499.98	19.83	21.5	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3499.98	3333.12	3499.98	3499.98	3499.98
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3499.98	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3499.98	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3499.98	24.20	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3499.98	24.28	24.24	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3499.98	24.21	24.23	26.0	0.0



Par270 n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	133	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	133	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	133	133	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	133	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	133	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	133	133	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	26.0	0.0
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	26.0	0.0
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	26.0	0.0
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	26.0	0.0
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84768	86000	86400	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3840.00	26.0	0.0
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84768	86000	86400	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3849.99	26.0	0.0
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	133	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	133	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	133	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	133	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	133	133	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	27.5	0.0
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	27.5	0.0
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	27.5	0.0
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	27.5	0.0
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84768	86000	86400	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3840.00	27.5	0.0
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84768	86000	86400	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3849.99	27.5	0.0
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.42	24.42			
100	PI2 BPSK	1	137	24.41	24.41		26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45			
100	PI2 BPSK	135	0	23.93	23.93		25.5	0.5
100	PI2 BPSK	135	66	24.31	24.31		26.0	0.0
100	PI2 BPSK	135	138	24.15	24.15		25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01			
100	QPSK	1	1	24.53	24.53			
100	QPSK	1	137	24.26	24.26		26.0	0.0
100	QPSK	1	271	24.32	24.32			
100	QPSK	135	0	24.14	24.14		26.0	0.0
100	QPSK	135	66	24.39	24.39			
100	QPSK	135	138	24.26	24.26		26.0	0.0
100	QPSK	270	0	23.62	23.62		25.0	1.0
100	64QAM	1	1	23.96	23.96		26.0	1.0
100	64QAM	1	1	21.81	21.81		23.5	2.5
100	256QAM	1	1	19.83	19.83		21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.99	25.99			
100	PI2 BPSK	1	137	26.00	26.00		27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03			
100	PI2 BPSK	135	0	25.51	25.51		27.0	0.5
100	PI2 BPSK	135	66	25.96	25.96		27.0	0.0
100	PI2 BPSK	135	138	25.50	25.50		27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46			
100	QPSK	1	1	26.11	26.11			
100	QPSK	1	137	26.06	26.06		27.5	0.0
100	QPSK	1	271	26.04	26.04			
100	QPSK	135	0	25.98	25.98		27.5	0.0
100	QPSK	135	66	26.08	26.08			
100	QPSK	135	138	25.94	25.94		27.5	0.0
100	QPSK	270	0	24.91	24.91		26.5	1.0
100	64QAM	1	1	24.96	24.96		26.5	1.0
100	64QAM	1	1	23.64	23.64		25.0	2.5
100	256QAM	1	1	21.31	21.31		23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.82	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.50	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



State 6 Power

n2_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				375000	376000	380000		
Frequency (MHz)				1850	1850	1900		
20	PI2 BPSK	1	1	24.54	24.55	24.92		
20	PI2 BPSK	1	53	24.82	24.92	24.78	26.0	0.0
20	PI2 BPSK	1	104	24.81	24.92	24.74		
20	PI2 BPSK	50	0	24.96	24.99	24.26	25.5	0.5
20	PI2 BPSK	50	25	24.72	24.84	24.75	25.0	0.0
20	PI2 BPSK	50	56	24.22	24.34	24.33	25.5	0.5
20	PI2 BPSK	100	0	24.27	24.36	24.29		
20	QPSK	1	1	24.95	25.01	24.92		
20	QPSK	1	53	24.92	24.93	24.88	26.0	0.0
20	QPSK	1	104	24.92	24.96	24.91		
20	QPSK	50	0	23.76	23.79	23.75	25.0	1.0
20	QPSK	50	25	24.80	24.86	24.78	26.0	0.0
20	QPSK	50	56	23.70	23.81	23.89	25.0	1.0
20	QPSK	100	0	23.72	23.84	23.79		
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5
20	256QAM	1	1	20.91	20.95	20.41	21.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1827.5	1850	1907.5	(dBm)	
15	PI2 BPSK	1	1	24.83	24.91	24.83	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1855	1850	1905	(dBm)	
10	PI2 BPSK	1	1	24.54	24.54	24.83	25.0	0.0
Channel				375000	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1862.5	1850	1907.5	(dBm)	
5	PI2 BPSK	1	1	24.91	24.97	24.90	26.0	0.0

n2_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				375000	376000	380000		
Frequency (MHz)				1850	1850	1900		
20	PI2 BPSK	1	1	24.54	24.55	24.92		
20	PI2 BPSK	1	53	24.82	24.92	24.78	26.0	0.0
20	PI2 BPSK	1	104	24.81	24.92	24.74		
20	PI2 BPSK	50	0	24.96	24.99	24.26	25.5	0.5
20	PI2 BPSK	50	25	24.72	24.84	24.75	25.0	0.0
20	PI2 BPSK	50	56	24.22	24.34	24.33	25.5	0.5
20	PI2 BPSK	100	0	24.27	24.36	24.29		
20	QPSK	1	1	24.95	25.01	24.92		
20	QPSK	1	53	24.92	24.93	24.88	26.0	0.0
20	QPSK	1	104	24.92	24.96	24.91		
20	QPSK	50	0	23.76	23.79	23.75	25.0	1.0
20	QPSK	50	25	24.80	24.86	24.78	26.0	0.0
20	QPSK	50	56	23.70	23.81	23.89	25.0	1.0
20	QPSK	100	0	23.72	23.84	23.79		
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5
20	256QAM	1	1	20.91	20.95	20.41	21.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1827.5	1850	1907.5	(dBm)	
15	PI2 BPSK	1	1	24.83	24.91	24.83	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1855	1850	1905	(dBm)	
10	PI2 BPSK	1	1	24.54	24.54	24.83	25.0	0.0
Channel				375000	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1862.5	1850	1907.5	(dBm)	
5	PI2 BPSK	1	1	24.91	24.97	24.90	26.0	0.0



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
20	PI2 BPSK	1	1	19.94	20.07	20.00		
20	PI2 BPSK	1	53	19.92	20.03	20.01	21.0	0.0
20	PI2 BPSK	1	104	19.96	20.01	20.00		
20	PI2 BPSK	50	0	19.95	19.98	19.97	21.0	0.0
20	PI2 BPSK	50	25	19.97	19.96	19.91	21.0	0.0
20	PI2 BPSK	50	56	19.88	19.97	19.84	21.0	0.0
20	PI2 BPSK	100	0	19.93	19.96	19.96		
20	QPSK	1	1	20.13	20.18	20.14		
20	QPSK	1	53	20.11	20.12	20.08	21.0	0.0
20	QPSK	1	104	20.01	20.03	19.98		
20	QPSK	50	0	19.90	19.94	19.89	21.0	0.0
20	QPSK	50	25	19.88	19.96	19.88	21.0	0.0
20	QPSK	50	56	19.87	19.89	19.82	21.0	0.0
20	QPSK	100	0	19.81	19.84	19.85		
20	16QAM	1	1	19.77	19.87	19.86	21.0	0.0
20	64QAM	1	1	19.91	19.94	19.86	21.0	0.0
20	256QAM	1	1	17.97	18.07	18.01	19.0	2.0
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	19.75	19.0	19.075	(dBm)	(dB)
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				1855	1860	1900	(dBm)	(dB)
Channel								
Frequency (MHz)				376500	376000	381500	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)
5	PI2 BPSK	1	1	19.83	19.86	19.82	21.0	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	24.49	24.51	24.43		
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.49	24.55	24.46		
20	PI2 BPSK	50	0	23.99	24.02	24.00	26.5	0.5
20	PI2 BPSK	50	25	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	26.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.69		
20	QPSK	1	53	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.48		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	25	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.39	23.46	23.33		
20	16QAM	1	1	23.55	23.58	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	18.90	20.03	20.02	21.5	4.5
Channel								
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.55	24.61	24.60	25.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.55	24.61	24.60	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	24.49	24.51	24.43		
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.49	24.55	24.46		
20	PI2 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	25	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.53	24.71	24.60		
20	QPSK	1	53	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.45		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	25	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.30	23.46	23.33		
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel								
Frequency (MHz)				168300	167300	168300	Tune-up limit (dBm)	MPR
15	PI2 BPSK	1	1	24.15	24.15	24.15	25.0	0.0
Channel								
Frequency (MHz)				168800	167300	168800	Tune-up limit (dBm)	MPR
10	PI2 BPSK	1	1	24.59	24.59	24.4	25.0	0.0
Channel								
Frequency (MHz)				169300	167300	169300	Tune-up limit (dBm)	MPR
5	PI2 BPSK	1	1	24.55	24.63	24.50	25.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				500000	507000	510000		
20	PI2 BPSK	1	1	24.56	24.56	24.54		
20	PI2 BPSK	1	53	24.81	24.81	24.82	26.0	0.0
20	PI2 BPSK	1	104	24.84	24.93	24.87		
20	PI2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	PI2 BPSK	50	25	24.32	24.39	24.33	26.0	0.0
20	PI2 BPSK	50	56	24.36	24.46	24.36		
20	PI2 BPSK	100	0	24.30	24.43	24.34		
20	QPSK	1	1	24.96	24.97	24.91		
20	QPSK	1	53	24.82	24.91	24.90	26.0	0.0
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	25.0	1.0
20	QPSK	50	25	24.85	24.91	24.86	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	25.0	1.0
20	QPSK	100	0	23.88	23.95	23.83		
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR
15	PI2 BPSK	1	1	24.81	24.80	24.82	25.0	0.0
Channel								
Frequency (MHz)				501000	507000	510000	Tune-up limit (dBm)	MPR
10	PI2 BPSK	1	1	24.74	24.88	24.87	25.0	0.0
Channel								
Frequency (MHz)				500500	507000	510500	Tune-up limit (dBm)	MPR
5	PI2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 500000	Middle Ch. Freq. 507000	High Ch. Freq. 510000		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.38	19.44	19.32	20.5	0.0
20	PI2 BPSK	1	63	19.26	19.33	19.32		
20	PI2 BPSK	1	104	19.21	19.31	19.19		
20	PI2 BPSK	50	0	19.33	19.39	19.41	20.5	0.0
20	PI2 BPSK	50	26	19.27	19.31	19.18	20.5	0.0
20	PI2 BPSK	50	56	19.28	19.36	19.25	20.5	0.0
20	PI2 BPSK	100	0	19.38	19.42	19.31	20.5	0.0
20	QPSK	1	1	19.34	19.54	19.22		
20	QPSK	1	63	19.30	19.36	19.23		
20	QPSK	1	104	19.26	19.28	19.23	20.5	0.0
20	QPSK	50	0	19.34	19.42	19.40	20.5	0.0
20	QPSK	50	26	19.32	19.41	19.34	20.5	0.0
20	QPSK	50	56	19.25	19.33	19.24	20.5	0.0
20	QPSK	100	0	19.30	19.35	19.32	20.5	0.0
20	16QAM	1	1	19.35	19.38	19.33		
20	64QAM	1	1	19.20	19.29	19.17		
20	256QAM	1	1	19.23	19.28	19.26	20.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	501600	507000	512500	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	501000	507000	510000	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	2505	2535	2565	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	500000	507000	510000	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	2502.5	2535	2567.5	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	19.22	19.38	19.20	20.5	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141300	Middle Ch. Freq. 141500	High Ch. Freq. 141700		
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.30	24.39	24.30	26.0	0.0
15	PI2 BPSK	1	40	24.25	24.32	24.22		
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.69	23.78	23.75	26.5	0.5
15	PI2 BPSK	72	0	23.62	23.75	23.74	26.0	0.0
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31		
15	QPSK	1	77	24.30	24.43	24.30	25.0	1.0
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	72	0	23.21	23.25	23.23	26.0	1.0
15	16QAM	1	1	23.69	23.78	23.07		
15	64QAM	1	1	21.55	21.59	21.61		
15	256QAM	1	1	20.16	20.21	20.14	23.5	2.5
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	140800	141500	142200	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	140200	141500	142700	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	703.5	707.5	713.5	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	24.27	24.35	24.30	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				141900	141900	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		
15	PI2 BPSK	1	40	24.26	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.69	23.78	23.75	26.5	0.5
15	PI2 BPSK	79	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.35	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.29	25.0	1.0
15	QPSK	75	0	23.21	23.25	23.23		
15	16QAM	1	1	23.09	23.18	23.07	26.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.16	20.21	20.14	21.5	4.5
Channel				140800	141000	142000	Tune-up limit (dBm)	MRR
Frequency (MHz)				704	707.5	711	(dB)	(dB)
10	PI2 BPSK	1	1	24.22	24.31	24.23	25.0	0.0
Channel				140900	141000	142700	Tune-up limit (dBm)	MRR
Frequency (MHz)				701.5	707.5	713.5	(dB)	(dB)
5	PI2 BPSK	1	1	24.27	24.35	24.20	26.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				372000	376000	381000		
Frequency (MHz)				1860	1892.5	1905		
20	PI2 BPSK	1	1	24.87	24.88	24.85		
20	PI2 BPSK	1	53	24.73	24.79	24.70	26.0	0.0
20	PI2 BPSK	1	104	24.75	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	26.5	0.5
20	PI2 BPSK	50	25	24.72	24.81	24.75	26.0	0.0
20	PI2 BPSK	50	56	24.19	24.31	24.25		
20	PI2 BPSK	100	0	24.90	24.93	24.88	26.5	0.5
20	QPSK	1	1	24.81	24.95	24.83		
20	QPSK	1	53	24.84	24.95	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.95	23.88	25.0	1.0
20	QPSK	50	26	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	25.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.84	24.05	24.03	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.26	23.5	2.5
20	256QAM	1	1	20.46	20.49	20.39	21.5	4.5
Channel				371600	376000	381000	Tune-up limit (dBm)	MRR
Frequency (MHz)				1867.5	1892.5	1907.5	(dB)	(dB)
15	PI2 BPSK	1	1	24.79	24.87	24.82	25.0	0.0
Channel				371900	376000	380000	Tune-up limit (dBm)	MRR
Frequency (MHz)				1865	1892.5	1910	(dB)	(dB)
10	PI2 BPSK	1	1	24.53	24.59	24.52	25.0	0.0
Channel				370500	376000	380500	Tune-up limit (dBm)	MRR
Frequency (MHz)				1862.5	1892.5	1912.5	(dB)	(dB)
5	PI2 BPSK	1	1	24.76	24.86	24.80	26.0	0.0



n25_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	1860	1892.5	1905		
20	PI2 BPSK	1	53	24.87	24.88	24.89		
20	PI2 BPSK	1	104	24.73	24.79	24.70	26.0	0.0
20	PI2 BPSK	1	104	24.75	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	PI2 BPSK	50	25	24.72	24.81	24.75	25.0	0.0
20	PI2 BPSK	50	56	24.19	24.31	24.25	25.5	0.5
20	PI2 BPSK	100	0	24.80	24.83	24.82		
20	QPSK	1	1	24.91	25.05	24.83		
20	QPSK	1	53	24.84	24.95	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.95	23.88	25.0	1.0
20	QPSK	50	25	24.91	24.82	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88	25.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.84	24.05	24.03	25.0	1.0
20	64QAM	1	1	22.30	22.33	22.25	23.5	2.5
20	256QAM	1	1	20.46	20.62	20.50	21.5	4.5
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	PI2 BPSK	1	1	182.75	1892.5	1907.5		
Channel								
Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1865	1892.5	1910	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				370500	375500	380500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1862.5	1882.5	1912.5	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	24.76	24.86	24.80	26.0	0.0

n25_Ant7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	20.12	20.17	20.10		
20	PI2 BPSK	1	53	20.01	20.14	20.11	21.0	0.0
20	PI2 BPSK	1	104	20.04	20.14	20.01		
20	PI2 BPSK	50	0	20.15	20.17	20.10	21.0	0.0
20	PI2 BPSK	50	25	20.11	20.24	20.17	21.0	0.0
20	PI2 BPSK	50	56	20.02	20.19	20.05		
20	PI2 BPSK	100	0	19.97	20.04	20.10		
20	QPSK	1	1	20.17	20.27	20.22		
20	QPSK	1	53	20.09	20.23	20.15	21.0	0.0
20	QPSK	1	104	20.07	20.16	20.12		
20	QPSK	50	0	20.02	20.22	20.05	21.0	0.0
20	QPSK	50	25	20.07	20.23	20.11	21.0	0.0
20	QPSK	50	56	19.99	20.21	20.09		
20	QPSK	100	0	20.05	20.08	20.03	21.0	0.0
20	16QAM	1	1	20.01	20.11	20.08	21.0	0.0
20	64QAM	1	1	19.98	20.01	20.00	21.0	0.0
20	256QAM	1	1	18.00	18.06	18.01	19.0	2.0
Channel								
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
15	PI2 BPSK	1	1	182.75	1892.5	1907.5		
Channel								
Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1865	1892.5	1910	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				370500	375500	380500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1862.5	1882.5	1912.5	Tune-up limit (dBm)	MPR (dB)
5	PI2 BPSK	1	1	20.13	20.15	20.15	21.0	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
20	PI2 BPSK	1	1	24.46	24.53	24.50		
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	PI2 BPSK	50	25	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.86	23.87	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67	25.5	0.5
20	QPSK	1	1	24.46	24.77	24.55		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	25	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.06	23.32	23.24	25.0	1.0
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.05	21.5	4.5
Channel								
Frequency (MHz)				164900	166300	166300	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.35	24.43	24.40	25.0	0.0
Channel								
Frequency (MHz)				163800	166300	166800	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.43	24.39	24.42	25.0	0.0
Channel								
Frequency (MHz)				163300	166300	166300	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.37	24.42	24.30	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
20	PI2 BPSK	1	1	24.46	24.53	24.50		
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	PI2 BPSK	50	25	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.86	23.87	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67	25.5	0.5
20	QPSK	1	1	24.46	24.77	24.55		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	25	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.06	23.32	23.24	25.0	1.0
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.05	21.5	4.5
Channel								
Frequency (MHz)				164900	166300	166300	Tune-up limit (dBm)	MRR (dB)
15	PI2 BPSK	1	1	24.35	24.43	24.40	25.0	0.0
Channel								
Frequency (MHz)				163800	166300	166800	Tune-up limit (dBm)	MRR (dB)
10	PI2 BPSK	1	1	24.43	24.39	24.42	25.0	0.0
Channel								
Frequency (MHz)				163300	166300	166300	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	24.37	24.42	24.30	26.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				462000			2310	
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	25	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.50				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31				
10	16QAM	1	1	20.23			21.5	1.0
10	16QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	18.68			19.0	4.5
Channel				461500	462000	462500	Tune-up limit	MRR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				462000			2310	
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	25	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.50				
10	QPSK	1	25	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31				
10	16QAM	1	1	20.23			21.5	1.0
10	16QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	18.68			19.0	4.5
Channel				461500	462000	462500	Tune-up limit	MRR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				462000	2310			
10	PI2 BPSK	1	1	20.28				
10	PI2 BPSK	1	25	20.27			22.0	0.0
10	PI2 BPSK	1	50	20.26				
10	PI2 BPSK	25	0	20.34			22.0	0.0
10	PI2 BPSK	25	14	20.30			22.0	0.0
10	PI2 BPSK	25	27	20.25			22.0	0.0
10	PI2 BPSK	30	0	20.23				
10	QPSK	1	1	20.35				
10	QPSK	1	25	20.32			22.0	0.0
10	QPSK	1	50	20.29				
10	QPSK	25	0	20.31			22.0	0.0
10	QPSK	25	14	20.33			22.0	0.0
10	QPSK	25	27	20.28			22.0	0.0
10	QPSK	50	0	20.20				
10	16QAM	1	1	20.21			22.0	0.0
10	64QAM	1	1	19.28			21.0	1.0
10	256QAM	1	1	17.23			19.0	3.0
Channel				461500	462000	462500	Tune-up limit	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	PI2 BPSK	1	1	20.27	20.28	20.21	22.0	0.0

n66_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)				345000	345000	345000		
30	PI2 BPSK	1	1	24.69	24.61	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	26.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	100	0	24.09	24.16	24.13	26.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.10	23.19	23.15	23.0	1.0
30	QPSK	80	40	24.73	24.85	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	100	0	23.61	23.68	23.65		
30	16QAM	1	1	23.56	23.70	23.64	26.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.35	21.5	4.5
Channel				344000	345000	346000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
30	PI2 BPSK	1	1	24.15	24.15	24.11	25.0	0.0
Channel				343500	345000	346500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI2 BPSK	1	1	24.10	24.62	24.62	23.0	0.0
Channel				343000	345000	350000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI2 BPSK	1	1	24.17	24.68	24.70	23.0	0.0
Channel				342500	345000	350500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				345000	345000	350000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.69		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	PI2 BPSK	160	0	24.09	24.16	24.13		
30	QPSK	1	1	24.86	24.97	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	25.0	1.0
30	QPSK	80	40	24.73	24.86	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.68	23.65		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dB)	
30	PI2 BPSK	1	1	24.76	24.76	24.71	25.0	0.0
Channel				343500	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	(dB)	
15	PI2 BPSK	1	1	24.83	24.82	24.60	25.0	0.0
Channel				343000	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dB)	
10	PI2 BPSK	1	1	24.77	24.88	24.70	25.0	0.0
Channel				342500	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dB)	
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				345000	345000	350000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	22.06	22.18	22.11		
30	PI2 BPSK	1	80	22.17	22.20	22.07	23.5	0.0
30	PI2 BPSK	1	158	21.90	22.02	21.99		
30	PI2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	PI2 BPSK	80	40	22.11	22.23	22.18	25.5	0.0
30	PI2 BPSK	80	80	21.68	21.70	21.57	23.0	0.5
30	PI2 BPSK	160	0	21.64	21.67	21.64		
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.06	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.06		
30	QPSK	80	0	21.13	21.25	21.12	22.5	1.0
30	QPSK	80	40	22.18	22.23	22.15	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	160	0	21.16	21.27	21.18		
30	16QAM	1	1	21.39	21.45	21.30	22.5	1.0
30	64QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.68	17.81	17.66	19.0	4.5
Channel				344000	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dB)	
30	PI2 BPSK	1	1	22.10	22.13	21.99	23.5	0.0
Channel				343500	345000	345000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	(dB)	
15	PI2 BPSK	1	1	22.02	22.18	22.02	23.5	0.0
Channel				343000	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dB)	
10	PI2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel				342500	345000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dB)	
5	PI2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel									
134600 - 138100 - 137600									
20	PI2 BPSK	1	1	1	24.71	24.74	24.70		
20	PI2 BPSK	1	53	1	24.56	24.67	24.63	28.0	0.0
20	PI2 BPSK	1	104	1	24.66	24.71	24.65		
20	PI2 BPSK	50	0	1	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	78	1	24.50	24.58	24.69	26.0	0.0
20	PI2 BPSK	50	56	1	24.12	24.15	24.30		
20	PI2 BPSK	100	0	1	24.97	24.17	24.14	25.5	0.5
20	QPSK	1	1	1	24.70	24.82	24.73		
20	QPSK	1	53	1	24.53	24.62	24.60	28.0	0.0
20	QPSK	1	104	1	24.54	24.59	24.68		
20	QPSK	50	0	1	23.87	23.14	23.81	25.0	1.0
20	QPSK	50	28	1	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	1	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	1	23.52	23.83	23.87		
20	16QAM	1	1	1	24.10	24.13	24.12	25.0	1.0
20	16QAM	1	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	1	20.96	20.99	20.95	21.5	4.5
Channel									
134100 - 138100 - 138100									
15	PI2 BPSK	1	1	1	24.43	24.61	24.51	25.0	0.0
Channel									
133600 - 138100 - 138600									
10	PI2 BPSK	1	1	1	24.52	24.53	24.52	26.0	0.0
Channel									
133100 - 138100 - 139100									
5	PI2 BPSK	1	1	1	24.45	24.54	24.53	25.0	0.0

n71_Ant2

Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (dBm)	Power Middle Ch. Freq. (dBm)	Power High Ch. Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel									
134600 - 138100 - 137600									
20	PI2 BPSK	1	1	1	24.71	24.74	24.70		
20	PI2 BPSK	1	53	1	24.56	24.67	24.63	28.0	0.0
20	PI2 BPSK	1	104	1	24.66	24.71	24.65		
20	PI2 BPSK	50	0	1	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	78	1	24.50	24.58	24.69	26.0	0.0
20	PI2 BPSK	50	56	1	24.12	24.15	24.30		
20	PI2 BPSK	100	0	1	24.97	24.17	24.14	25.5	0.5
20	QPSK	1	1	1	24.70	24.82	24.73		
20	QPSK	1	53	1	24.53	24.62	24.60	28.0	0.0
20	QPSK	1	104	1	24.54	24.59	24.68		
20	QPSK	50	0	1	23.87	23.14	23.81	25.0	1.0
20	QPSK	50	28	1	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	1	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	1	23.52	23.83	23.87		
20	16QAM	1	1	1	24.10	24.13	24.12	25.0	1.0
20	16QAM	1	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	1	20.96	20.99	20.95	21.5	4.5
Channel									
134100 - 138100 - 138100									
15	PI2 BPSK	1	1	1	24.43	24.61	24.51	25.0	0.0
Channel									
133600 - 138100 - 138600									
10	PI2 BPSK	1	1	1	24.52	24.53	24.52	26.0	0.0
Channel									
133100 - 138100 - 139100									
5	PI2 BPSK	1	1	1	24.45	24.54	24.53	25.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	17.68	17.64	17.57		0.0
40	PI2 BPSK	1	53	17.49	17.63	17.39	19.0	0.0
40	PI2 BPSK	1	104	17.59	17.63	17.51		
40	PI2 BPSK	50	0	17.62	17.71	17.70	19.0	0.0
40	PI2 BPSK	50	26	17.63	17.60	17.54	19.0	0.0
40	PI2 BPSK	50	56	17.44	17.62	17.59	19.0	0.0
40	PI2 BPSK	100	0	17.52	17.49	17.54	19.0	0.0
40	QPSK	1	1	17.68	17.79	17.65		
40	QPSK	1	53	17.50	17.59	17.69	19.0	0.0
40	QPSK	1	104	17.50	17.63	17.62		
40	QPSK	50	0	17.76	17.64	17.64	19.0	0.0
40	QPSK	50	26	17.55	17.69	17.56	19.0	0.0
40	QPSK	50	56	17.37	17.60	17.42	19.0	0.0
40	QPSK	100	0	17.55	17.60	17.51	19.0	0.0
40	16QAM	1	1	17.26	17.41	17.30	19.0	0.0
40	16QAM	1	1	17.55	17.70	17.62	19.0	0.0
40	256QAM	1	1	17.56	17.70	17.62	19.0	0.0
Channel				535000	535000	539000	19.8	
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	17.56	17.62	17.55	19.0	0.0
Channel				516500	516500	520000	19.9	
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	17.51	17.57	17.54	19.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51	26.0	0.0
40	PI2 BPSK	1	104	24.61	24.70	24.67		
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.60	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.58	24.52	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80	26.0	0.0
40	QPSK	50	26	24.68	24.71	24.70		
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	16QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				535000	535000	539000	19.8	
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				516500	516500	520000	19.9	
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50202	51698	53000		
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	1	17.62	17.76	17.59	19.0	0.0
100	PI2 BPSK	1	137	17.58	17.68	17.54	19.0	0.0
100	PI2 BPSK	1	271	17.68	17.62	17.58	19.0	0.0
100	PI2 BPSK	133	0	17.34	17.48	17.50	19.0	0.0
100	PI2 BPSK	133	69	17.60	17.65	17.48	19.0	0.0
100	PI2 BPSK	133	133	17.59	17.59	17.60	19.0	0.0
100	PI2 BPSK	270	0	17.51	17.62	17.54	19.0	0.0
100	QPSK	1	1	17.62	17.61	17.56	19.0	0.0
100	QPSK	1	137	17.58	17.72	17.61	19.0	0.0
100	QPSK	1	271	17.66	17.71	17.66	19.0	0.0
100	QPSK	133	0	17.60	17.58	17.63	19.0	0.0
100	QPSK	133	69	17.55	17.68	17.43	19.0	0.0
100	QPSK	133	133	17.35	17.68	17.66	19.0	0.0
100	QPSK	270	0	17.63	17.65	17.62	19.0	0.0
100	16QAM	1	1	17.63	17.64	17.65	19.0	0.0
100	16QAM	1	1	17.71	17.75	17.67	19.0	0.0
100	256QAM	1	1	17.67	17.63	17.74	19.0	0.0
Channel				50203	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	17.56	17.77	17.56	19.0	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	17.59	17.71	17.46	19.0	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2605		
70	PI2 BPSK	1	1	17.67	17.79	17.50	19.0	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	17.63	17.75	17.59	19.0	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	17.67	17.77	17.51	19.0	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	17.61	17.75	17.58	19.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	17.56	17.73	17.56	19.0	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2592.99	2679.99		
20	PI2 BPSK	1	1	17.57	17.71	17.57	19.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50202	51698	53000		
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.83	18.83	18.79	20.5	0.0
100	PI2 BPSK	1	137	18.73	18.81	18.83	20.5	0.0
100	PI2 BPSK	1	271	18.68	18.75	18.68	20.5	0.0
100	PI2 BPSK	133	0	18.75	18.79	18.80	20.5	0.0
100	PI2 BPSK	133	69	18.83	18.84	18.76	20.5	0.0
100	PI2 BPSK	133	133	18.91	18.86	18.84	20.5	0.0
100	PI2 BPSK	270	0	18.77	18.78	18.78	20.5	0.0
100	QPSK	1	1	18.93	19.00	18.98	20.5	0.0
100	QPSK	1	137	18.91	18.98	18.97	20.5	0.0
100	QPSK	1	271	18.73	18.83	18.79	20.5	0.0
100	QPSK	133	0	18.80	18.78	18.74	20.5	0.0
100	QPSK	133	69	18.93	18.95	18.89	20.5	0.0
100	QPSK	133	133	18.89	18.88	18.84	20.5	0.0
100	QPSK	270	0	18.79	18.86	18.81	20.5	0.0
100	16QAM	1	1	18.97	18.83	18.76	20.5	0.0
100	16QAM	1	1	18.79	18.80	18.77	20.5	0.0
100	256QAM	1	1	18.69	18.78	18.76	20.5	0.0
Channel				50203	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	18.69	18.86	18.74	20.5	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	18.74	18.86	18.82	20.5	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2605		
70	PI2 BPSK	1	1	18.69	18.79	18.85	20.5	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	18.78	18.85	18.81	20.5	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	18.71	18.75	18.76	20.5	0.0
Channel				50202	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	18.82	18.76	18.80	20.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	18.81	18.83	18.76	20.5	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2592.99	2679.99		
20	PI2 BPSK	1	1	18.70	18.87	18.76	20.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836000	841666	845332		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80	22.5	0.0
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836000	841666	845332		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3560.01	3624.99	3680		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836000	841666	845332		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80	22.5	0.0
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836000	841666	845332		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3560.01	3624.99	3680		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836000	841666	845332		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.0	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	20.20	20.34	20.24		
40	PI2 BPSK	1	53	20.18	20.13	20.24	21.5	0.0
40	PI2 BPSK	1	104	20.13	20.24	20.19		
40	PI2 BPSK	50	0	20.22	20.32	20.23	21.5	0.0
40	PI2 BPSK	50	26	20.29	20.29	20.19	21.5	0.0
40	PI2 BPSK	50	56	20.24	20.03	20.15	21.5	0.0
40	PI2 BPSK	100	0	20.15	20.15	20.10		
40	QPSK	1	1	20.32	20.35	20.26		
40	QPSK	1	53	20.26	20.15	20.27	21.5	0.0
40	QPSK	1	104	20.25	20.25	20.22		
40	QPSK	50	0	20.27	20.32	20.25		
40	QPSK	50	26	20.19	20.22	20.18	21.5	0.0
40	QPSK	50	56	20.24	20.15	20.11		
40	QPSK	100	0	20.23	20.28	20.22	21.5	0.0
40	64QAM	1	1	20.23	20.31	20.18	21.5	0.0
40	64QAM	1	1	18.58	18.71	18.62	20.0	1.5
40	256QAM	1	1	18.70	18.60	18.51	18.0	3.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	20.27	20.27	20.17	21.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	20.27	20.31	20.18	21.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	20.30	20.28	20.20	21.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	20.20	20.30	20.17	21.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.47	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	138	69	24.20	24.25	24.20	25.94	25.95
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.68
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.97
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.89
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.37
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.95
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

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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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	25.90
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.0	25.48
100	QPSK	1	1	25.99	26.12	26.05	27.5	26.05
100	QPSK	1	137	25.95	26.03	25.92	27.5	25.92
100	QPSK	1	271	25.85	25.92	25.87	27.5	25.87
100	QPSK	138	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	138	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	138	138	25.70	25.76	25.68	27.5	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.76	26.5	24.76
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



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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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26		
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3495.98	3495.98	3494.99	
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	24.20	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	24.21	24.23	24.27	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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	25.92	25.92	25.92	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3499.98	3504.99		
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3790	3840	3900		
100	PI2 BPSK	1	1	20.33	20.33	20.31		
100	PI2 BPSK	1	137	20.19	20.27	20.12	22.0	0.0
100	PI2 BPSK	1	271	20.16	20.31	20.30		
100	PI2 BPSK	138	0	20.24	20.28	20.23	22.0	0.0
100	PI2 BPSK	138	69	20.10	20.25	20.24	22.0	0.0
100	PI2 BPSK	138	138	20.20	20.31	20.18	22.0	0.0
100	PI2 BPSK	270	0	20.24	20.30	20.26		
100	QPSK	1	1	20.20	20.36	20.23		
100	QPSK	1	137	20.27	20.33	20.33	22.0	0.0
100	QPSK	1	271	20.19	20.30	20.28		
100	QPSK	138	0	20.24	20.31	20.31		
100	QPSK	138	69	20.16	20.29	20.15	22.0	0.0
100	QPSK	138	138	20.26	20.27	20.18		
100	QPSK	270	0	20.23	20.28	20.23	22.0	0.0
100	16QAM	1	1	20.12	20.23	20.18	22.0	0.0
100	16QAM	1	1	20.18	20.27	20.16	22.0	0.0
100	256QAM	1	1	20.16	20.20	20.19	21.5	0.5
Channel								
Frequency (MHz)				824663	825000	825332	Tune-up limit (dBm)	MFR (dB)
90	PI2 BPSK	1	1	3745.02	3840	3834.98	22.0	0.0
Channel								
Frequency (MHz)				824335	825000	825006	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	3740.01	3840	3839.99	22.0	0.0
Channel								
Frequency (MHz)				824008	825000	824998	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	20.13	20.16	20.07	22.0	0.0
Channel								
Frequency (MHz)				823680	824000	824000	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	3730.02	3840	3849.98	22.0	0.0
Channel								
Frequency (MHz)				823352	824000	824000	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	20.12	20.17	20.02	22.0	0.0
Channel								
Frequency (MHz)				823024	824000	824000	Tune-up limit (dBm)	MFR (dB)
50	PI2 BPSK	1	1	3720.01	3840	3824.99	22.0	0.0
Channel								
Frequency (MHz)				822700	823000	823000	Tune-up limit (dBm)	MFR (dB)
40	PI2 BPSK	1	1	20.13	20.22	20.11	22.0	0.0
Channel								
Frequency (MHz)				822372	823000	823000	Tune-up limit (dBm)	MFR (dB)
30	PI2 BPSK	1	1	3710.01	3840	3824.98	22.0	0.0
Channel								
Frequency (MHz)				822044	823000	823000	Tune-up limit (dBm)	MFR (dB)
20	PI2 BPSK	1	1	20.14	20.14	20.10	22.0	0.0
Channel								
Frequency (MHz)				821716	822000	822000	Tune-up limit (dBm)	MFR (dB)
20	PI2 BPSK	1	1	20.04	20.20	20.07	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3790	3840	3900		
100	PI2 BPSK	1	1	21.51	21.53	21.47		
100	PI2 BPSK	1	137	21.53	21.58	21.54	23.5	0.0
100	PI2 BPSK	1	271	21.56	21.57	21.56		
100	PI2 BPSK	138	0	21.53	21.55	21.45	23.5	0.0
100	PI2 BPSK	138	69	21.57	21.63	21.64	23.5	0.0
100	PI2 BPSK	138	138	21.60	21.59	21.58	23.5	0.0
100	PI2 BPSK	270	0	21.60	21.60	21.54		
100	QPSK	1	1	21.67	21.69	21.64		
100	QPSK	1	137	21.46	21.48	21.42	23.5	0.0
100	QPSK	1	271	21.64	21.66	21.61		
100	QPSK	138	0	21.51	21.57	21.51		
100	QPSK	138	69	21.47	21.62	21.46	23.5	0.0
100	QPSK	138	138	21.57	21.56	21.50		
100	QPSK	270	0	21.38	21.54	21.39	23.5	0.0
100	16QAM	1	1	21.51	21.54	21.47	23.5	0.0
100	16QAM	1	1	21.45	21.52	21.48	23.5	0.0
100	256QAM	1	1	21.31	21.31	21.28	23.0	0.5
Channel								
Frequency (MHz)				824663	825000	825332	Tune-up limit (dBm)	MFR (dB)
90	PI2 BPSK	1	1	21.61	21.67	21.68	23.5	0.0
Channel								
Frequency (MHz)				824335	825000	825006	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	21.55	21.67	21.51	23.5	0.0
Channel								
Frequency (MHz)				824008	825000	824998	Tune-up limit (dBm)	MFR (dB)
80	PI2 BPSK	1	1	21.56	21.67	21.51	23.5	0.0
Channel								
Frequency (MHz)				823680	824000	824000	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	21.62	21.64	21.55	23.5	0.0
Channel								
Frequency (MHz)				823352	824000	824000	Tune-up limit (dBm)	MFR (dB)
60	PI2 BPSK	1	1	21.62	21.64	21.55	23.5	0.0
Channel								
Frequency (MHz)				823024	824000	824000	Tune-up limit (dBm)	MFR (dB)
50	PI2 BPSK	1	1	21.55	21.66	21.59	23.5	0.0
Channel								
Frequency (MHz)				822700	823000	823000	Tune-up limit (dBm)	MFR (dB)
40	PI2 BPSK	1	1	21.63	21.67	21.57	23.5	0.0
Channel								
Frequency (MHz)				822372	823000	823000	Tune-up limit (dBm)	MFR (dB)
30	PI2 BPSK	1	1	21.57	21.56	21.57	23.5	0.0
Channel								
Frequency (MHz)				822044	823000	823000	Tune-up limit (dBm)	MFR (dB)
20	PI2 BPSK	1	1	21.64	21.63	21.58	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	20 47	20 47	20 47	22.0	0.0
100	PI2 BPSK	1	137	20 38	20 38	20 38	22.0	0.0
100	PI2 BPSK	1	271	20 40	20 40	20 40	22.0	0.0
100	PI2 BPSK	138	0	20 36	20 36	20 36	22.0	0.0
100	PI2 BPSK	138	69	20 47	20 47	20 47	22.0	0.0
100	PI2 BPSK	138	138	20 43	20 43	20 43	22.0	0.0
100	PI2 BPSK	270	0	20 34	20 34	20 34	22.0	0.0
100	QPSK	1	1	20 51	20 51	20 51	22.0	0.0
100	QPSK	1	137	20 38	20 38	20 38	22.0	0.0
100	QPSK	1	271	20 42	20 42	20 42	22.0	0.0
100	QPSK	138	0	20 39	20 39	20 39	22.0	0.0
100	QPSK	138	69	20 42	20 42	20 42	22.0	0.0
100	QPSK	138	138	20 27	20 27	20 27	22.0	0.0
100	QPSK	270	0	20 29	20 29	20 29	22.0	0.0
100	16QAM	1	1	20 34	20 34	20 34	22.0	0.0
100	64QAM	1	1	20 27	20 27	20 27	22.0	0.0
100	256QAM	1	1	20 31	20 31	20 31	21.5	0.5
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3495	3495	3504.99	3504.99
90	PI2 BPSK	1	1	20 32	20 32	20 37	22.0	0.0
Channel				83263	83312	83350	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3490.02	3490.02	3510	3510
80	PI2 BPSK	1	1	20 31	20 24	20 27	22.0	0.0
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3490.02	3490.02	3519.99	3519.99
60	PI2 BPSK	1	1	20 28	20 35	20 35	22.0	0.0
Channel				83168	83312	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3475.02	3475.02	3525	3525
50	PI2 BPSK	1	1	20 18	20 31	20 24	22.0	0.0
Channel				83134	83312	83332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3470.01	3470.01	3529.98	3529.98
40	PI2 BPSK	1	1	20 21	20 37	20 33	22.0	0.0
Channel				83100	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3465	3465	3534.99	3534.99
30	PI2 BPSK	1	1	20 21	20 26	20 22	22.0	0.0
Channel				83068	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3450.02	3450.02	3450	3540	3540
20	PI2 BPSK	1	1	20 17	20 34	20 22	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)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	21 63	21 63	21 63	23.5	0.0
100	PI2 BPSK	1	137	21 64	21 64	21 64	23.5	0.0
100	PI2 BPSK	1	271	21 56	21 56	21 56	23.5	0.0
100	PI2 BPSK	138	0	21 59	21 59	21 59	23.5	0.0
100	PI2 BPSK	138	69	21 63	21 63	21 63	23.5	0.0
100	PI2 BPSK	138	138	21 64	21 64	21 64	23.5	0.0
100	PI2 BPSK	270	0	21 62	21 62	21 62	23.5	0.0
100	QPSK	1	1	21 66	21 66	21 66	23.5	0.0
100	QPSK	1	137	21 56	21 56	21 56	23.5	0.0
100	QPSK	1	271	21 65	21 65	21 65	23.5	0.0
100	QPSK	138	0	21 63	21 63	21 63	23.5	0.0
100	QPSK	138	69	21 56	21 56	21 56	23.5	0.0
100	QPSK	138	138	21 58	21 58	21 58	23.5	0.0
100	QPSK	270	0	21 61	21 61	21 61	23.5	0.0
100	16QAM	1	1	21 63	21 63	21 63	23.5	0.0
100	64QAM	1	1	21 60	21 60	21 60	23.5	0.0
100	256QAM	1	1	21 39	21 39	21 39	23.0	0.5
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3495	3495	3504.99	3504.99
90	PI2 BPSK	1	1	21 52	21 56	21 62	23.5	0.0
Channel				83263	83312	83350	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3490.02	3490.02	3510	3510
80	PI2 BPSK	1	1	21 54	21 53	21 60	23.5	0.0
Channel				83300	83332	83366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3490.02	3490.02	3519.99	3519.99
60	PI2 BPSK	1	1	21 61	21 52	21 48	23.5	0.0
Channel				83168	83312	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3475.02	3475.02	3525	3525
50	PI2 BPSK	1	1	21 62	21 56	21 60	23.5	0.0
Channel				83134	83312	83332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3470.01	3470.01	3529.98	3529.98
40	PI2 BPSK	1	1	21 51	21 56	21 63	23.5	0.0
Channel				83100	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3465	3465	3534.99	3534.99
30	PI2 BPSK	1	1	21 58	21 65	21 50	23.5	0.0
Channel				83068	83332	83500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3450.02	3450.02	3450	3540	3540
20	PI2 BPSK	1	1	21 49	21 57	21 58	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.47	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	138	69	24.20	24.25	24.20	25.94	25.95
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.76
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.97
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.89
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.37
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.95
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

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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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	25.90
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.0	25.48
100	QPSK	1	1	25.99	26.12	26.05	27.5	26.05
100	QPSK	1	137	25.95	26.03	25.92	27.5	25.92
100	QPSK	1	271	25.85	25.92	25.87	27.5	25.87
100	QPSK	138	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	138	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	138	138	25.70	25.76	25.68	27.5	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.75	26.5	24.75
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



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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)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	24.42	24.42	24.42		
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26		
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel				83300	83312	83368		
Frequency (MHz)				3495	3495.98	3504.99		
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel				83563	83312	83503		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel				83800	83312	83658		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel				83168	83312	83000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel				83134	83312	83332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel				83100	83312	83096		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel				83068	83332	83000		
Frequency (MHz)				3450.02	3499.98	3450		
20	PI2 BPSK	1	1	24.21	24.23	24.27	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)	MFR (dB)
Channel								
Frequency (MHz)				83332	83332	83332		
100	PI2 BPSK	1	1	25.99	25.99	25.99		
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94		
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel				83800	83312	83368		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel				83563	83312	83503		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel				83800	83312	83658		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel				83168	83312	83000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel				83134	83312	83332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel				83100	83312	83096		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel				83068	83332	83000		
Frequency (MHz)				3450.02	3499.98	3450		
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



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Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	18.62	18.73	18.85	20.5	0.0
100	PI2 BPSK	1	137	18.65	18.78	18.88		
100	PI2 BPSK	1	271	18.66	18.73	18.81		
100	PI2 BPSK	138	0	18.72	18.74	18.89	20.5	0.0
100	PI2 BPSK	138	69	18.73	18.74	18.81	20.5	0.0
100	PI2 BPSK	138	138	18.84	18.75	18.71	20.5	0.0
100	PI2 BPSK	270	0	18.72	18.73	18.70		
100	QPSK	1	1	18.85	18.83	18.92		
100	QPSK	1	137	18.90	18.86	18.95	20.5	0.0
100	QPSK	1	271	18.86	18.88	18.78		
100	QPSK	138	0	18.89	18.79	18.87	20.5	0.0
100	QPSK	138	69	18.77	18.87	18.84		
100	QPSK	138	138	18.69	18.75	18.71		
100	QPSK	270	0	18.86	18.71	18.89	20.5	0.0
100	16QAM	1	1	18.63	18.75	18.81	20.5	0.0
100	16QAM	1	1	18.73	18.79	18.72	20.5	0.0
100	256QAM	1	1	18.65	18.73	18.60	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	18.65	18.75	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	18.65	18.80	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	18.71	18.79	18.77	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	18.67	18.81	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	18.67	18.78	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	18.64	18.76	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	18.65	18.79	18.77	20.5	0.0

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Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	20.36	20.39	20.37		
100	PI2 BPSK	1	137	20.43	20.41	20.46	22.0	0.0
100	PI2 BPSK	1	271	20.48	20.51	20.46		
100	PI2 BPSK	138	0	20.39	20.47	20.43	22.0	0.0
100	PI2 BPSK	138	69	20.33	20.51	20.49	22.0	0.0
100	PI2 BPSK	138	138	20.38	20.41	20.47	22.0	0.0
100	PI2 BPSK	270	0	20.45	20.40	20.44		
100	QPSK	1	1	20.48	20.54	20.51		
100	QPSK	1	137	20.38	20.52	20.38	22.0	0.0
100	QPSK	1	271	20.46	20.43	20.47		
100	QPSK	138	0	20.36	20.49	20.47	22.0	0.0
100	QPSK	138	69	20.34	20.43	20.39		
100	QPSK	138	138	20.39	20.46	20.49	22.0	0.0
100	QPSK	270	0	20.45	20.48	20.46	22.0	0.0
100	16QAM	1	1	20.45	20.47	20.38	22.0	0.0
100	16QAM	1	1	20.40	20.45	20.41	22.0	0.0
100	256QAM	1	1	20.45	20.46	20.47	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	20.30	20.36	20.28	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	20.29	20.39	20.36	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	20.30	20.45	20.29	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	20.32	20.42	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	20.22	20.33	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	20.22	20.36	20.33	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	20.35	20.35	20.24	22.0	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	19.10				
100	PI2 BPSK	1	137	19.12			20.5	0.0
100	PI2 BPSK	1	271	19.06				
100	PI2 BPSK	135	0	19.06			20.5	0.0
100	PI2 BPSK	135	66	19.04			20.5	0.0
100	PI2 BPSK	135	138	19.03			20.5	0.0
100	PI2 BPSK	270	0	19.07				
100	QPSK	1	1	19.15				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.09				
100	QPSK	135	0	19.11			20.5	0.0
100	QPSK	135	66	19.13				
100	QPSK	135	138	19.04			20.5	0.0
100	QPSK	270	0	19.07				
100	64QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.09				
100	256QAM	1	1	19.06			20.5	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	19.06	19.05	18.92	20.5	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	19.00	19.09	18.89	20.5	0.0
Channel				64800	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	19.01	19.03	18.97	20.5	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	18.99	19.14	18.94	20.5	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3523.98		
40	PI2 BPSK	1	1	19.01	19.05	18.89	20.5	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	18.93	19.02	18.98	20.5	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	19.02	19.06	18.89	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	20.61				
100	PI2 BPSK	1	137	20.58			22.0	0.0
100	PI2 BPSK	1	271	20.60				
100	PI2 BPSK	135	0	20.55			22.0	0.0
100	PI2 BPSK	135	66	20.57			22.0	0.0
100	PI2 BPSK	135	138	20.61			22.0	0.0
100	PI2 BPSK	270	0	20.58				
100	QPSK	1	1	20.66				
100	QPSK	1	137	20.61			22.0	0.0
100	QPSK	1	271	20.63				
100	QPSK	135	0	20.58			22.0	0.0
100	QPSK	135	66	20.64				
100	QPSK	135	138	20.61			22.0	0.0
100	QPSK	270	0	20.60				
100	64QAM	1	1	20.56			22.0	0.0
100	64QAM	1	1	20.64				
100	256QAM	1	1	20.56			22.0	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	20.60	20.53	20.43	22.0	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	20.54	20.63	20.54	22.0	0.0
Channel				64800	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	20.51	20.56	20.52	22.0	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	20.47	20.51	20.55	22.0	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3523.98		
40	PI2 BPSK	1	1	20.58	20.56	20.56	22.0	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	20.58	20.53	20.46	22.0	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	20.61	20.52	20.52	22.0	0.0



State 7 Power

n2_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
				1850	1850	1900		
20	PI2 BPSK	1	1	24.54	24.65	24.82		
20	PI2 BPSK	1	63	24.82	24.92	24.75	26.0	0.0
20	PI2 BPSK	1	104	24.81	24.82	24.74		
20	PI2 BPSK	50	0	24.36	24.39	24.28	25.5	0.5
20	PI2 BPSK	50	26	24.72	24.54	24.75	26.0	0.0
20	PI2 BPSK	50	66	24.22	24.34	24.33	25.5	0.5
20	PI2 BPSK	100	0	24.27	24.38	24.29		
20	QPSK	1	1	24.95	25.01	24.92		
20	QPSK	1	63	24.92	24.93	24.89	26.0	0.0
20	QPSK	1	104	24.92	24.96	24.91		
20	QPSK	50	0	23.78	23.79	23.75	25.0	1.0
20	QPSK	50	28	24.80	24.86	24.78	26.0	0.0
20	QPSK	50	66	23.70	23.61	23.89	25.0	1.0
20	QPSK	100	0	23.72	23.84	23.75		
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MFR (dB)
				1820	1820	1820		
15	PI2 BPSK	1	1	24.53	24.91	24.63	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MFR (dB)
				1855	1855	1905		
10	PI2 BPSK	1	1	24.94	24.94	24.85	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MFR (dB)
				1820	1820	1807.5		
5	PI2 BPSK	1	1	24.91	24.67	24.80	24.0	0.0

n2_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
				1850	1850	1900		
20	PI2 BPSK	1	1	22.45	22.60	22.52		
20	PI2 BPSK	1	63	22.48	22.57	22.53	24.0	0.0
20	PI2 BPSK	1	104	22.50	22.54	22.55		
20	PI2 BPSK	50	0	22.51	22.58	22.55	24.0	0.0
20	PI2 BPSK	50	26	22.50	22.59	22.52	24.0	0.0
20	PI2 BPSK	50	66	22.50	22.56	22.52		
20	PI2 BPSK	100	0	22.51	22.59	22.48		
20	QPSK	1	1	22.53	22.61	22.58		
20	QPSK	1	63	22.50	22.59	22.51	24.0	0.0
20	QPSK	1	104	22.46	22.52	22.55		
20	QPSK	50	0	22.44	22.57	22.43	24.0	0.0
20	QPSK	50	28	22.50	22.58	22.49	24.0	0.0
20	QPSK	50	66	22.43	22.49	22.46		
20	QPSK	100	0	22.49	22.55	22.46	24.0	0.0
20	16QAM	1	1	22.42	22.53	22.42	24.0	0.0
20	64QAM	1	1	21.91	22.06	21.91	23.5	0.5
20	256QAM	1	1	19.96	20.05	19.90	21.5	2.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MFR (dB)
				1820	1820	1820		
15	PI2 BPSK	1	1	22.44	22.54	22.45	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MFR (dB)
				1855	1855	1905		
10	PI2 BPSK	1	1	22.51	22.54	22.53	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MFR (dB)
				1820	1820	1807.5		
5	PI2 BPSK	1	1	22.52	22.58	22.40	24.0	0.0



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
				1850	1850	1900		
20	PI2 BPSK	1	1	18.62	18.63	18.64		
20	PI2 BPSK	1	63	18.58	18.65	18.55	18.0	0.0
20	PI2 BPSK	1	104	18.65	18.61	18.62		
20	PI2 BPSK	50	0	18.52	18.67	18.67	18.0	0.0
20	PI2 BPSK	50	26	18.68	18.66	18.50	18.0	0.0
20	PI2 BPSK	50	66	18.60	18.58	18.47	18.0	0.0
20	PI2 BPSK	100	0	18.63	18.69	18.62		
20	QPSK	1	1	18.76	18.76	18.78		
20	QPSK	1	63	18.58	18.66	18.64	18.0	0.0
20	QPSK	1	104	18.66	18.69	18.59		
20	QPSK	50	0	18.58	18.65	18.61	18.0	0.0
20	QPSK	50	28	18.61	18.67	18.64	18.0	0.0
20	QPSK	50	66	18.61	18.59	18.38	18.0	0.0
20	QPSK	100	0	18.54	18.66	18.62	18.0	0.0
20	16QAM	1	1	18.56	18.59	18.50	18.0	0.0
20	64QAM	1	1	18.50	18.59	18.51	18.0	0.0
20	256QAM	1	1	18.48	18.59	18.54	18.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1823.0	1823.0	1823.0	18.0	0.0
15	PI2 BPSK	1	1	18.65	18.59	18.63	18.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1815.0	1815.0	1815.0	18.0	0.0
10	PI2 BPSK	1	1	18.56	18.60	18.51	18.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1810.0	1810.0	1810.0	18.0	0.0
5	PI2 BPSK	1	1	18.60	18.57	18.52	18.0	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
				834	835	839		
20	PI2 BPSK	1	1	24.40	24.51	24.43		
20	PI2 BPSK	1	63	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.49	24.56	24.46		
20	PI2 BPSK	50	0	23.96	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	26	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	66	23.94	23.99	23.92	25.5	0.5
20	PI2 BPSK	100	0	23.91	23.98	23.98		
20	QPSK	1	1	24.63	24.71	24.60		
20	QPSK	1	63	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	66	23.94	23.48	23.94	26.0	1.0
20	QPSK	100	0	23.39	23.46	23.33	25.0	1.0
20	16QAM	1	1	23.55	23.58	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.5	831.5	831.5	18.0	0.0
15	PI2 BPSK	1	1	24.66	24.64	24.60	26.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				839.0	839.5	844.0	18.0	0.0
10	PI2 BPSK	1	1	24.56	24.63	24.50	26.0	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.5	831.5	846.0	18.0	0.0
5	PI2 BPSK	1	1	24.56	24.61	24.60	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
				834	838.5	839		
20	PI2 BPSK	1	1	2130	2133	2140		
20	PI2 BPSK	1	63	2127	2141	2119	23.0	0.0
20	PI2 BPSK	1	104	2138	2149	2137		
20	PI2 BPSK	50	0	2145	2140	2141	23.0	0.0
20	PI2 BPSK	50	26	2138	2149	2132	23.0	0.0
20	PI2 BPSK	50	66	2131	2144	2139	23.0	0.0
20	PI2 BPSK	100	0	2131	2142	2134		
20	QPSK	1	1	2160	2155	2152		
20	QPSK	1	63	2152	2160	2144	23.0	0.0
20	QPSK	1	104	2150	2161	2147		
20	QPSK	50	0	2141	2142	2138	23.0	0.0
20	QPSK	50	28	2136	2144	2134	23.0	0.0
20	QPSK	50	66	2130	2138	2124	23.0	0.0
20	QPSK	100	0	2138	2142	2120	23.0	0.0
20	16QAM	1	1	2145	2156	2138	23.0	0.0
20	64QAM	1	1	2140	2151	2144	23.0	0.0
20	256QAM	1	1	1974	1987	1986	21.5	1.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.6	831.5	811.2	(dBm)	(dB)
15	PI2 BPSK	1	1	2146	2146	2133	23.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				829	830.5	844	(dBm)	(dB)
10	PI2 BPSK	1	1	2137	2149	2140	23.0	0.0
Channel				166300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	PI2 BPSK	1	1	2136	2141	2127	23.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				500000	507000	510000		
				2510	2515	2560		
20	PI2 BPSK	1	1	2482	2485	2484		
20	PI2 BPSK	1	63	2481	2481	2485	26.0	0.0
20	PI2 BPSK	1	104	2484	2483	2487		
20	PI2 BPSK	50	0	2482	2480	2480	25.5	0.5
20	PI2 BPSK	50	26	2482	2480	2483	26.0	0.0
20	PI2 BPSK	50	66	2486	2445	2486	25.5	0.5
20	PI2 BPSK	100	0	2480	2483	2484		
20	QPSK	1	1	2486	2497	2491		
20	QPSK	1	63	2482	2491	2490	26.0	0.0
20	QPSK	1	104	2483	2480	2492		
20	QPSK	50	0	2392	2404	2393	25.0	1.0
20	QPSK	50	28	2485	2491	2486	26.0	0.0
20	QPSK	50	66	2489	2491	2394	26.0	1.0
20	QPSK	100	0	2388	2386	2383	26.0	1.0
20	16QAM	1	1	2380	2392	2391	26.0	1.0
20	64QAM	1	1	2231	2236	2233	23.5	2.5
20	256QAM	1	1	2053	2057	2051	21.5	4.5
Channel				501800	507000	512500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2527.6	2515	2527.5	(dBm)	(dB)
15	PI2 BPSK	1	1	2481	2480	2487	26.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505	2515	2565	(dBm)	(dB)
10	PI2 BPSK	1	1	2474	2486	2487	26.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2502.5	2515	2567.5	(dBm)	(dB)
5	PI2 BPSK	1	1	2475	2482	2484	23.0	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				500000	507000	512000		
20				2510	2325	2360		
20	PI2 BPSK	1	1	16.53	16.61	16.60		
20	PI2 BPSK	1	63	16.51	16.60	16.60	17.5	0.0
20	PI2 BPSK	1	104	16.60	16.67	16.63		
20	PI2 BPSK	50	0	16.55	16.61	16.48	17.5	0.0
20	PI2 BPSK	50	26	16.48	16.44	16.47	17.5	0.0
20	PI2 BPSK	50	66	16.51	16.55	16.41	17.5	0.0
20	PI2 BPSK	100	0	16.36	16.37	16.41		
20	QPSK	1	1	16.64	16.69	16.57		
20	QPSK	1	63	16.52	16.63	16.59	17.5	0.0
20	QPSK	1	104	16.56	16.62	16.59		
20	QPSK	50	0	16.58	16.64	16.54	17.5	0.0
20	QPSK	50	28	16.56	16.67	16.52	17.5	0.0
20	QPSK	50	66	16.57	16.60	16.48		
20	QPSK	100	0	16.62	16.66	16.60	17.5	0.0
20	16QAM	1	1	16.56	16.63	16.65	17.5	0.0
20	64QAM	1	1	16.50	16.57	16.59	17.5	0.0
20	256QAM	1	1	16.50	16.59	16.52	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				222.0	223.5	222.5	(dBm)	(dB)
15	PI2 BPSK	1	1	16.54	16.65	16.63	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				220.5	223.5	226.5	(dBm)	(dB)
10	PI2 BPSK	1	1	16.55	16.67	16.65	17.5	0.0
Channel				506000	507000	513500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				220.0	223.5	228.0	(dBm)	(dB)
5	PI2 BPSK	1	1	16.54	16.62	16.50	17.5	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1413000	141600	1417000		
15				706.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.33	24.33		
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	22.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.69	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.26	23.23	26.0	1.0
15	16QAM	1	1	23.69	23.18	23.07	26.0	1.0
15	64QAM	1	1	21.99	21.99	21.61	23.5	2.5
20	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel				146800	141600	142200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				724	707.5	711	(dBm)	(dB)
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel				146300	141600	142700	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				707.5	707.5	713.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.27	24.35	24.25	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MRR (dB)
Channel				141900	141900	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	2120	2123	2119		
15	PI2 BPSK	1	40	2123	2125	2120	23.0	0.0
15	PI2 BPSK	1	77	2116	2128	2118		
15	PI2 BPSK	36	0	2121	2125	2118	23.0	0.0
15	PI2 BPSK	36	22	2121	2130	2117	23.0	0.0
15	PI2 BPSK	36	43	2115	2127	2117	23.0	0.0
15	PI2 BPSK	75	0	2119	2128	2123		
15	QPSK	1	1	2133	2135	2128		
15	QPSK	1	40	2128	2130	2120	23.0	0.0
15	QPSK	1	77	2124	2133	2124		
15	QPSK	36	0	2121	2124	2115	23.0	0.0
15	QPSK	36	22	2124	2131	2124	23.0	0.0
15	QPSK	36	43	2123	2129	2122		
15	QPSK	75	0	2117	2127	2121	23.0	0.0
15	16QAM	1	1	2116	2125	2123	23.0	0.0
15	64QAM	1	1	2121	2122	2122	23.0	0.0
15	256QAM	1	1	19.05	19.80	19.72	21.5	1.5
Channel				140800	141000	142500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				701	707.5	711		
10	PI2 BPSK	1	1	2117	2122	2115	23.0	0.0
Channel				140900	141000	142700	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	PI2 BPSK	1	1	2120	2130	2122	23.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MRR (dB)
Channel				372000	376000	381000		
Frequency (MHz)				1860	1892.5	1905		
20	PI2 BPSK	1	1	2417	2418	2415		
20	PI2 BPSK	1	63	2473	2479	2470	26.0	0.0
20	PI2 BPSK	1	104	2475	2484	2474		
20	PI2 BPSK	50	0	2482	2486	2481	25.5	0.5
20	PI2 BPSK	50	26	2472	2481	2475	26.0	0.0
20	PI2 BPSK	50	66	2419	2431	2425		
20	PI2 BPSK	100	0	2430	2433	2426	25.5	0.5
20	QPSK	1	1	2491	2506	2483		
20	QPSK	1	63	2484	2495	2481	26.0	0.0
20	QPSK	1	104	2476	2491	2482		
20	QPSK	50	0	2385	2395	2388	25.0	1.0
20	QPSK	50	28	2490	2491	2482	26.0	0.0
20	QPSK	50	66	2495	2491	2488		
20	QPSK	100	0	2405	2411	2400	25.0	1.0
20	16QAM	1	1	2394	2405	2403	26.0	1.0
20	64QAM	1	1	2230	2230	2230	23.5	2.5
20	256QAM	1	1	2049	2062	2059	21.5	4.5
Channel				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1857.5	1892.5	1907.5		
15	PI2 BPSK	1	1	2479	2487	2487	26.0	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1855	1892.5	1910		
10	PI2 BPSK	1	1	2413	2419	2415	25.0	0.5
Channel				370500	376000	382500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				1852.5	1892.5	1917.5		
5	PI2 BPSK	1	1	2476	2480	2470	23.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	1850	1882.5	1905	24.0	0.0
20	PI2 BPSK	1	63	22.83	22.85	22.82		
20	PI2 BPSK	1	104	22.72	22.78	22.70	24.0	0.0
20	PI2 BPSK	50	0	22.79	22.84	22.72		
20	PI2 BPSK	50	26	22.86	22.86	22.86	24.0	0.0
20	PI2 BPSK	50	56	22.72	22.77	22.75		
20	PI2 BPSK	50	56	22.84	22.82	22.72	24.0	0.0
20	PI2 BPSK	100	0	22.81	22.84	22.78		
20	QPSK	1	1	22.90	23.09	22.80	24.0	0.0
20	QPSK	1	63	22.83	22.90	22.79		
20	QPSK	1	104	22.79	22.88	22.84	24.0	0.0
20	QPSK	50	0	22.78	22.86	22.81		
20	QPSK	50	28	22.85	22.91	22.78	24.0	0.0
20	QPSK	50	56	22.89	22.86	22.76		
20	QPSK	100	0	22.88	22.88	22.74	24.0	0.0
20	16QAM	1	1	22.82	22.88	22.87		
20	16QAM	1	1	22.29	22.30	23.5	24.0	0.0
20	256QAM	1	1	20.51	20.61	20.55		
Channel				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				182.0	182.5	182.5	24.0	0.0
15	PI2 BPSK	1	1	22.85	23.01	22.67	24.0	0.0
Channel				371000	376000	380000		
Frequency (MHz)				182.5	182.5	191.0	24.0	0.0
10	PI2 BPSK	1	1	22.79	23.02	22.67	24.0	0.0
Channel				370500	376000	380500		
Frequency (MHz)				182.0	182.5	191.2	24.0	0.0
5	PI2 BPSK	1	1	22.70	23.04	22.73	24.0	0.0
Channel				370000	376000	380500		
Frequency (MHz)				182.0	182.5	191.2	24.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	381000	Tune-up limit (dBm)	MRR (dB)
20	PI2 BPSK	1	1	1710	1720	1720	18.0	0.0
20	PI2 BPSK	1	63	16.96	17.14	17.10		
20	PI2 BPSK	1	104	17.06	17.12	16.99	18.0	0.0
20	PI2 BPSK	50	0	17.10	17.22	17.07		
20	PI2 BPSK	50	26	17.12	17.28	17.19	18.0	0.0
20	PI2 BPSK	50	56	17.00	17.24	17.05		
20	PI2 BPSK	100	0	16.98	17.03	17.08	18.0	0.0
20	QPSK	1	1	17.16	17.30	17.19		
20	QPSK	1	63	17.11	17.23	17.17	18.0	0.0
20	QPSK	1	104	17.11	17.19	17.13		
20	QPSK	50	0	17.01	17.22	17.02	18.0	0.0
20	QPSK	50	28	17.06	17.21	17.13		
20	QPSK	50	56	17.04	17.17	17.10	18.0	0.0
20	QPSK	100	0	17.09	17.15	17.02		
20	16QAM	1	1	16.97	17.15	17.13	18.0	0.0
20	16QAM	1	1	16.97	17.03	17.05		
20	256QAM	1	1	17.18	17.28	17.23	18.0	0.0
Channel				371500	376000	381500		
Frequency (MHz)				182.0	182.5	182.5	24.0	0.0
15	PI2 BPSK	1	1	17.05	17.28	17.14	18.0	0.0
Channel				371000	376000	380000		
Frequency (MHz)				182.5	182.5	191.0	24.0	0.0
10	PI2 BPSK	1	1	17.08	17.29	17.10	18.0	0.0
Channel				370500	376000	380500		
Frequency (MHz)				182.0	182.5	191.2	24.0	0.0
5	PI2 BPSK	1	1	17.05	17.23	17.00	18.0	0.0
Channel				370000	376000	380500		
Frequency (MHz)				182.0	182.5	191.2	24.0	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
				824	831.5	839		
20	PI2 BPSK	1	1	24.40	24.43	24.50		
20	PI2 BPSK	1	63	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.46	24.41		
20	PI2 BPSK	50	0	23.81	23.82	23.88	25.5	0.5
20	PI2 BPSK	50	26	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	66	23.86	23.87	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	63	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.44	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	28	24.25	24.32	24.23	26.0	0.0
20	QPSK	50	66	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.05	21.5	4.5
Channel								
Frequency (MHz)				164300	166300	168300	Tune-up limit (dBm)	MFR (dB)
				821.5	831.5	841.5	25.0	0.0
15	PI2 BPSK	1	1	24.38	24.43	24.40	25.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MFR (dB)
				819	831.5	844	25.0	0.0
10	PI2 BPSK	1	1	24.43	24.39	24.42	25.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MFR (dB)
				816.5	831.5	846.5	25.0	0.0
5	PI2 BPSK	1	1	24.37	24.42	24.39	23.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
				824	831.5	839		
20	PI2 BPSK	1	1	21.44	21.61	21.62		
20	PI2 BPSK	1	63	21.44	21.58	21.46	23.0	0.0
20	PI2 BPSK	1	104	21.41	21.59	21.48		
20	PI2 BPSK	50	0	21.46	21.62	21.48	23.0	0.0
20	PI2 BPSK	50	26	21.48	21.62	21.44	23.0	0.0
20	PI2 BPSK	50	66	21.48	21.63	21.50	23.0	0.0
20	PI2 BPSK	100	0	21.47	21.64	21.51		
20	QPSK	1	1	21.58	21.67	21.58		
20	QPSK	1	63	21.56	21.58	21.54	23.0	0.0
20	QPSK	1	104	21.49	21.60	21.51		
20	QPSK	50	0	21.46	21.59	21.47	23.0	0.0
20	QPSK	50	28	21.50	21.65	21.52	23.0	0.0
20	QPSK	50	66	21.43	21.61	21.51	23.0	0.0
20	QPSK	100	0	21.43	21.58	21.43		
20	16QAM	1	1	21.42	21.61	21.48	23.0	0.0
20	64QAM	1	1	21.41	21.64	21.46	23.0	0.0
20	256QAM	1	1	19.91	20.12	20.01	21.5	1.5
Channel								
Frequency (MHz)				164300	166300	168300	Tune-up limit (dBm)	MFR (dB)
				821.5	831.5	841.5	23.0	0.0
15	PI2 BPSK	1	1	21.49	21.57	21.50	23.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MFR (dB)
				819	831.5	844	23.0	0.0
10	PI2 BPSK	1	1	21.43	21.59	21.47	23.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MFR (dB)
				816.5	831.5	846.5	23.0	0.0
5	PI2 BPSK	1	1	21.41	21.64	21.51	23.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				462000	462000			
Frequency (MHz)				2110				
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	26	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.97			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	26	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			19.0	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2207.0	2110	2123	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				462000	462000			
Frequency (MHz)				2110				
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	26	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.97			22.0	0.5
10	PI2 BPSK	25	14	21.27			22.5	0.0
10	PI2 BPSK	25	27	20.78			22.0	0.5
10	PI2 BPSK	50	0	20.80				
10	QPSK	1	1	21.40				
10	QPSK	1	26	21.34			22.5	0.0
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.36			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	64QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1	16.68			19.0	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2207.0	2110	2123	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				462000	462000	462000		
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	17.23				
10	PI2 BPSK	1	25	17.32			19.0	0.0
10	PI2 BPSK	1	50	17.35				
10	PI2 BPSK	25	0	17.34			19.0	0.0
10	PI2 BPSK	25	14	17.39				
10	PI2 BPSK	25	27	17.40			19.0	0.0
10	PI2 BPSK	50	0	17.40				
10	QPSK	1	1	17.42				
10	QPSK	1	25	17.40			19.0	0.0
10	QPSK	1	50	17.38				
10	QPSK	25	0	17.35			19.0	0.0
10	QPSK	25	14	17.41				
10	QPSK	25	27	17.38			19.0	0.0
10	QPSK	50	0	17.37				
10	16QAM	1	1	17.35			19.0	0.0
10	16QAM	1	1	17.34			19.0	0.0
10	256QAM	1	1	17.35			19.0	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2310	2310	2312.5	19.0	0.0
5	PI2 BPSK	1	1	17.27	17.25	17.23	19.0	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				345000	345000	345000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	24.03	24.81	24.62		
30	PI2 BPSK	1	80	24.65	24.75	24.83	26.0	0.0
30	PI2 BPSK	1	158	24.75	24.79	24.88		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.18	24.13	25.5	0.5
30	QPSK	1	1	24.88	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	25.0	1.0
30	QPSK	80	40	24.73	24.85	24.77	26.0	0.0
30	QPSK	80	80	23.84	23.72	23.81		
30	QPSK	160	0	23.61	23.68	23.68	25.0	1.0
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	16QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.35	21.5	4.5
Channel				344000	345000	346000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1720	1740	1760	26.0	0.0
20	PI2 BPSK	1	1	24.06	24.75	24.71	26.0	0.0
Channel				343000	345000	347000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775	26.0	0.0
15	PI2 BPSK	1	1	24.10	24.82	24.62	26.0	0.0
Channel				343000	345000	345000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775	26.0	0.0
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel				342500	345000	345500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5	26.0	0.0
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MFR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	23.63	23.63	23.64		
30	PI2 BPSK	1	80	23.87	23.93	23.85	25.0	0.0
30	PI2 BPSK	1	158	23.85	23.89	23.90		
30	PI2 BPSK	80	0	23.86	23.92	23.87	25.0	0.0
30	PI2 BPSK	80	40	23.85	23.89	23.90	25.0	0.0
30	PI2 BPSK	80	80	23.81	23.96	23.86	25.0	0.0
30	PI2 BPSK	160	0	23.86	23.98	23.99		
30	QPSK	1	1	23.98	24.00	23.98		
30	QPSK	1	80	23.90	23.98	23.90	25.0	0.0
30	QPSK	1	158	23.92	23.96	23.93		
30	QPSK	80	0	23.81	23.89	23.90	25.0	0.0
30	QPSK	80	40	23.90	23.98	23.93	25.0	0.0
30	QPSK	80	80	23.85	23.94	23.91	25.0	0.0
30	QPSK	160	0	23.85	23.96	23.87	25.0	0.0
30	16QAM	1	1	23.83	23.90	23.86	25.0	0.0
30	64QAM	1	1	22.37	22.42	23.5	1.5	
30	256QAM	1	1	20.35	20.40	20.38	3.5	
Channel				344000	349000	344000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1720	1740	1720	(dBm)	(dB)
20	PI2 BPSK	1	1	23.63	23.67	23.65	25.0	0.0
Channel				343000	349000	344000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1715	1745	1722	(dBm)	(dB)
15	PI2 BPSK	1	1	23.66	23.66	23.64	25.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI2 BPSK	1	1	23.14	23.11	23.17	25.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI2 BPSK	1	1	22.89	23.11	23.17	25.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MFR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI2 BPSK	1	1	19.16	19.16	19.20		
30	PI2 BPSK	1	80	19.14	19.22	19.21	20.5	0.0
30	PI2 BPSK	1	158	19.20	19.20	19.17		
30	PI2 BPSK	80	0	19.16	19.17	19.13	20.5	0.0
30	PI2 BPSK	80	40	19.19	19.23	19.15	20.5	0.0
30	PI2 BPSK	80	80	19.15	19.19	19.13	20.5	0.0
30	PI2 BPSK	160	0	19.16	19.18	19.16		
30	QPSK	1	1	19.21	19.25	19.22		
30	QPSK	1	80	19.15	19.22	19.15	20.5	0.0
30	QPSK	1	158	19.19	19.22	19.16		
30	QPSK	80	0	19.12	19.15	19.13	20.5	0.0
30	QPSK	80	40	19.20	19.21	19.18	20.5	0.0
30	QPSK	80	80	19.15	19.15	19.13	20.5	0.0
30	QPSK	160	0	19.11	19.15	19.12	20.5	0.0
30	16QAM	1	1	19.17	19.15	19.11	20.5	0.0
30	64QAM	1	1	19.12	19.13	19.11	20.5	0.0
30	256QAM	1	1	17.61	17.61	17.64	19.0	1.5
Channel				344000	349000	344000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1720	1740	1720	(dBm)	(dB)
20	PI2 BPSK	1	1	19.13	19.17	19.13	20.5	0.0
Channel				343000	349000	344000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1715	1745	1722	(dBm)	(dB)
15	PI2 BPSK	1	1	19.17	19.19	19.21	20.5	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI2 BPSK	1	1	19.19	19.22	19.13	20.5	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI2 BPSK	1	1	19.13	19.17	19.14	20.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)				134600	136100	137600		
				673	660.5	666		
20	PI2 BPSK	1	1	24.71	24.74	24.80		
20	PI2 BPSK	1	53	24.95	24.67	24.63	26.0	0.0
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	9	24.13	24.35	24.30	25.5	0.5
20	PI2 BPSK	50	28	24.40	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10		
20	PI2 BPSK	100	0	24.07	24.17	24.14		
20	QPSK	1	1	24.70	24.62	24.73		
20	QPSK	1	53	24.53	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.68		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.49	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.52	23.63	23.57		
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	16QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.59	20.59	20.55	21.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR
Frequency (MHz)				610.5	600.5	605.5		
15	PI2 BPSK	1	1	24.41	24.61	24.51	26.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR
Frequency (MHz)				668	660.5	661		
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR
Frequency (MHz)				665.5	660.5	665.5		
5	PI2 BPSK	1	1	24.43	24.54	24.53	25.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)				134600	136100	137600		
				673	660.5	666		
20	PI2 BPSK	1	1	21.53	21.41	21.57		
20	PI2 BPSK	1	53	21.24	21.42	21.42	23.0	0.0
20	PI2 BPSK	1	104	21.28	21.40	21.27		
20	PI2 BPSK	50	9	21.31	21.41	21.30	23.0	0.0
20	PI2 BPSK	50	28	21.24	21.38	21.28	23.0	0.0
20	PI2 BPSK	50	56	21.30	21.41	21.31		
20	PI2 BPSK	100	0	21.24	21.42	21.31		
20	QPSK	1	1	21.39	21.45	21.43		
20	QPSK	1	53	21.37	21.36	21.40	23.0	0.0
20	QPSK	1	104	21.38	21.39	21.34		
20	QPSK	50	0	21.23	21.41	21.32	23.0	0.0
20	QPSK	50	28	21.32	21.44	21.34	23.0	0.0
20	QPSK	50	56	21.28	21.41	21.27		
20	QPSK	100	0	21.30	21.35	21.28	23.0	0.0
20	16QAM	1	1	21.29	21.35	21.28	23.0	0.0
20	16QAM	1	1	21.26	21.42	21.30	23.0	0.0
20	256QAM	1	1	19.79	19.88	19.79	21.5	1.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR
Frequency (MHz)				610.5	600.5	605.5		
15	PI2 BPSK	1	1	21.24	21.38	21.25	23.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR
Frequency (MHz)				668	660.5	661		
10	PI2 BPSK	1	1	21.23	21.35	21.30	23.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR
Frequency (MHz)				665.5	660.5	665.5		
5	PI2 BPSK	1	1	21.20	21.35	21.23	23.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	14.75	14.70	14.60		
40	PI2 BPSK	1	53	14.50	14.60	14.41		
40	PI2 BPSK	1	104	14.50	14.63	14.52	16.0	
40	PI2 BPSK	50	0	14.62	14.75	14.74	16.0	0.0
40	PI2 BPSK	50	26	14.66	14.60	14.59	16.0	0.0
40	PI2 BPSK	50	56	14.46	14.71	14.68	16.0	0.0
40	PI2 BPSK	100	0	14.60	14.57	14.61		
40	QPSK	1	1	14.75	14.79	14.67		
40	QPSK	1	53	14.68	14.64	14.69		
40	QPSK	1	104	14.57	14.68	14.61	16.0	0.0
40	QPSK	50	0	14.77	14.63	14.70		
40	QPSK	50	26	14.54	14.75	14.64	16.0	0.0
40	QPSK	50	56	14.65	14.63	14.46		
40	QPSK	100	0	14.61	14.69	14.59	16.0	0.0
40	16QAM	1	1	14.34	14.41	14.31	16.0	0.0
40	16QAM	1	1	14.59	14.78	14.83	16.0	0.0
40	256QAM	1	1	14.63	14.77	14.67	16.0	0.0
Channel				535500	535500	539000	Turn-up limit (dBm)	1.5dB
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	14.70	14.77	14.63	16.0	0.0
Channel				516500	516500	520000	Turn-up limit (dBm)	1.5dB
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	14.66	14.74	14.59	16.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2490	2505	2500		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	0.0
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.60	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.76	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73		
40	QPSK	1	104	24.66	24.77	24.76	26.0	0.0
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	16QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				535500	535500	539000	Turn-up limit (dBm)	1.5dB
Frequency (MHz)				2485	2505	2505		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				516500	516500	520000	Turn-up limit (dBm)	1.5dB
Frequency (MHz)				2480	2505	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50200	51698	53000		
100	PI2 BPSK	1	1	14.65	14.72	14.65		
100	PI2 BPSK	1	137	14.65	14.73	14.68	16.0	0.0
100	PI2 BPSK	1	271	14.66	14.69	14.67		
100	PI2 BPSK	133	0	14.73	14.70	14.65	16.0	0.0
100	PI2 BPSK	133	69	14.65	14.72	14.64	16.0	0.0
100	PI2 BPSK	133	133	14.73	14.68	14.67	16.0	0.0
100	PI2 BPSK	270	0	14.69	14.75	14.66		
100	QPSK	1	1	14.70	14.81	14.77		
100	QPSK	1	137	14.70	14.79	14.75	16.0	0.0
100	QPSK	1	271	14.75	14.80	14.70		
100	QPSK	133	0	14.68	14.70	14.67		
100	QPSK	133	69	14.74	14.76	14.73	16.0	0.0
100	QPSK	133	133	14.70	14.72	14.70		
100	QPSK	270	0	14.67	14.71	14.70	16.0	0.0
100	16QAM	1	1	14.73	14.74	14.70	16.0	0.0
100	16QAM	1	1	14.70	14.75	14.70	16.0	0.0
100	256QAM	1	1	14.72	14.73	14.71	16.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	14.66	14.68	14.72	16.0	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	14.72	14.73	14.72	16.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2650		
70	PI2 BPSK	1	1	14.72	14.69	14.67	16.0	0.0
Channel				50200	51698	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	14.70	14.70	14.71	16.0	0.0
Channel				50200	51698	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	14.71	14.71	14.67	16.0	0.0
Channel				50200	51896	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	14.68	14.72	14.66	16.0	0.0
Channel				50200	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	14.70	14.68	14.70	16.0	0.0
Channel				50204	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2592.99	2678.99		
20	PI2 BPSK	1	1	14.66	14.68	14.64	16.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50200	51698	53000		
100	PI2 BPSK	1	1	16.02	16.08	16.05		
100	PI2 BPSK	1	137	16.04	16.10	16.06	17.5	0.0
100	PI2 BPSK	1	271	16.02	16.10	16.01		
100	PI2 BPSK	133	0	16.03	16.12	16.09	17.5	0.0
100	PI2 BPSK	133	69	16.00	16.09	16.04	17.5	0.0
100	PI2 BPSK	133	133	16.02	16.10	16.06	17.5	0.0
100	PI2 BPSK	270	0	16.00	16.13	16.01		
100	QPSK	1	1	16.12	16.16	16.14		
100	QPSK	1	137	16.03	16.15	16.09	17.5	0.0
100	QPSK	1	271	16.11	16.11	16.10		
100	QPSK	133	0	16.01	16.09	16.04		
100	QPSK	133	69	16.08	16.14	16.10	17.5	0.0
100	QPSK	133	133	16.05	16.06	16.06		
100	QPSK	270	0	16.05	16.11	16.02	17.5	0.0
100	16QAM	1	1	16.00	16.10	16.06	17.5	0.0
100	16QAM	1	1	16.06	16.10	16.03	17.5	0.0
100	256QAM	1	1	16.00	16.10	16.04	17.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	16.04	16.08	16.03	17.5	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	16.04	16.08	16.05	17.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2650		
70	PI2 BPSK	1	1	16.03	16.07	16.04	17.5	0.0
Channel				50200	51698	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	16.03	16.10	16.03	17.5	0.0
Channel				50200	51698	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	16.01	16.05	16.02	17.5	0.0
Channel				50200	51896	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	16.05	16.12	16.05	17.5	0.0
Channel				50200	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	16.01	16.13	16.09	17.5	0.0
Channel				50204	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2592.99	2678.99		
20	PI2 BPSK	1	1	16.02	16.09	16.04	17.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505200	516596	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	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)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502000	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65		0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		0.0
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	20.20	20.34	20.24		
40	PI2 BPSK	1	53	20.18	20.13	20.24	21.5	0.0
40	PI2 BPSK	1	104	20.13	20.24	20.19		
40	PI2 BPSK	50	0	20.22	20.32	20.23		0.0
40	PI2 BPSK	50	26	20.29	20.29	20.19	21.5	0.0
40	PI2 BPSK	50	56	20.24	20.03	20.15	21.5	0.0
40	PI2 BPSK	100	0	20.15	20.15	20.10		
40	QPSK	1	1	20.32	20.35	20.26		
40	QPSK	1	53	20.26	20.15	20.27	21.5	0.0
40	QPSK	1	104	20.25	20.25	20.22		
40	QPSK	50	0	20.27	20.32	20.25		0.0
40	QPSK	50	26	20.19	20.22	20.18	21.5	0.0
40	QPSK	50	56	20.24	20.15	20.11		
40	QPSK	100	0	20.23	20.28	20.22	20.5	0.0
40	64QAM	1	1	20.23	20.31	20.18	20.5	0.0
40	64QAM	1	1	18.58	18.71	18.62	19.0	1.5
40	256QAM	1	1	18.70	18.60	18.51	17.0	3.5
Channel								
Frequency (MHz)				6370.58	641666	645265		
				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	20.27	20.27	20.17	21.5	0.0
Channel								
Frequency (MHz)				6382.34	641666	645003		
				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	20.27	20.31	20.18	21.5	0.0
Channel								
Frequency (MHz)				6387.68	641666	645166		
				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	20.30	20.28	20.20	21.5	0.0
Channel								
Frequency (MHz)				6393.00	641666	645332		
				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	20.20	20.30	20.17	21.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.47	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.5	25.48
100	QPSK	1	1	24.33	24.30	24.30	26.0	26.05
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	138	69	24.20	24.25	24.20	25.94	25.95
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.76
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.97
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.89
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.37
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.95
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	25.90
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.0	25.48
100	QPSK	1	1	25.99	26.12	26.05	27.5	26.05
100	QPSK	1	137	25.95	26.03	25.92	27.5	25.92
100	QPSK	1	271	25.85	25.92	25.87	27.5	25.87
100	QPSK	138	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	138	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	138	138	25.70	25.76	25.68	27.5	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.76	26.5	24.76
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3495.98	3504.99		
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	24.20	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	25.92	25.92	25.92	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	26.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3499.98	3504.99		
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510		
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99		
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525		
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99		
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540		
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				65000	65500	66000		
100	PI2 BPSK	1	1	16.90	17.01	16.93		
100	PI2 BPSK	1	137	16.92	16.99	17.00		
100	PI2 BPSK	1	271	16.91	17.03	16.92		
100	PI2 BPSK	133	0	16.93	17.07	16.98	19.0	0.0
100	PI2 BPSK	135	69	16.94	17.04	16.99	19.0	0.0
100	PI2 BPSK	135	135	16.93	17.05	16.99	19.0	0.0
100	PI2 BPSK	270	0	16.95	17.02	16.99		
100	QPSK	1	1	17.01	17.10	17.06		
100	QPSK	1	137	17.00	17.04	16.99		
100	QPSK	1	271	17.09	17.01		19.0	0.0
100	QPSK	135	0	16.95	17.02	16.95		
100	QPSK	135	69	16.96	17.08	17.01	19.0	0.0
100	QPSK	135	135	16.87	17.04	16.93		
100	QPSK	270	0	16.91	17.06	16.99	19.0	0.0
100	16QAM	1	1	16.96	17.01	16.97	19.0	0.0
100	64QAM	1	1	16.95	17.07	16.98	19.0	0.0
100	256QAM	1	1	16.88	17.00	17.00	19.0	0.0
Channel				65000	65500	66000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	16.93	17.07	16.99	19.0	0.0
Channel				64335	65000	65506	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	16.90	17.01	16.93	19.0	0.0
Channel				64363	65000	65332	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	16.92	17.02	16.99	19.0	0.0
Channel				64334	65000	65006	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3725.01	3840	3824.99		
50	PI2 BPSK	1	1	16.94	17.07	16.96	19.0	0.0
Channel				64300	65000	64900	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	16.88	17.07	16.96	19.0	0.0
Channel				64168	65000	65232	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3715.02	3840	3824.98		
30	PI2 BPSK	1	1	16.95	17.07	16.94	19.0	0.0
Channel				64134	65000	64406	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3710.01	3840	3809.99		
20	PI2 BPSK	1	1	16.88	17.04	16.99	19.0	0.0

Par270 n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				65000	65500	66000		
100	PI2 BPSK	1	1	16.48	16.51	16.40		
100	PI2 BPSK	1	137	16.49	16.54	16.47		
100	PI2 BPSK	1	271	16.43	16.56	16.40		
100	PI2 BPSK	133	0	16.47	16.58	16.42	20.5	0.0
100	PI2 BPSK	135	69	16.48	16.56	16.45	20.5	0.0
100	PI2 BPSK	135	135	16.47	16.53	16.43	20.5	0.0
100	PI2 BPSK	270	0	16.42	16.54	16.41		
100	QPSK	1	1	16.57	16.61	16.52		
100	QPSK	1	137	16.56	16.58	16.48		
100	QPSK	1	271	16.50	16.60	16.51	20.5	0.0
100	QPSK	135	0	16.43	16.56	16.42		
100	QPSK	135	69	16.51	16.60	16.48	20.5	0.0
100	QPSK	135	135	16.49	16.54	16.45		
100	QPSK	270	0	16.44	16.51	16.39	20.5	0.0
100	16QAM	1	1	16.42	16.54	16.45	20.5	0.0
100	64QAM	1	1	16.48	16.53	16.41	20.5	0.0
100	256QAM	1	1	16.43	16.57	16.42	20.5	0.0
Channel				65000	65500	66000	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	16.47	16.53	16.41	20.5	0.0
Channel				64335	65000	65506	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	16.44	16.53	16.40	20.5	0.0
Channel				64363	65000	65332	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	16.50	16.58	16.44	20.5	0.0
Channel				64334	65000	65006	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3725.01	3840	3824.99		
50	PI2 BPSK	1	1	16.50	16.57	16.41	20.5	0.0
Channel				64300	65000	64900	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	16.44	16.52	16.45	20.5	0.0
Channel				64168	65000	65232	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3715.02	3840	3824.98		
30	PI2 BPSK	1	1	16.46	16.58	16.43	20.5	0.0
Channel				64134	65000	64406	Tune-up limit (dBm)	MRR (dB)
Frequency (MHz)				3710.01	3840	3809.99		
20	PI2 BPSK	1	1	16.49	16.53	16.45	20.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.20				
100	PI2 BPSK	1	137	17.22			19.0	0.0
100	PI2 BPSK	1	271	17.18				
100	PI2 BPSK	133	0	17.15			19.0	0.0
100	PI2 BPSK	135	69	17.16			19.0	0.0
100	PI2 BPSK	133	133	17.18			19.0	0.0
100	PI2 BPSK	270	0	17.23				
100	QPSK	1	1	17.24				
100	QPSK	1	137	17.16			19.0	0.0
100	QPSK	1	271	17.17				
100	QPSK	135	0	17.17				
100	QPSK	135	69	17.22			19.0	0.0
100	QPSK	133	133	17.20				
100	QPSK	270	0	17.19			19.0	0.0
100	16QAM	1	1	17.20			19.0	0.0
100	16QAM	1	1	17.23				
100	256QAM	1	1	17.15			19.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	17.14	17.20	17.12	19.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.20	17.19	17.08	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.21	17.22	17.13	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	17.18	17.15	17.14	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	17.13	17.17	17.12	19.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MFR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99	19.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.20	17.21	17.12	19.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.82				
100	PI2 BPSK	1	137	18.87			20.5	0.0
100	PI2 BPSK	1	271	18.85				
100	PI2 BPSK	133	0	18.85			20.5	0.0
100	PI2 BPSK	135	69	18.86			20.5	0.0
100	PI2 BPSK	133	133	18.80			20.5	0.0
100	PI2 BPSK	270	0	18.84				
100	QPSK	1	1	18.95				
100	QPSK	1	137	18.91			20.5	0.0
100	QPSK	1	271	18.87				
100	QPSK	135	0	18.82				
100	QPSK	135	69	18.88			20.5	0.0
100	QPSK	133	133	18.84				
100	QPSK	270	0	18.80			20.5	0.0
100	16QAM	1	1	18.84			20.5	0.0
100	16QAM	1	1	18.86				
100	256QAM	1	1	18.82			20.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.87	18.80	18.76	20.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.79	18.82	18.79	20.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.84	18.84	18.82	20.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.83	18.84	18.81	20.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.81	18.80	18.74	20.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	63000	63332	63666	Tune-up limit (dBm)	MFR
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99	19.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.85	18.80	18.79	20.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.02	26.07
100	PI2 BPSK	1	271	24.16	24.22	24.18	25.89	26.01
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	25.47
100	PI2 BPSK	138	69	24.12	24.14	24.01	25.9	25.96
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	25.37
100	PI2 BPSK	270	0	23.70	23.72	23.66	25.46	25.48
100	QPSK	1	1	24.33	24.36	24.30	26.0	26.06
100	QPSK	1	137	24.17	24.23	24.15	25.95	26.03
100	QPSK	1	271	24.10	24.15	24.06	25.85	25.87
100	QPSK	138	0	24.12	24.23	24.22	25.87	25.88
100	QPSK	138	69	24.20	24.25	24.20	25.94	25.95
100	QPSK	138	138	24.11	24.16	24.09	25.70	25.76
100	QPSK	270	0	23.27	23.28	23.24	24.96	24.97
100	16QAM	1	1	23.27	23.38	23.29	25.0	24.99
100	64QAM	1	1	21.81	21.90	21.83	23.5	23.47
100	256QAM	1	1	19.96	20.08	19.99	21.5	21.38
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	25.95
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	25.88

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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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	26.01
100	PI2 BPSK	1	137	26.02	26.07	26.01	26.02	26.01
100	PI2 BPSK	1	271	25.89	26.01	25.90	25.89	25.90
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	25.47
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	25.96
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	25.37
100	PI2 BPSK	270	0	25.46	25.52	25.48	26.0	25.48
100	QPSK	1	1	25.99	26.12	26.06	27.5	26.06
100	QPSK	1	137	25.95	26.03	25.92	26.0	25.92
100	QPSK	1	271	25.85	25.92	25.87	26.0	25.87
100	QPSK	138	0	25.87	25.88	25.77	27.5	25.77
100	QPSK	138	69	25.94	26.06	25.95	27.5	25.95
100	QPSK	138	138	25.70	25.76	25.68	26.5	25.68
100	QPSK	270	0	24.96	24.97	24.87	26.5	24.87
100	16QAM	1	1	24.92	24.99	24.76	26.5	24.76
100	64QAM	1	1	23.43	23.47	23.37	25.0	23.37
100	256QAM	1	1	21.38	21.46	21.33	23.0	21.33
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.87	25.94	25.85	27.5	25.85
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	25.94
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	25.93
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	26.01
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	25.87
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	25.92
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	25.88



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45		
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01		
100	QPSK	1	1	24.53	24.53	24.53		
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32		
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59		
100	QPSK	133	133	24.26	24.26	24.26		
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3495.98	3495.98	3495.98	3495.98
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510	3499.98	3510
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99	3499.98	3519.99
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525	3499.98	3525
50	PI2 BPSK	1	1	24.20	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98	3499.98	3529.98
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99	3499.98	3534.99
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540	3499.98	3540
20	PI2 BPSK	1	1	24.21	24.23	24.27	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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98	3499.98		
100	PI2 BPSK	1	137	25.92	25.92	25.92	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03		
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46		
100	QPSK	1	1	26.11	26.11	26.11		
100	QPSK	1	137	26.05	26.05	26.05	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04		
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08		
100	QPSK	133	133	25.94	25.94	25.94		
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	26.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3499.98	3495.98	3495.98	3495.98
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	3499.98	3510	3499.98	3510
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	3499.98	3519.99	3499.98	3519.99
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	3499.98	3525	3499.98	3525
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	3499.98	3529.98	3499.98	3529.98
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3465	3499.98	3534.99	3499.98	3534.99
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3460.02	3499.98	3540	3499.98	3540
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant10

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	18.62	18.73	18.85	20.5	0.0
100	PI2 BPSK	1	137	18.65	18.78	18.86		
100	PI2 BPSK	1	271	18.66	18.73	18.81		
100	PI2 BPSK	133	0	18.72	18.74	18.89	20.5	0.0
100	PI2 BPSK	133	69	18.73	18.74	18.81	20.5	0.0
100	PI2 BPSK	133	133	18.84	18.75	18.71	20.5	0.0
100	PI2 BPSK	270	0	18.72	18.73	18.70		
100	QPSK	1	1	18.85	18.83	18.92		
100	QPSK	1	137	18.59	18.66	18.55	20.5	0.0
100	QPSK	1	271	18.86	18.88	18.78		
100	QPSK	133	0	18.69	18.79	18.67	20.5	0.0
100	QPSK	133	69	18.77	18.87	18.84		
100	QPSK	133	133	18.69	18.75	18.71		
100	QPSK	270	0	18.66	18.71	18.89	20.5	0.0
100	16QAM	1	1	18.63	18.75	18.61	20.5	0.0
100	16QAM	1	1	18.73	18.79	18.72	20.5	0.0
100	256QAM	1	1	18.65	18.73	18.60	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	18.65	18.75	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	18.65	18.80	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	18.71	18.79	18.77	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	18.67	18.81	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	18.67	18.78	18.79	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	18.64	18.76	18.72	20.5	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	18.65	18.79	18.77	20.5	0.0

Par270 n77 HPUE_Ant10

Channel	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel	Frequency (MHz)			85000	85500	86000		
100	PI2 BPSK	1	1	20.36	20.39	20.37		
100	PI2 BPSK	1	137	20.43	20.41	20.45	22.0	0.0
100	PI2 BPSK	1	271	20.48	20.51	20.45		
100	PI2 BPSK	133	0	20.39	20.47	20.43	22.0	0.0
100	PI2 BPSK	133	69	20.33	20.51	20.49	22.0	0.0
100	PI2 BPSK	133	133	20.38	20.41	20.47	22.0	0.0
100	PI2 BPSK	270	0	20.45	20.49	20.44		
100	QPSK	1	1	20.48	20.54	20.51		
100	QPSK	1	137	20.38	20.52	20.38	22.0	0.0
100	QPSK	1	271	20.46	20.43	20.47		
100	QPSK	133	0	20.36	20.49	20.47	22.0	0.0
100	QPSK	133	69	20.34	20.43	20.39		
100	QPSK	133	133	20.39	20.46	20.49	22.0	0.0
100	QPSK	270	0	20.45	20.48	20.46	22.0	0.0
100	16QAM	1	1	20.45	20.47	20.38	22.0	0.0
100	16QAM	1	1	20.40	20.45	20.41	22.0	0.0
100	256QAM	1	1	20.45	20.46	20.47	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
90	PI2 BPSK	1	1	20.30	20.36	20.28	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
80	PI2 BPSK	1	1	20.29	20.39	20.36	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
60	PI2 BPSK	1	1	20.30	20.45	20.29	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
50	PI2 BPSK	1	1	20.32	20.42	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
40	PI2 BPSK	1	1	20.22	20.33	20.24	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
30	PI2 BPSK	1	1	20.22	20.36	20.33	22.0	0.0
Channel	Frequency (MHz)			85000	85500	86000		
20	PI2 BPSK	1	1	20.35	20.35	20.24	22.0	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	19.10				
100	PI2 BPSK	1	137	19.12			20.5	0.0
100	PI2 BPSK	1	271	19.06				
100	PI2 BPSK	135	0	19.06				
100	PI2 BPSK	135	66	19.04			20.5	0.0
100	PI2 BPSK	135	138	19.03			20.5	0.0
100	PI2 BPSK	270	0	19.07				
100	QPSK	1	1	19.15				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.09				
100	QPSK	135	0	19.11				
100	QPSK	135	66	19.13			20.5	0.0
100	QPSK	135	138	19.04				
100	QPSK	270	0	19.07			20.5	0.0
100	64QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.09			20.5	0.0
100	256QAM	1	1	19.06			20.5	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	19.06	19.05	18.92	20.5	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	19.00	19.09	18.89	20.5	0.0
Channel				64800	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3499.98	3519.99		
60	PI2 BPSK	1	1	19.01	19.03	18.97	20.5	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	18.99	19.14	18.94	20.5	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	19.01	19.05	18.89	20.5	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	18.93	19.02	18.98	20.5	0.0
Channel				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	19.02	19.06	18.89	20.5	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	20.61				
100	PI2 BPSK	1	137	20.58			22.0	0.0
100	PI2 BPSK	1	271	20.60				
100	PI2 BPSK	135	0	20.55			22.0	0.0
100	PI2 BPSK	135	66	20.57			22.0	0.0
100	PI2 BPSK	135	138	20.61			22.0	0.0
100	PI2 BPSK	270	0	20.58				
100	QPSK	1	1	20.66				
100	QPSK	1	137	20.61			22.0	0.0
100	QPSK	1	271	20.63				
100	QPSK	135	0	20.58				
100	QPSK	135	66	20.64			22.0	0.0
100	QPSK	135	138	20.61				
100	QPSK	270	0	20.60			22.0	0.0
100	64QAM	1	1	20.56			22.0	0.0
100	64QAM	1	1	20.54			22.0	0.0
100	256QAM	1	1	20.56			22.0	0.0
Channel				63300	63332	63366	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	20.60	20.53	20.43	22.0	0.0
Channel				63059	63332	63603	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	20.54	20.63	20.54	22.0	0.0
Channel				64800	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3499.98	3519.99		
60	PI2 BPSK	1	1	20.51	20.56	20.52	22.0	0.0
Channel				63666	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI2 BPSK	1	1	20.47	20.51	20.55	22.0	0.0
Channel				63134	63332	63532	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	20.58	20.56	20.56	22.0	0.0
Channel				63100	63332	63666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	20.58	20.53	20.46	22.0	0.0
Channel				63066	63332	63600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	20.61	20.52	20.52	22.0	0.0



State 10 Power

n2_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)				1600	1600	1600			
20	P1/2 BPSK	1	1	23.92	23.97	23.84			
20	P1/2 BPSK	1	83	23.91	23.95	23.88	25.0	0.0	
20	P1/2 BPSK	1	104	23.92	23.92	23.92			
20	P1/2 BPSK	50	0	23.89	23.90	23.83	25.0	0.0	
20	P1/2 BPSK	50	28	23.94	23.88	23.91	25.0	0.0	
20	P1/2 BPSK	50	56	23.80	23.89	23.83	25.0	0.0	
20	P1/2 BPSK	100	0	23.86	23.85	23.85	25.0	0.0	
20	QPSK	1	1	23.85	23.99	23.91			
20	QPSK	1	51	23.91	23.98	23.95	25.0	0.0	
20	QPSK	1	104	23.97	23.97	23.92			
20	QPSK	50	0	23.96	23.97	23.94	25.0	0.0	
20	QPSK	50	28	23.95	23.97	23.90	25.0	0.0	
20	QPSK	50	56	23.95	23.88	23.84	25.0	0.0	
20	QPSK	100	0	23.85	23.99	23.91	25.0	0.0	
20	16QAM	1	1	23.82	23.87	23.80	25.0	0.0	
20	64QAM	1	1	23.34	23.37	23.35	23.5	1.5	
20	256QAM	1	1	20.29	20.32	20.22	21.5	3.5	
Channel Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
15	P1/2 BPSK	1	1	23.86	23.94	23.90	25.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1805	1800	1805			
10	P1/2 BPSK	1	1	23.86	23.98	23.93	25.0	0.0	
Channel Frequency (MHz)				370000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
5	P1/2 BPSK	1	1	23.84	23.97	23.93	25.0	0.0	

n2_Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1600	1600	1600			
20	P1/2 BPSK	1	1	24.84	24.95	24.92			
20	P1/2 BPSK	1	83	24.82	24.92	24.79	26.0	0.0	
20	P1/2 BPSK	1	104	24.81	24.82	24.74			
20	P1/2 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	P1/2 BPSK	50	28	24.72	24.84	24.79	26.0	0.0	
20	P1/2 BPSK	50	56	24.22	24.24	24.23	25.5	0.5	
20	P1/2 BPSK	100	0	24.27	24.30	24.25	25.5	0.5	
20	QPSK	1	1	24.95	25.01	24.92			
20	QPSK	1	51	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.96	24.91			
20	QPSK	50	0	23.78	23.79	23.76	26.0	0.0	
20	QPSK	50	28	24.80	24.88	24.78	26.0	0.0	
20	QPSK	50	56	23.70	23.81	23.69	26.0	0.0	
20	QPSK	100	0	23.72	23.84	23.79	26.0	0.0	
20	16QAM	1	1	23.37	23.49	23.34	25.0	1.0	
20	64QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5	
Channel Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
15	P1/2 BPSK	1	1	24.83	24.91	24.88	26.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1805	1800	1805			
10	P1/2 BPSK	1	1	24.84	24.94	24.89	26.0	0.0	
Channel Frequency (MHz)				370000	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				1802.5	1800	1802.5			
5	P1/2 BPSK	1	1	24.91	24.87	24.86	26.0	0.0	



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				1600	1600	1600		
Frequency (MHz)				372000	376000	380000		
20	PI2 BPSK	1	1	22.61	22.62	22.52		
20	PI2 BPSK	1	83	22.56	22.63	22.53	23.5	0.0
20	PI2 BPSK	1	104	22.58	22.62	22.57		
20	PI2 BPSK	50	0	22.05	22.18	22.13	23.0	0.5
20	PI2 BPSK	50	28	22.65	22.66	22.54	23.5	0.0
20	PI2 BPSK	50	56	22.05	22.10	22.01		
20	PI2 BPSK	100	0	22.16	22.17	22.10	23.0	0.5
20	QPSK	1	1	22.73	22.76	22.75		
20	QPSK	1	51	22.59	22.70	22.59	23.5	0.0
20	QPSK	1	104	22.59	22.65	22.59		
20	QPSK	50	0	21.58	21.69	21.59	23.5	0.0
20	QPSK	50	28	22.60	22.64	22.63	23.5	0.0
20	QPSK	50	56	21.59	21.62	21.61		
20	QPSK	100	0	21.56	21.63	21.62	23.5	0.0
20	16QAM	1	1	21.99	21.78	21.84	22.5	1.0
20	64QAM	1	1	20.29	20.34	20.32	23.0	2.5
20	256QAM	1	1	17.95	18.05	18.04	19.0	4.5
Channel				371000	376000	380000		
Frequency (MHz)				1807.5	1800	1807.5		
15	PI2 BPSK	1	1	22.56	22.64	22.54	23.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1805	1800	1805		
10	PI2 BPSK	1	1	22.57	22.64	22.58	23.5	0.0
Channel				370000	376000	381000		
Frequency (MHz)				1802.5	1800	1807.5		
5	PI2 BPSK	1	1	22.54	22.62	22.58	23.5	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				1600	1600	1600		
Frequency (MHz)				167000	167000	167000		
20	PI2 BPSK	1	1	24.49	24.51	24.43		
20	PI2 BPSK	1	83	24.32	24.46	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.40	24.51	24.46		
20	PI2 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	28	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92		
20	PI2 BPSK	100	0	23.91	23.95	23.88	25.5	0.5
20	QPSK	1	1	24.63	24.71	24.60		
20	QPSK	1	51	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	26.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34		
20	QPSK	100	0	23.39	23.46	23.33	26.0	1.0
20	16QAM	1	1	23.99	23.98	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel				166000	167000	168000		
Frequency (MHz)				831.5	830.5	831.5		
15	PI2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0
Channel				166000	167000	168000		
Frequency (MHz)				830	830.5	834		
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0
Channel				165000	167000	169000		
Frequency (MHz)				828.5	830.5	836.5		
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				167300	167300	167300		
Channel Frequency (MHz)				167.3	167.3	167.3		
20	PI2 BPSK	1	1	24.49	24.51	24.43		
20	PI2 BPSK	1	83	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.40	24.25	24.45		
20	PI2 BPSK	50	0	23.59	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	28	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.89	23.92		
20	PI2 BPSK	100	0	23.91	23.95	23.85	26.5	0.5
20	QPSK	1	1	24.63	24.71	24.60		
20	QPSK	1	51	24.56	24.68	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	26.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34		
20	QPSK	100	0	23.39	23.46	23.33	26.0	1.0
20	16QAM	1	1	23.99	23.98	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.75	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel Frequency (MHz)				168300	168300	168300		
Channel Frequency (MHz)				168.3	168.3	168.3		
15	PI2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0
Channel Frequency (MHz)				169300	169300	169300		
Channel Frequency (MHz)				169.3	169.3	169.3		
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0
Channel Frequency (MHz)				169300	169300	169300		
Channel Frequency (MHz)				169.3	169.3	169.3		
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				502000	502000	502000		
Channel Frequency (MHz)				502.0	502.0	502.0		
20	PI2 BPSK	1	1	21.77	21.75	21.89		
20	PI2 BPSK	1	83	21.82	21.84	21.83	22.5	0.0
20	PI2 BPSK	1	104	21.76	21.81	21.71		
20	PI2 BPSK	50	0	21.78	21.73	21.72	22.5	0.0
20	PI2 BPSK	50	28	21.76	21.71	21.77	22.5	0.0
20	PI2 BPSK	50	56	21.75	21.70	21.74		
20	PI2 BPSK	100	0	21.67	21.72	21.70	22.5	0.0
20	QPSK	1	1	21.80	21.88	21.78		
20	QPSK	1	51	21.82	21.82	21.72	22.5	0.0
20	QPSK	1	104	21.74	21.85	21.78		
20	QPSK	50	0	21.71	21.67	21.74	22.5	0.0
20	QPSK	50	28	21.63	21.69	21.54	22.5	0.0
20	QPSK	50	56	21.67	21.65	21.55		
20	QPSK	100	0	21.64	21.70	21.58	22.5	0.0
20	16QAM	1	1	21.76	21.81	21.68	22.5	0.0
20	64QAM	1	1	21.44	21.47	21.51	22.5	0.0
20	256QAM	1	1	20.63	20.69	20.70	21.5	1.0
Channel Frequency (MHz)				503000	503000	503000		
Channel Frequency (MHz)				503.0	503.0	503.0		
15	PI2 BPSK	1	1	21.76	21.71	21.67	22.5	0.0
Channel Frequency (MHz)				504000	504000	504000		
Channel Frequency (MHz)				504.0	504.0	504.0		
10	PI2 BPSK	1	1	21.68	21.68	21.77	22.5	0.0
Channel Frequency (MHz)				505000	505000	505000		
Channel Frequency (MHz)				505.0	505.0	505.0		
5	PI2 BPSK	1	1	21.74	21.74	21.68	22.5	0.0

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n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				24.0	24.6	24.6		
20	P1/2 BPSK	1	1	24.85	24.95	24.94		
20	P1/2 BPSK	1	83	24.81	24.91	24.86	26.0	0.0
20	P1/2 BPSK	1	104	24.84	24.93	24.87		
20	P1/2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	P1/2 BPSK	50	28	24.32	24.39	24.33	26.0	0.0
20	P1/2 BPSK	50	56	24.36	24.45	24.38		
20	P1/2 BPSK	100	0	24.30	24.43	24.34	26.5	0.5
20	QPSK	1	1	24.96	24.97	24.91		
20	QPSK	1	83	24.82	24.91	24.90	26.0	0.0
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	26.0	0.0
20	QPSK	50	28	24.86	24.91	24.86	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.90		
20	QPSK	100	0	23.88	23.95	23.83	26.0	0.0
20	16QAM	1	1	23.80	23.92	23.91	25.0	1.0
20	64QAM	1	1	23.31	23.35	23.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel Frequency (MHz)				501900	501900	512500	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				2507.5	2505	2502.5		
15	P1/2 BPSK	1	1	24.81	24.90	24.87	26.0	0.0
Channel Frequency (MHz)				501000	501000	513000	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				2505	2505	2505		
10	P1/2 BPSK	1	1	24.74	24.86	24.87	26.0	0.0
Channel Frequency (MHz)				500900	501000	513000	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				2502.5	2505	2502.5		
5	P1/2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0

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n12_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 Frequency (MHz)				141900	141900	141700		
15	P1/2 BPSK	1	1	24.30	24.39	24.30		
15	P1/2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	P1/2 BPSK	1	77	24.33	24.37	24.33		
15	P1/2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	P1/2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	P1/2 BPSK	36	43	23.60	23.78	23.75	26.5	0.5
15	P1/2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.16	24.28	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.25	23.23		
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.00	21.09	21.01	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel Frequency (MHz)				140900	141000	142200	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				704	702.5	711		
10	P1/2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel Frequency (MHz)				140900	141000	142200	Tune-up limit (dBm)	MPR (dB)
Channel Frequency (MHz)				701.5	702.5	713.5		
5	P1/2 BPSK	1	1	24.27	24.35	24.28	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				141300	141500	141700		
Frequency (MHz)				701.5	702.5	703.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.60	23.78	23.75		
15	PI2 BPSK	75	0	23.62	23.75	23.72	26.5	0.5
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.20	24.38	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.16	24.40	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20		
15	QPSK	75	0	23.21	23.25	23.23	26.0	1.0
15	16QAM	1	1	23.09	23.18	23.07	26.0	1.0
15	64QAM	1	1	21.50	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel				140800	141000	142200		
Frequency (MHz)				704	702.5	711		
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel				140300	141000	142700		
Frequency (MHz)				701.5	702.5	712.5		
5	PI2 BPSK	1	1	24.27	24.35	24.26	26.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				372000	376000	381000		
Frequency (MHz)				1860	1862.5	1865		
20	PI2 BPSK	1	1	23.97	23.89	23.99		
20	PI2 BPSK	1	83	24.06	24.13	24.02	25.0	0.0
20	PI2 BPSK	1	104	24.00	23.94	23.96		
20	PI2 BPSK	50	0	24.11	24.13	24.10	25.0	0.0
20	PI2 BPSK	50	26	24.07	24.11	24.08	25.0	0.0
20	PI2 BPSK	50	56	23.96	23.96	24.01		
20	PI2 BPSK	100	0	23.79	23.84	23.85	25.0	0.0
20	QPSK	1	1	23.99	24.24	24.04		
20	QPSK	1	51	23.97	23.84	23.96	25.0	0.0
20	QPSK	1	104	23.98	23.84	23.99		
20	QPSK	50	0	23.97	24.09	23.88	25.0	0.0
20	QPSK	50	26	23.83	24.13	23.92	25.0	0.0
20	QPSK	50	56	23.87	24.05	23.97		
20	QPSK	100	0	23.85	24.11	23.95	25.0	0.0
20	16QAM	1	1	23.85	23.82	23.80	25.0	0.0
20	64QAM	1	1	22.33	22.43	22.35	23.5	1.5
20	256QAM	1	1	20.69	20.70	20.75	21.5	3.5
Channel				371500	376000	381500		
Frequency (MHz)				1857.5	1862.5	1867.5		
15	PI2 BPSK	1	1	24.00	24.13	24.01	25.0	0.0
Channel				371000	376000	382000		
Frequency (MHz)				1855	1862.5	1870		
10	PI2 BPSK	1	1	23.94	24.10	24.06	25.0	0.0
Channel				370500	376000	382500		
Frequency (MHz)				1852.5	1862.5	1872.5		
5	PI2 BPSK	1	1	23.95	24.19	24.06	25.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Mid-H Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MRR (dB)
1600				1862.5	1907.5	1952.5		
20	P1/2 BPSK	1	1	24.87	24.88	24.85		
20	P1/2 BPSK	1	83	24.73	24.79	24.70	26.0	0.0
20	P1/2 BPSK	1	104	24.76	24.84	24.74		
20	P1/2 BPSK	50	0	24.82	24.85	24.81	25.5	0.5
20	P1/2 BPSK	50	28	24.72	24.81	24.79	26.0	0.0
20	P1/2 BPSK	50	56	24.76	24.81	24.75		
20	P1/2 BPSK	100	0	24.30	24.33	24.25	26.5	0.5
20	QPSK	1	1	24.91	25.05	24.83		
20	QPSK	1	51	24.84	24.88	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.89	26.0	1.0
20	QPSK	50	28	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.88		
20	QPSK	100	0	24.05	24.11	24.00	26.0	1.0
20	16QAM	1	1	23.94	24.05	24.04	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.25	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel Frequency (MHz)				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1600				1892.5	1937.5	1982.5		
15	P1/2 BPSK	1	1	24.79	24.87	24.87	26.0	0.0
Channel Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MRR (dB)
1600				1895	1940.5	1985.5		
10	P1/2 BPSK	1	1	24.83	24.88	24.86	26.0	0.0
Channel Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1600				1892.5	1937.5	1982.5		
5	P1/2 BPSK	1	1	24.76	24.86	24.86	26.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq	Mid-H Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MRR (dB)
1600				1862.5	1907.5	1952.5		
20	P1/2 BPSK	1	1	22.47	22.51	22.45		
20	P1/2 BPSK	1	83	22.44	22.49	22.47	23.5	0.0
20	P1/2 BPSK	1	104	22.40	22.52	22.45		
20	P1/2 BPSK	50	0	22.00	22.09	21.97	23.0	0.5
20	P1/2 BPSK	50	28	22.43	22.46	22.43	23.5	0.0
20	P1/2 BPSK	50	56	22.00	22.06	21.93		
20	P1/2 BPSK	100	0	22.11	22.13	22.12	23.0	0.5
20	QPSK	1	1	22.52	22.62	22.52		
20	QPSK	1	51	22.42	22.51	22.46	23.5	0.0
20	QPSK	1	104	22.42	22.53	22.43		
20	QPSK	50	0	21.57	21.66	21.57	22.5	1.0
20	QPSK	50	28	22.44	22.56	22.49	23.5	0.0
20	QPSK	50	56	21.47	21.56	21.44		
20	QPSK	100	0	21.66	21.68	21.59	22.5	1.0
20	16QAM	1	1	21.98	21.99	21.94	22.5	1.0
20	64QAM	1	1	20.16	20.24	20.19	21.0	2.5
20	256QAM	1	1	18.03	18.16	18.07	18.0	4.5
Channel Frequency (MHz)				371500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1600				1892.5	1937.5	1982.5		
15	P1/2 BPSK	1	1	22.39	22.48	22.43	23.5	0.0
Channel Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MRR (dB)
1600				1895	1940.5	1985.5		
10	P1/2 BPSK	1	1	22.35	22.50	22.40	23.5	0.0
Channel Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MRR (dB)
1600				1892.5	1937.5	1982.5		
5	P1/2 BPSK	1	1	22.36	22.44	22.44	23.5	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				164800	166300	167800		
Frequency (MHz)				814	811.5	813		
20	P1/2 BPSK	1	1	24.46	24.53	24.50		
20	P1/2 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	P1/2 BPSK	1	104	24.42	24.45	24.41		
20	P1/2 BPSK	50	0	23.81	23.52	23.85	25.5	0.5
20	P1/2 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	P1/2 BPSK	50	56	23.86	23.87	23.77		
20	P1/2 BPSK	100	0	23.72	23.78	23.87	25.5	0.5
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	51	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.26	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30		
20	QPSK	100	0	23.26	23.32	23.24	26.0	1.0
20	16QAM	1	1	24.16	23.81	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.65	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				164300	166300	168300		
Frequency (MHz)				811.5	811.5	811.5		
15	P1/2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel				163600	166300	168900		
Frequency (MHz)				819	811.5	814		
10	P1/2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				818.5	811.5	816.5		
5	P1/2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				164800	166300	167800		
Frequency (MHz)				814	811.5	813		
20	P1/2 BPSK	1	1	24.46	24.53	24.50		
20	P1/2 BPSK	1	83	24.30	24.38	24.27	26.0	0.0
20	P1/2 BPSK	1	104	24.42	24.45	24.41		
20	P1/2 BPSK	50	0	23.81	23.52	23.85	25.5	0.5
20	P1/2 BPSK	50	28	24.26	24.30	24.25	26.0	0.0
20	P1/2 BPSK	50	56	23.86	23.87	23.77		
20	P1/2 BPSK	100	0	23.72	23.78	23.87	25.5	0.5
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	51	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	26.0	1.0
20	QPSK	50	28	24.26	24.32	24.23	26.0	0.0
20	QPSK	50	56	23.30	23.32	23.30		
20	QPSK	100	0	23.26	23.32	23.24	26.0	1.0
20	16QAM	1	1	24.16	23.81	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.65	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				164300	166300	168300		
Frequency (MHz)				811.5	811.5	811.5		
15	P1/2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel				163600	166300	168900		
Frequency (MHz)				819	811.5	814		
10	P1/2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				818.5	811.5	816.5		
5	P1/2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
10	P1/2 BPSK	1	1		21.29		22.5	0.0
10	P1/2 BPSK	1	26		21.30			
10	P1/2 BPSK	1	50		21.31		22.0	0.5
10	P1/2 BPSK	25	0		20.07			
10	P1/2 BPSK	25	14		21.27		22.5	0.0
10	P1/2 BPSK	25	27		20.78			
10	P1/2 BPSK	50	0		20.50		22.0	0.5
10	P1/2 BPSK	50	0		20.50			
10	QPSK	1	1		21.40		22.5	0.0
10	QPSK	1	26		21.34			
10	QPSK	1	50		21.33		21.5	1.0
10	QPSK	25	0		20.22			
10	QPSK	25	14		21.36		22.5	0.0
10	QPSK	25	27		20.24			
10	QPSK	50	0		20.31		21.5	1.0
10	QPSK	50	0		20.31			
10	16QAM	1	1		20.43		21.5	1.0
10	16QAM	1	1		18.67			
10	256QAM	1	1		18.68		18.0	4.5
10	256QAM	1	1		18.68			
Channel Frequency (MHz)				481500	482000	482500	Tune-up limit (dBm)	MRR (dB)
5	P1/2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
10	P1/2 BPSK	1	1		21.29		22.5	0.0
10	P1/2 BPSK	1	26		21.30			
10	P1/2 BPSK	1	50		21.31		22.0	0.5
10	P1/2 BPSK	25	0		20.07			
10	P1/2 BPSK	25	14		21.27		22.5	0.0
10	P1/2 BPSK	25	27		20.78			
10	P1/2 BPSK	50	0		20.50		22.0	0.5
10	P1/2 BPSK	50	0		20.50			
10	QPSK	1	1		21.40		22.5	0.0
10	QPSK	1	26		21.34			
10	QPSK	1	50		21.33		21.5	1.0
10	QPSK	25	0		20.22			
10	QPSK	25	14		21.36		22.5	0.0
10	QPSK	25	27		20.24			
10	QPSK	50	0		20.31		21.5	1.0
10	QPSK	50	0		20.31			
10	16QAM	1	1		20.43		21.5	1.0
10	16QAM	1	1		18.67			
10	256QAM	1	1		18.68		18.0	4.5
10	256QAM	1	1		18.68			
Channel Frequency (MHz)				481500	482000	482500	Tune-up limit (dBm)	MRR (dB)
5	P1/2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
				21.10				
10	PI2 BPSK	1	1	21.84			23.5	0.0
10	PI2 BPSK	1	26	21.96				
10	PI2 BPSK	1	50	21.84				
10	PI2 BPSK	25	0	21.36			23.0	0.5
10	PI2 BPSK	25	14	21.84			23.5	0.0
10	PI2 BPSK	25	27	21.36			23.0	0.5
10	PI2 BPSK	50	0	21.36				
10	QPSK	1	1	21.59			23.5	0.0
10	QPSK	1	26	21.50				
10	QPSK	1	50	21.55				
10	QPSK	25	0	20.52			22.5	1.0
10	QPSK	25	14	21.86			23.5	0.0
10	QPSK	25	27	20.54			22.5	1.0
10	QPSK	50	0	20.56				
10	16QAM	1	1	21.07			22.5	1.0
10	64QAM	1	1	19.33			21.0	2.5
10	256QAM	1	1	17.33			19.0	4.5
Channel Frequency (MHz)				481500	482000	482500	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	21.92	21.94	21.91	23.5	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)								
				345000	346000	347000		
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.76	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.16	24.13	25.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.78	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.75	24.86	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	160	0	23.61	23.69	23.68		
30	16QAM	1	1	23.96	23.70	23.84	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel Frequency (MHz)				345000	346000	347000	Tune-up limit (dBm)	MRR (dB)
				1100	1105	1110		
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel Frequency (MHz)				345000	346000	347000	Tune-up limit (dBm)	MRR (dB)
				1111.5	1125	1122.5		
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel Frequency (MHz)				343000	346000	350000	Tune-up limit (dBm)	MRR (dB)
				1115	1125	1125		
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel Frequency (MHz)				342000	346000	350000	Tune-up limit (dBm)	MRR (dB)
				1125.5	1125	1122.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				345000	349000	353000		
Frequency (MHz)				172.5	174.5	176.5		
30	P1/2 BPSK	1	1	24.69	24.81	24.69		
30	P1/2 BPSK	1	80	24.69	24.75	24.63	26.0	0.0
30	P1/2 BPSK	1	158	24.76	24.79	24.628		
30	P1/2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	P1/2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	P1/2 BPSK	80	80	24.06	24.18	24.028		
30	P1/2 BPSK	160	0	24.09	24.16	24.13	26.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.88	24.78	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.78	24.88	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	160	0	23.61	23.69	23.68	26.0	1.0
30	16QAM	1	1	23.96	23.70	23.84	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel				345000	349000	353000		
Frequency (MHz)				172.5	174.5	176.5		
20	P1/2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel				342000	345000	348000		
Frequency (MHz)				171.0	172.5	174.0		
15	P1/2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				171.5	174.5	177.5		
10	P1/2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel				342000	349000	355000		
Frequency (MHz)				171.5	174.5	177.5		
5	P1/2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Midle Ch. / Freq	High Ch. / Freq		
Channel				345000	349000	353000		
Frequency (MHz)				172.5	174.5	176.5		
30	P1/2 BPSK	1	1	22.06	22.18	22.11		
30	P1/2 BPSK	1	80	22.17	22.20	22.07	23.5	0.0
30	P1/2 BPSK	1	158	22.90	22.02	21.98		
30	P1/2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	P1/2 BPSK	80	40	22.11	22.23	22.18	23.5	0.0
30	P1/2 BPSK	80	80	21.66	21.70	21.62	23.0	0.5
30	P1/2 BPSK	160	0	21.64	21.67	21.64		
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.06	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.08		
30	QPSK	80	0	21.13	21.26	21.12	22.5	1.0
30	QPSK	80	40	22.16	22.23	22.16	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	160	0	21.16	21.27	21.18	22.5	1.0
30	16QAM	1	1	21.99	21.45	21.30	22.5	1.0
30	64QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.68	17.61	17.66	18.0	4.5
Channel				345000	349000	353000		
Frequency (MHz)				172.5	174.5	176.5		
20	P1/2 BPSK	1	1	22.10	22.13	21.99	23.5	0.0
Channel				342000	349000	354000		
Frequency (MHz)				171.0	174.5	177.5		
15	P1/2 BPSK	1	1	22.02	22.16	22.02	23.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				171.5	174.5	177.5		
10	P1/2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel				342000	349000	355000		
Frequency (MHz)				171.5	174.5	177.5		
5	P1/2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)								
				134100	136100	138100		
				691.5	691.5	691.5		
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	25.5	0.5
20	QPSK	1	1	24.70	24.82	24.73	26.0	0.0
20	QPSK	1	53	24.53	24.62	24.60		
20	QPSK	1	104	24.54	24.58	24.58		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.32	23.63	23.57	25.0	1.0
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel Frequency (MHz)								
				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
				691.5	691.5	691.5		
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel Frequency (MHz)								
				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
				698	691.5	691		
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel Frequency (MHz)								
				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
				665.5	691.5	696.5		
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel Frequency (MHz)								
				134100	136100	138100		
				691.5	691.5	691.5		
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.66	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	25.5	0.5
20	QPSK	1	1	24.70	24.82	24.73	26.0	0.0
20	QPSK	1	53	24.53	24.62	24.60		
20	QPSK	1	104	24.54	24.58	24.58		
20	QPSK	50	0	23.67	23.74	23.61	25.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.32	23.63	23.57	25.0	1.0
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel Frequency (MHz)								
				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
				691.5	691.5	691.5		
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel Frequency (MHz)								
				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
				698	691.5	691		
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel Frequency (MHz)								
				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
				665.5	691.5	696.5		
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2585	2595	2605		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	1.5x	
Frequency (MHz)				2580	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	18.50	18.67	18.57		
40	PI2 BPSK	1	53	18.41	18.53	18.31	20.0	0.0
40	PI2 BPSK	1	104	18.23	18.66	18.48		
40	PI2 BPSK	50	0	18.47	18.61	18.39	20.0	0.0
40	PI2 BPSK	50	26	18.35	18.59	18.40	20.0	0.0
40	PI2 BPSK	50	56	18.46	18.62	18.47	20.0	0.0
40	PI2 BPSK	100	0	18.36	18.58	18.39		
40	QPSK	1	1	18.48	18.70	18.60		
40	QPSK	1	53	18.46	18.66	18.52	20.0	0.0
40	QPSK	1	104	18.45	18.64	18.54		
40	QPSK	50	0	18.48	18.67	18.50		
40	QPSK	50	26	18.55	18.58	18.54	20.0	0.0
40	QPSK	50	56	18.44	18.66	18.43		
40	QPSK	100	0	18.41	18.66	18.41	20.0	0.0
40	64QAM	1	1	18.41	18.62	18.39	20.0	0.0
40	64QAM	1	1	18.36	18.56	18.31	20.0	0.0
40	256QAM	1	1	18.44	18.59	18.45	18.0	2.0
Channel				637058	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	18.50	18.60	18.54	20.0	0.0
Channel				638234	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	18.43	18.59	18.45	20.0	0.0
Channel				638168	641666	645165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	18.51	18.57	18.49	20.0	0.0
Channel				638100	641666	645332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	18.46	18.55	18.48	20.0	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				686000	641666	645332		
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.5	0.0
40	PI2 BPSK	50	26	20.18	21.28	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.5	0.0
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	22.5	0.0
40	64QAM	1	1	18.97	20.03	18.99	22.5	0.0
40	64QAM	1	1	18.48	18.50	18.47	22.5	0.0
40	256QAM	1	1	18.36	18.50	18.55	20.5	2.0
Channel				637058	641666	645265		
Frequency (MHz)				3865.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				638234	641666	645003		
Frequency (MHz)				3860.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				638168	641666	645165		
Frequency (MHz)				3857.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				638100	641666	645332		
Frequency (MHz)				3855	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98			
100	PI2 BPSK	1	137	24.42	24.42		26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45			
100	PI2 BPSK	133	0	23.93	23.93		25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31		26.0	0.0
100	PI2 BPSK	133	133	24.15	24.15		25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01			
100	QPSK	1	1	24.53	24.53			
100	QPSK	1	137	24.28	24.28		26.0	0.0
100	QPSK	1	271	24.32	24.32			
100	QPSK	133	0	24.14	24.14		26.0	0.0
100	QPSK	133	69	24.59	24.59			
100	QPSK	133	133	24.26	24.26			
100	QPSK	270	0	23.62	23.62		25.0	1.0
100	16QAM	1	1	23.66	23.66		25.0	1.0
100	64QAM	1	1	21.81	21.81		23.5	2.5
100	256QAM	1	1	19.83	19.83		21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	633112	633668	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3495	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	633000	633112	633668	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3480	3499.98	3519.99	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631168	631312	631500	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3470.01	3499.98	3509.98	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	3499.98			
100	PI2 BPSK	1	137	25.90	25.90		27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03			
100	PI2 BPSK	133	0	25.51	25.51		27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96		27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50		27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46			
100	QPSK	1	1	26.11	26.11			
100	QPSK	1	137	26.06	26.06		27.5	0.0
100	QPSK	1	271	26.04	26.04			
100	QPSK	133	0	25.98	25.98		27.5	0.0
100	QPSK	133	69	26.08	26.08			
100	QPSK	133	133	25.84	25.84			
100	QPSK	270	0	24.91	24.91		26.5	1.0
100	16QAM	1	1	24.89	24.89		26.5	1.0
100	64QAM	1	1	23.64	23.64		25.0	2.5
100	256QAM	1	1	21.31	21.31		23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	633112	633668	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	631168	631312	631500	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631000	631100	631096	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3470.01	3499.98	3509.98	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	133	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	133	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	133	133	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	133	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	133	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	133	133	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	26.0	0.0
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	26.0	0.0
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	26.0	0.0
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	26.0	0.0
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84768	85000	85400	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	26.0	0.0
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	85000	85432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3904.88	26.0	0.0
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85000	85496	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3909.99	26.0	0.0
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	133	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	133	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	133	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	133	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	133	133	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	25.0	4.5
100	16QAM	1	1	24.92	24.99	24.75	25.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	27.5	0.0
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	27.5	0.0
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	27.5	0.0
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	27.5	0.0
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84768	85000	85400	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	27.5	0.0
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	85000	85432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3904.88	27.5	0.0
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85000	85496	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3909.99	27.5	0.0
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42			
100	PI2 BPSK	1	137		24.41		26.0	0.0
100	PI2 BPSK	1	271		24.45			
100	PI2 BPSK	133	0		23.93		25.5	0.5
100	PI2 BPSK	133	69		24.31		26.0	0.0
100	PI2 BPSK	133	133		24.15		25.5	0.5
100	PI2 BPSK	270	0		24.01			
100	QPSK	1	1		24.53			
100	QPSK	1	137		24.28		26.0	0.0
100	QPSK	1	271		24.32			
100	QPSK	133	0		24.14			
100	QPSK	133	69		24.59		26.0	0.0
100	QPSK	133	133		24.26			
100	QPSK	270	0		23.62		25.0	1.0
100	16QAM	1	1		23.66		24.5	1.0
100	64QAM	1	1		21.81		23.5	2.5
100	256QAM	1	1		19.83		21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	333312	633696	1368	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3495	3499.98	3504.99	3610	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3480	3499.98	3519.99	3620	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631000	633312	635696	1368	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3465	3499.98	3534.99	3630	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	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)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	25.99			
100	PI2 BPSK	1	137		26.00		27.5	0.0
100	PI2 BPSK	1	271		26.03			
100	PI2 BPSK	133	0		25.51		27.0	0.5
100	PI2 BPSK	133	69		25.96		27.5	0.0
100	PI2 BPSK	133	133		25.50		27.0	0.5
100	PI2 BPSK	270	0		25.46			
100	QPSK	1	1		26.11			
100	QPSK	1	137		26.06		27.5	0.0
100	QPSK	1	271		26.04			
100	QPSK	133	0		25.98			
100	QPSK	133	69		26.08		27.5	0.0
100	QPSK	133	133		25.94			
100	QPSK	270	0		24.91		26.5	1.0
100	16QAM	1	1		24.69		26.5	1.0
100	64QAM	1	1		23.64		26.0	2.5
100	256QAM	1	1		21.31		23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	333312	633696	1368	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631000	633312	635696	1368	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	17.51	17.68	17.84	19.5	0.0
100	PI2 BPSK	1	137	17.59	17.72	17.83		
100	PI2 BPSK	1	271	17.62	17.71	17.88		
100	PI2 BPSK	138	0	17.57	17.65	17.87	19.5	0.0
100	PI2 BPSK	138	69	17.64	17.66	17.81	19.5	0.0
100	PI2 BPSK	138	138	17.62	17.73	17.87	19.5	0.0
100	PI2 BPSK	270	0	17.69	17.69	17.87		
100	QPSK	1	1	17.76	17.82	17.83		
100	QPSK	1	137	17.51	17.64	17.80	19.5	0.0
100	QPSK	1	271	17.82	17.86	17.77		
100	QPSK	138	0	17.68	17.78	17.66	19.5	0.0
100	QPSK	138	69	17.83	17.79	17.77		
100	QPSK	138	138	17.68	17.70	17.69		
100	QPSK	270	0	17.64	17.72	17.69	19.5	0.0
100	16QAM	1	1	17.46	17.71	17.80	19.5	0.0
100	64QAM	1	1	17.65	17.68	17.88	19.5	0.0
100	256QAM	1	1	17.50	17.62	17.59	19.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	17.76	17.78	17.74	19.5	0.0
Channel				86000	88000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	17.70	17.81	17.80	19.5	0.0
Channel				86500	8833.32		Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	17.67	17.84	17.74	19.5	0.0
Channel				86500	88000		Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	17.76	17.84	17.79	19.5	0.0
Channel				86000	88000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	17.73	17.84	17.73	19.5	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3844.88		
30	PI2 BPSK	1	1	17.71	17.87	17.75	19.5	0.0
Channel				84233	86000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	17.68	17.78	17.79	19.5	0.0

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	19.33	19.34	19.24	21.0	0.0
100	PI2 BPSK	1	137	19.40	19.33	19.33		
100	PI2 BPSK	1	271	19.39	19.41	19.41		
100	PI2 BPSK	138	0	19.28	19.37	19.38	21.0	0.0
100	PI2 BPSK	138	69	19.31	19.32	19.39	21.0	0.0
100	PI2 BPSK	138	138	19.31	19.32	19.39	21.0	0.0
100	PI2 BPSK	270	0	19.40	19.32			
100	QPSK	1	1	19.33	19.47	19.43		
100	QPSK	1	137	19.33	19.40	19.24	21.0	0.0
100	QPSK	1	271	19.37	19.33	19.40		
100	QPSK	138	0	19.26	19.34	19.37		
100	QPSK	138	69	19.26	19.45	19.39	21.0	0.0
100	QPSK	138	138	19.28	19.40	19.43		
100	QPSK	270	0	19.32	19.40	19.39	21.0	0.0
100	16QAM	1	1	19.36	19.37	19.36	21.0	0.0
100	64QAM	1	1	19.40	19.40	19.30	21.0	0.0
100	256QAM	1	1	19.42	19.31	19.45	21.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	19.31	19.26	19.38	21.0	0.0
Channel				86000	88000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	19.25	19.34	19.34	21.0	0.0
Channel				86500	8833.32		Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	19.30	19.39	19.30	21.0	0.0
Channel				86500	88000		Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	19.19	19.25	19.25	21.0	0.0
Channel				86000	88000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	19.25	19.31	19.27	21.0	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3844.88		
30	PI2 BPSK	1	1	19.27	19.31	19.39	21.0	0.0
Channel				84233	86000	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	19.29	19.29	19.25	21.0	0.0



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.02	18.02			
100	PI2 BPSK	1	137	18.07	18.07		19.5	0.0
100	PI2 BPSK	1	271	18.05	18.05			
100	PI2 BPSK	133	0	17.94	17.94		19.5	0.0
100	PI2 BPSK	133	69	18.00	18.00		19.5	0.0
100	PI2 BPSK	133	133	17.92	17.92		19.5	0.0
100	PI2 BPSK	270	0	18.00	18.00			
100	QPSK	1	1	18.11	18.11			
100	QPSK	1	137	18.02	18.02		19.5	0.0
100	QPSK	1	271	17.98	17.98			
100	QPSK	133	0	18.03	18.03		19.5	0.0
100	QPSK	133	69	18.09	18.09		19.5	0.0
100	QPSK	133	133	17.92	17.92		19.5	0.0
100	QPSK	270	0	18.07	18.07		19.5	0.0
100	16QAM	1	1	17.97	17.97		19.5	0.0
100	256QAM	1	1	17.94	17.94		19.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	17.82	17.81	17.76	19.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	17.78	17.85	17.75	19.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.87	17.80	17.79	19.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	17.84	17.75	17.75	19.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	17.88	17.78	17.76	19.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	17.89	17.84	17.82	19.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.93	17.81	17.74	19.5	0.0

Par27Q n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.00	18.00			
100	PI2 BPSK	1	137	18.03	18.03		21.0	0.0
100	PI2 BPSK	1	271	18.06	18.06			
100	PI2 BPSK	133	0	18.05	18.05		21.0	0.0
100	PI2 BPSK	133	69	18.01	18.01		21.0	0.0
100	PI2 BPSK	133	133	18.09	18.09		21.0	0.0
100	PI2 BPSK	270	0	18.03	18.03			
100	QPSK	1	1	18.05	18.05			
100	QPSK	1	137	18.01	18.01		21.0	0.0
100	QPSK	1	271	18.49	18.49			
100	QPSK	133	0	18.07	18.07		21.0	0.0
100	QPSK	133	69	18.00	18.00		21.0	0.0
100	QPSK	133	133	18.06	18.06		21.0	0.0
100	QPSK	270	0	18.01	18.01		21.0	0.0
100	16QAM	1	1	18.08	18.08		21.0	0.0
100	64QAM	1	1	18.42	18.42		21.0	0.0
100	256QAM	1	1	18.41	18.41		21.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.47	18.31	18.18	21.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.49	18.36	18.29	21.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.37	18.34	18.23	21.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.35	18.30	18.28	21.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.42	18.40	18.23	21.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.48	18.30	18.30	21.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.45	18.34	18.23	21.0	0.0



Par270 n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
				3790	3840	3900		
100	PI2 BPSK	1	1	23.30	23.38	23.35		
100	PI2 BPSK	1	137	23.26	23.31	23.29		
100	PI2 BPSK	1	271	23.26	23.35	23.38		
100	PI2 BPSK	138	0	23.38	23.37	23.35	25.0	0.0
100	PI2 BPSK	138	69	23.37	23.40	23.32	25.0	0.0
100	PI2 BPSK	138	138	23.23	23.27	23.25	25.0	0.0
100	PI2 BPSK	270	0	23.27	23.36	23.28		
100	QPSK	1	1	23.32	23.42	23.40		
100	QPSK	1	137	23.30	23.40	23.39	25.0	0.0
100	QPSK	1	271	23.37	23.39	23.34		
100	QPSK	138	0	23.32	23.34	23.27		
100	QPSK	138	69	23.12	23.20	23.17	25.0	0.0
100	QPSK	138	138	23.16	23.17	23.10		
100	QPSK	270	0	23.12	23.18	23.15	25.0	0.0
100	16QAM	1	1	23.26	23.29	23.22	25.0	0.0
100	64QAM	1	1	21.80	21.87	21.88	23.5	1.5
100	256QAM	1	1	19.92	20.03	19.91	21.5	3.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	23.18	23.28	23.14	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	23.31	23.26	23.13	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	23.20	23.25	23.20	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	23.29	23.19	23.27	25.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	23.29	23.27	23.26	25.0	0.0
Channel				84768	86000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3945.98		
30	PI2 BPSK	1	1	23.32	23.24	23.21	25.0	0.0
Channel				84733	85800	86966	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	23.19	23.25	23.19	25.0	0.0

Par270 n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
				3790	3840	3900		
100	PI2 BPSK	1	1	25.10	25.16	25.07		
100	PI2 BPSK	1	137	25.05	24.97	25.09		
100	PI2 BPSK	1	271	25.04	25.13	25.05		
100	PI2 BPSK	138	0	25.10	25.06	25.14	26.5	0.0
100	PI2 BPSK	138	69	25.09	25.16	25.08	26.5	0.0
100	PI2 BPSK	138	138	24.99	24.92	24.92	26.5	0.0
100	PI2 BPSK	270	0	25.04	25.11	25.04		
100	QPSK	1	1	25.03	25.17	25.07		
100	QPSK	1	137	25.05	25.07	25.14	26.5	0.0
100	QPSK	1	271	25.05	25.05	25.10		
100	QPSK	138	0	25.02	25.05	24.97		
100	QPSK	138	69	24.86	24.89	24.87	26.5	0.0
100	QPSK	138	138	24.85	24.81	24.87		
100	QPSK	270	0	24.90	24.91	24.89	26.5	0.0
100	16QAM	1	1	24.96	24.97	24.97	26.5	0.0
100	64QAM	1	1	23.35	23.37	23.34	25.0	1.5
100	256QAM	1	1	21.33	21.38	21.30	23.0	3.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	24.86	24.90	24.85	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	24.83	24.83	24.86	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	24.75	24.94	24.84	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	24.79	24.89	24.82	26.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	24.78	24.85	24.89	26.5	0.0
Channel				84768	86000	86232	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3945.98		
30	PI2 BPSK	1	1	24.73	24.86	24.90	26.5	0.0
Channel				84733	85800	86966	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	24.74	24.79	24.85	26.5	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.30	23.30	23.30	25.0	0.0
100	PI2 BPSK	1	137	23.32	23.32	23.32	25.0	0.0
100	PI2 BPSK	1	271	23.36	23.36	23.36	25.0	0.0
100	PI2 BPSK	135	0	23.33	23.33	23.33	25.0	0.0
100	PI2 BPSK	135	66	23.29	23.29	23.29	25.0	0.0
100	PI2 BPSK	135	138	23.22	23.22	23.22	25.0	0.0
100	PI2 BPSK	270	0	23.25	23.25	23.25	25.0	0.0
100	QPSK	1	1	23.29	23.29	23.29	25.0	0.0
100	QPSK	1	137	23.27	23.27	23.27	25.0	0.0
100	QPSK	1	271	23.31	23.31	23.31	25.0	0.0
100	QPSK	135	0	23.23	23.23	23.23	25.0	0.0
100	QPSK	135	66	23.28	23.28	23.28	25.0	0.0
100	QPSK	135	138	23.15	23.15	23.15	25.0	0.0
100	QPSK	270	0	23.20	23.20	23.20	25.0	0.0
100	64QAM	1	1	23.19	23.19	23.19	23.5	1.5
100	64QAM	1	1	21.79	19.96	21.5	23.5	3.5
100	256QAM	1	1	63300	63332	63366	Turn-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.07	23.18	23.02	25.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.16	23.14	23.11	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.12	23.21	23.13	25.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.14	23.25	23.13	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.09	23.25	23.14	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.16	23.25	23.02	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.17	23.25	23.07	25.0	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.10	25.10	25.10	26.5	0.0
100	PI2 BPSK	1	137	25.10	25.10	25.10	26.5	0.0
100	PI2 BPSK	1	271	25.10	25.10	25.10	26.5	0.0
100	PI2 BPSK	135	0	25.00	25.00	25.00	26.5	0.0
100	PI2 BPSK	135	66	25.08	25.08	25.08	26.5	0.0
100	PI2 BPSK	135	138	24.96	24.96	24.96	26.5	0.0
100	PI2 BPSK	270	0	25.06	25.06	25.06	26.5	0.0
100	QPSK	1	1	25.12	25.12	25.12	26.5	0.0
100	QPSK	1	137	25.00	25.00	25.00	26.5	0.0
100	QPSK	1	271	24.97	24.97	24.97	26.5	0.0
100	QPSK	135	0	25.03	25.03	25.03	26.5	0.0
100	QPSK	135	66	24.95	24.95	24.95	26.5	0.0
100	QPSK	135	138	24.82	24.82	24.82	26.5	0.0
100	QPSK	270	0	24.84	24.84	24.84	26.5	0.0
100	64QAM	1	1	24.91	24.91	24.91	26.5	0.0
100	64QAM	1	1	23.32	21.27	23.0	26.5	1.5
100	256QAM	1	1	63300	63332	63366	Turn-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.74	24.72	24.74	26.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.74	24.80	24.82	26.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.75	24.75	24.82	26.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.78	24.69	24.83	26.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.83	24.74	24.74	26.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.80	24.68	24.85	26.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.76	24.82	24.77	26.5	0.0



State 9 Power

n2_Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				372000	376000	380000			
Channel Frequency (MHz)				1860	1890	1920			
20	PI2 BPSK	1	1	23.92	23.97	23.84			
20	PI2 BPSK	1	53	23.91	23.95	23.88	25.0	0.0	
20	PI2 BPSK	1	104	23.92	23.92	23.86			
20	PI2 BPSK	50	0	23.89	23.90	23.83	25.0	0.0	
20	PI2 BPSK	50	28	23.94	23.88	23.91	25.0	0.0	
20	PI2 BPSK	50	56	23.90	23.89	23.83			
20	PI2 BPSK	100	0	23.85	23.85	23.85	25.0	0.0	
20	QPSK	1	1	23.85	23.99	23.91			
20	QPSK	1	53	23.91	23.88	23.85	25.0	0.0	
20	QPSK	1	104	23.97	23.97	23.92			
20	QPSK	50	0	23.96	23.97	23.94	25.0	0.0	
20	QPSK	50	28	23.95	23.97	23.90	25.0	0.0	
20	QPSK	50	56	23.95	23.88	23.84	25.0	0.0	
20	QPSK	100	0	23.85	23.99	23.91			
20	16QAM	1	1	23.82	23.87	23.89	25.0	0.0	
20	16QAM	1	1	22.34	22.37	22.35	23.5	1.5	
20	256QAM	1	1	20.29	20.32	20.22	21.5	3.5	
Channel Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1857.5	1890	1902.5			
15	PI2 BPSK	1	1	23.86	23.94	23.90	25.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1855	1890	1900			
10	PI2 BPSK	1	1	23.86	23.98	23.93	25.0	0.0	
Channel Frequency (MHz)				370000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1842.5	1890	1907.5			
5	PI2 BPSK	1	1	23.84	23.97	23.93	25.0	0.0	

n2_Ant2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				372000	376000	380000			
Channel Frequency (MHz)				1860	1890	1920			
20	PI2 BPSK	1	1	24.84	24.95	24.92			
20	PI2 BPSK	1	53	24.82	24.92	24.79	26.0	0.0	
20	PI2 BPSK	1	104	24.81	24.82	24.74			
20	PI2 BPSK	50	0	24.36	24.39	24.28	25.5	0.5	
20	PI2 BPSK	50	28	24.72	24.84	24.79	26.0	0.0	
20	PI2 BPSK	50	56	24.32	24.34	24.33			
20	PI2 BPSK	100	0	24.27	24.30	24.20	25.5	0.5	
20	QPSK	1	1	24.95	25.01	24.92			
20	QPSK	1	53	24.92	24.93	24.88	26.0	0.0	
20	QPSK	1	104	24.92	24.90	24.91			
20	QPSK	50	0	23.78	23.79	23.76	26.0	0.0	
20	QPSK	50	28	24.80	24.86	24.78	26.0	0.0	
20	QPSK	50	56	23.70	23.81	23.69	26.0	0.0	
20	QPSK	100	0	23.72	23.84	23.79			
20	16QAM	1	1	22.37	22.40	22.34	23.0	1.0	
20	16QAM	1	1	22.17	22.19	22.07	23.5	2.5	
20	256QAM	1	1	20.51	20.56	20.41	21.5	4.5	
Channel Frequency (MHz)				371000	376000	380000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1857.5	1890	1902.5			
15	PI2 BPSK	1	1	24.83	24.91	24.88	26.0	0.0	
Channel Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1855	1890	1900			
10	PI2 BPSK	1	1	24.84	24.94	24.89	26.0	0.0	
Channel Frequency (MHz)				370000	376000	381000	Tune-up limit (dBm)	MRR (dB)	
Channel Frequency (MHz)				1842.5	1890	1907.5			
5	PI2 BPSK	1	1	24.91	24.87	24.86	26.0	0.0	



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			1800	1800	1800		
20	PI2 BPSK	1	1	22.61	22.62	22.52		0.0
20	PI2 BPSK	1	53	22.56	22.63	22.53	23.5	
20	PI2 BPSK	1	104	22.54	22.62	22.52		
20	PI2 BPSK	50	0	22.05	22.18	22.13	23.0	0.5
20	PI2 BPSK	50	28	22.65	22.66	22.54	23.5	0.0
20	PI2 BPSK	50	56	22.05	22.19	22.11	23.0	0.5
20	PI2 BPSK	100	0	22.16	22.17	22.10		
20	QPSK	1	1	22.73	22.76	22.75		
20	QPSK	1	53	22.59	22.70	22.58	23.5	0.0
20	QPSK	1	104	22.59	22.65	22.55		
20	QPSK	50	0	21.58	21.69	21.56	23.5	0.0
20	QPSK	50	28	22.80	22.64	22.63	23.5	0.0
20	QPSK	50	56	21.59	21.62	21.61	23.5	0.0
20	QPSK	100	0	21.56	21.63	21.62		
20	16QAM	1	1	21.09	21.78	21.64	23.5	1.0
20	64QAM	1	1	20.29	20.34	20.32	21.0	2.5
20	256QAM	1	1	17.95	18.05	18.04	19.0	4.5
	Channel Frequency (MHz)			37000	37600	38000	Tune-up limit (dBm)	MRR (dB)
	Channel Frequency (MHz)			1800	1800	1900		
15	PI2 BPSK	1	1	22.56	22.64	22.54	23.5	0.0
	Channel Frequency (MHz)			371000	376000	381000	Tune-up limit (dBm)	MRR (dB)
	Channel Frequency (MHz)			1800	1800	1900		
10	PI2 BPSK	1	1	22.57	22.64	22.58	23.5	0.0
	Channel Frequency (MHz)			370000	376000	381000	Tune-up limit (dBm)	MRR (dB)
	Channel Frequency (MHz)			1800	1800	1900		
5	PI2 BPSK	1	1	22.54	22.62	22.58	23.5	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			16000	167000	167000		
	Channel Frequency (MHz)			800	800	800		
20	PI2 BPSK	1	1	24.49	24.51	24.43		
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	0.0
20	PI2 BPSK	1	104	24.40	24.45	24.40		
20	PI2 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	PI2 BPSK	50	28	24.46	24.46	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.60		
20	QPSK	1	53	24.56	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.51	23.54	23.42	25.0	1.0
20	QPSK	50	28	24.43	24.52	24.41	25.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	25.0	1.0
20	QPSK	100	0	23.39	23.46	23.33		
20	16QAM	1	1	23.56	23.58	23.48	23.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
	Channel Frequency (MHz)			160000	167000	168000	Tune-up limit (dBm)	MRR (dB)
	Channel Frequency (MHz)			800	800	800		
15	PI2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0
	Channel Frequency (MHz)			160000	167000	168000	Tune-up limit (dBm)	MRR (dB)
	Channel Frequency (MHz)			800	800	800		
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0
	Channel Frequency (MHz)			160000	167000	168000	Tune-up limit (dBm)	MRR (dB)
	Channel Frequency (MHz)			800	800	800		
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			168300	167300	167900		
				831.5	838.5	833		
20	PI2 BPSK	1	1	24.49	24.51	24.43		0.0
20	PI2 BPSK	1	53	24.32	24.45	24.32	26.0	
20	PI2 BPSK	1	104	24.40	24.45	24.40		
20	PI2 BPSK	50	0	23.99	24.02	24.00	26.5	0.5
20	PI2 BPSK	50	26	24.46	24.53	24.41	26.0	0.0
20	PI2 BPSK	50	56	23.94	23.99	23.92	26.5	0.5
20	PI2 BPSK	100	0	23.91	23.95	23.85		
20	QPSK	1	1	24.63	24.71	24.60		0.0
20	QPSK	1	53	24.56	24.66	24.57	26.0	
20	QPSK	1	104	24.60	24.65	24.55		
20	QPSK	50	0	23.51	23.54	23.42	26.0	1.0
20	QPSK	50	26	24.43	24.52	24.44	26.0	0.0
20	QPSK	50	56	23.34	23.43	23.34	26.0	1.0
20	QPSK	100	0	23.39	23.46	23.33		
20	16QAM	1	1	23.56	23.58	23.48	26.0	1.0
20	64QAM	1	1	21.66	21.81	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
	Channel Frequency (MHz)			168300	167300	168300	Tune-up limit (dBm)	MRR (dB)
				831.5	838.5	841.5		
15	PI2 BPSK	1	1	24.56	24.64	24.60	26.0	0.0
	Channel Frequency (MHz)			168300	167300	168300	Tune-up limit (dBm)	MRR (dB)
				831.5	838.5	844		
10	PI2 BPSK	1	1	24.56	24.63	24.59	26.0	0.0
	Channel Frequency (MHz)			168300	167300	168300	Tune-up limit (dBm)	MRR (dB)
				831.5	838.5	846.5		
5	PI2 BPSK	1	1	24.56	24.61	24.65	26.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
	Channel Frequency (MHz)			505000	507000	512000		
				2910	2935	2950		
20	PI2 BPSK	1	1	21.77	21.75	21.69		
20	PI2 BPSK	1	53	21.82	21.84	21.83	22.5	0.0
20	PI2 BPSK	1	104	21.76	21.81	21.71		
20	PI2 BPSK	50	0	21.78	21.73	21.72	22.5	0.0
20	PI2 BPSK	50	26	21.76	21.71	21.77	22.5	0.0
20	PI2 BPSK	50	56	21.73	21.70	21.74	22.5	0.0
20	PI2 BPSK	100	0	21.67	21.72	21.70		
20	QPSK	1	1	21.80	21.88	21.79		
20	QPSK	1	53	21.82	21.82	21.72	22.5	0.0
20	QPSK	1	104	21.74	21.80	21.75		
20	QPSK	50	0	21.71	21.67	21.74	22.5	0.0
20	QPSK	50	26	21.83	21.69	21.54	22.5	0.0
20	QPSK	50	56	21.67	21.65	21.59	22.5	0.0
20	QPSK	100	0	21.64	21.70	21.58		
20	16QAM	1	1	21.76	21.81	21.68	22.5	0.0
20	64QAM	1	1	21.44	21.47	21.51	22.5	0.0
20	256QAM	1	1	20.63	20.69	20.70	21.5	1.0
	Channel Frequency (MHz)			505000	507000	512000	Tune-up limit (dBm)	MRR (dB)
				2910	2935	2950		
15	PI2 BPSK	1	1	21.76	21.71	21.67	22.5	0.0
	Channel Frequency (MHz)			505000	507000	513000	Tune-up limit (dBm)	MRR (dB)
				2910	2935	2950		
10	PI2 BPSK	1	1	21.68	21.68	21.77	22.5	0.0
	Channel Frequency (MHz)			505000	507000	513000	Tune-up limit (dBm)	MRR (dB)
				2910	2935	2975		
5	PI2 BPSK	1	1	21.74	21.74	21.68	22.5	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid-High Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				507000	507000	512000		
20	PI2 BPSK	1	1	24.86	24.95	24.94		0.0
20	PI2 BPSK	1	53	24.81	24.91	24.86	26.0	
20	PI2 BPSK	1	104	24.84	24.93	24.87		
20	PI2 BPSK	50	0	24.82	24.90	24.80	25.5	0.5
20	PI2 BPSK	50	28	24.32	24.39	24.33	26.0	0.0
20	PI2 BPSK	50	56	24.36	24.45	24.38		
20	PI2 BPSK	100	0	24.30	24.43	24.34	25.5	0.5
20	QPSK	1	1	24.96	24.97	24.91		
20	QPSK	1	53	24.82	24.91	24.85	26.0	0.0
20	QPSK	1	104	24.83	24.93	24.92		
20	QPSK	50	0	23.92	24.04	23.93	26.0	0.0
20	QPSK	50	28	24.86	24.91	24.86	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.90	26.0	0.0
20	QPSK	100	0	23.88	23.95	23.83	26.0	0.0
20	16QAM	1	1	23.80	23.92	23.91	26.0	1.0
20	16QAM	1	1	22.31	22.35	22.33	23.5	2.5
20	256QAM	1	1	20.53	20.57	20.51	21.5	4.5
Channel Frequency (MHz)				507000	507000	512000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2507.5	2507.5	2507.5		
15	PI2 BPSK	1	1	24.81	24.90	24.87	26.0	0.0
Channel Frequency (MHz)				507000	507000	513000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2505	2505	2505		
10	PI2 BPSK	1	1	24.74	24.86	24.87	26.0	0.0
Channel Frequency (MHz)				500000	507000	513000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2502.5	2505	2507.5		
5	PI2 BPSK	1	1	24.75	24.82	24.84	26.0	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid-High Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				141300	141600	141700		
Channel Frequency (MHz)				701.5	707.5	708.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	0.0
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	25.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.60	23.78	23.75	25.5	0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.46	24.38		
15	QPSK	1	40	24.30	24.38	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	25.0	1.0
15	QPSK	36	22	24.16	24.28	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	75	0	23.21	23.26	23.23	26.0	0.0
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	16QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel Frequency (MHz)				140000	141600	142200	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				704	707.5	711		
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel Frequency (MHz)				140000	141600	142700	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				701.5	707.5	713.5		
5	PI2 BPSK	1	1	24.27	24.36	24.26	26.0	0.0



n12_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				141300	141500	141700		
				707.5	707.5	707.5		
15	PI2 BPSK	1	1	24.30	24.39	24.30		0.0
15	PI2 BPSK	1	40	24.25	24.32	24.22	26.0	
15	PI2 BPSK	1	77	24.33	24.37	24.33		
15	PI2 BPSK	36	0	23.71	23.82	23.81	26.5	0.5
15	PI2 BPSK	36	22	24.19	24.32	24.24	26.0	0.0
15	PI2 BPSK	36	43	23.66	23.78	23.75		0.5
15	PI2 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.30	24.38	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.33	23.31	26.0	1.0
15	QPSK	36	22	24.16	24.28	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	26.0	1.0
15	QPSK	75	0	23.21	23.25	23.23		
15	16QAM	1	1	23.06	23.18	23.07	26.0	1.0
15	16QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel Frequency (MHz)				141600	141600	142200	Tune-up limit (dBm)	MRR (dB)
				704	707.5	711		
10	PI2 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel Frequency (MHz)				140300	141600	142700	Tune-up limit (dBm)	MRR (dB)
				707.5	707.5	713.5		
5	PI2 BPSK	1	1	24.27	24.35	24.26	26.0	0.0

n25_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				372000	376000	381000		
				1860	1862.5	1865		
20	PI2 BPSK	1	1	23.97	23.89	23.99		
20	PI2 BPSK	1	53	24.06	24.13	24.02	25.0	0.0
20	PI2 BPSK	1	104	24.00	24.04	23.96		
20	PI2 BPSK	50	0	24.11	24.13	24.10	26.0	0.0
20	PI2 BPSK	50	26	24.07	24.11	24.08	26.0	0.0
20	PI2 BPSK	50	56	23.96	23.95	24.01		
20	PI2 BPSK	100	0	23.79	23.54	23.85	26.0	0.0
20	QPSK	1	1	23.99	24.24	24.04		
20	QPSK	1	53	23.97	23.84	23.66	26.0	0.0
20	QPSK	1	104	23.98	23.54	23.95		
20	QPSK	50	0	23.97	24.09	23.88	26.0	0.0
20	QPSK	50	26	23.83	24.13	23.92	26.0	0.0
20	QPSK	50	56	23.87	24.05	23.97	26.0	0.0
20	QPSK	100	0	23.85	24.11	23.85		
20	16QAM	1	1	23.85	23.82	23.89	26.0	0.0
20	16QAM	1	1	22.33	22.43	22.35	23.5	1.5
20	256QAM	1	1	20.69	20.70	20.75	21.5	3.5
Channel Frequency (MHz)				371500	376000	381000	Tune-up limit (dBm)	MRR (dB)
				1857.5	1862.5	1907.5		
15	PI2 BPSK	1	1	24.00	24.13	24.01	26.0	0.0
Channel Frequency (MHz)				371000	376000	382000	Tune-up limit (dBm)	MRR (dB)
				1855	1862.5	1910		
10	PI2 BPSK	1	1	23.94	24.10	24.06	26.0	0.0
Channel Frequency (MHz)				370500	376000	382000	Tune-up limit (dBm)	MRR (dB)
				1852.5	1862.5	1912.5		
5	PI2 BPSK	1	1	23.95	24.19	24.06	26.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				372000	376000	381000		
				1860	1892.5	1925		
20	PI2 BPSK	1	1	24.87	24.88	24.85		
20	PI2 BPSK	1	53	24.73	24.79	24.70	26.0	0.0
20	PI2 BPSK	1	104	24.76	24.84	24.74		
20	PI2 BPSK	50	0	24.82	24.85	24.81	26.5	0.5
20	PI2 BPSK	50	26	24.72	24.81	24.79	26.0	0.0
20	PI2 BPSK	50	56	24.16	24.21	24.23	26.5	0.5
20	PI2 BPSK	100	0	24.30	24.33	24.28		
20	QPSK	1	1	24.91	25.06	24.83		
20	QPSK	1	53	24.84	24.86	24.81	26.0	0.0
20	QPSK	1	104	24.78	24.91	24.82		
20	QPSK	50	0	23.85	23.96	23.88	26.0	1.0
20	QPSK	50	26	24.90	24.91	24.82	26.0	0.0
20	QPSK	50	56	23.95	24.01	23.98	26.0	1.0
20	QPSK	100	0	24.05	24.11	24.00		
20	16QAM	1	1	23.94	24.05	24.03	26.0	1.0
20	64QAM	1	1	22.30	22.33	22.28	23.5	2.5
20	256QAM	1	1	20.49	20.62	20.59	21.5	4.5
Channel Frequency (MHz)				371500	376000	381000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1857.5	1892.5	1907.5		
15	PI2 BPSK	1	1	24.79	24.87	24.87	26.0	0.0
Channel Frequency (MHz)				371000	376000	382000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1855	1892.5	1910		
10	PI2 BPSK	1	1	24.83	24.88	24.86	26.0	0.0
Channel Frequency (MHz)				370500	376000	382000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1862.5	1892.5	1912.5		
5	PI2 BPSK	1	1	24.76	24.86	24.86	26.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel Frequency (MHz)				372000	376000	381000		
				1860	1892.5	1925		
20	PI2 BPSK	1	1	22.47	22.51	22.45		
20	PI2 BPSK	1	53	22.44	22.49	22.47	23.5	0.0
20	PI2 BPSK	1	104	22.40	22.52	22.45		
20	PI2 BPSK	50	0	22.00	22.09	21.97	23.0	0.5
20	PI2 BPSK	50	26	22.43	22.56	22.43	23.5	0.0
20	PI2 BPSK	50	56	22.00	22.06	21.93	23.0	0.5
20	PI2 BPSK	100	0	22.11	22.13	22.12		
20	QPSK	1	1	22.52	22.62	22.52		
20	QPSK	1	53	22.42	22.51	22.46	23.5	0.0
20	QPSK	1	104	22.42	22.53	22.43		
20	QPSK	50	0	21.57	21.65	21.57	22.5	1.0
20	QPSK	50	26	22.44	22.56	22.48	23.5	0.0
20	QPSK	50	56	21.47	21.56	21.44	22.5	1.0
20	QPSK	100	0	21.66	21.68	21.59		
20	16QAM	1	1	21.58	21.69	21.54	23.5	1.0
20	64QAM	1	1	20.16	20.24	20.15	21.0	2.5
20	256QAM	1	1	18.03	18.16	18.07	19.0	4.5
Channel Frequency (MHz)				371500	376000	381000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1857.5	1892.5	1907.5		
15	PI2 BPSK	1	1	22.39	22.48	22.43	23.5	0.0
Channel Frequency (MHz)				371000	376000	382000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1855	1892.5	1910		
10	PI2 BPSK	1	1	22.35	22.50	22.40	23.5	0.0
Channel Frequency (MHz)				370500	376000	382000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1862.5	1892.5	1912.5		
5	PI2 BPSK	1	1	22.36	22.44	22.44	23.5	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				16300	16300	16300		
				54	831.5	833		
20	PI2 BPSK	1	1	24.46	24.53	24.50		0.0
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.92	23.85	25.5	0.5
20	PI2 BPSK	50	26	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.96	23.97	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	26	24.26	24.32	24.23	25.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
				811.5	811.5	811.5		
15	PI2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
				811	831.5	844		
10	PI2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
				811.5	831.5	846.5		
5	PI2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				16300	16300	16300		
				54	831.5	833		
20	PI2 BPSK	1	1	24.46	24.53	24.50		0.0
20	PI2 BPSK	1	53	24.30	24.38	24.27	26.0	0.0
20	PI2 BPSK	1	104	24.42	24.45	24.41		
20	PI2 BPSK	50	0	23.81	23.92	23.85	25.5	0.5
20	PI2 BPSK	50	26	24.26	24.30	24.25	26.0	0.0
20	PI2 BPSK	50	56	23.96	23.97	23.77	25.5	0.5
20	PI2 BPSK	100	0	23.72	23.78	23.67		
20	QPSK	1	1	24.46	24.77	24.56		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	26	24.26	24.32	24.23	25.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24		
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
				811.5	831.5	841.5		
15	PI2 BPSK	1	1	24.38	24.43	24.40	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
				811	831.5	844		
10	PI2 BPSK	1	1	24.43	24.39	24.42	26.0	0.0
Channel Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MRR (dB)
				811.5	831.5	846.5		
5	PI2 BPSK	1	1	24.37	24.42	24.36	26.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				492000	492000	492000		
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	26	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31			22.0	0.5
10	PI2 BPSK	25	0	20.07			22.5	0.0
10	PI2 BPSK	25	14	21.27			22.0	0.5
10	PI2 BPSK	25	27	20.78			22.5	0.0
10	PI2 BPSK	50	0	20.50			22.5	0.0
10	QPSK	1	1	21.40			22.5	0.0
10	QPSK	1	26	21.24				
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.38			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	16QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1		18.68		18.0	4.5
Channel Frequency (MHz)				491500	492000	492500	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				492000	492000	492000		
10	PI2 BPSK	1	1	21.29				
10	PI2 BPSK	1	26	21.30			22.5	0.0
10	PI2 BPSK	1	50	21.31			22.0	0.5
10	PI2 BPSK	25	0	20.07			22.5	0.0
10	PI2 BPSK	25	14	21.27			22.0	0.5
10	PI2 BPSK	25	27	20.78			22.5	0.0
10	PI2 BPSK	50	0	20.50			22.5	0.0
10	QPSK	1	1	21.40			22.5	0.0
10	QPSK	1	26	21.24				
10	QPSK	1	50	21.33				
10	QPSK	25	0	20.22			21.5	1.0
10	QPSK	25	14	21.38			22.5	0.0
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.31			21.5	1.0
10	16QAM	1	1	20.23			21.5	1.0
10	16QAM	1	1	18.67			20.0	2.5
10	256QAM	1	1		18.68		18.0	4.5
Channel Frequency (MHz)				491500	492000	492500	Tune-up limit (dBm)	MRR (dB)
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2310	462000			
10	PI2 BPSK	1	1	21.84				
10	PI2 BPSK	1	26	21.96			23.5	0.0
10	PI2 BPSK	1	50	21.84				
10	PI2 BPSK	25	0	21.36			23.0	0.5
10	PI2 BPSK	25	14	21.84			23.5	0.0
10	PI2 BPSK	25	27	21.30				
10	PI2 BPSK	50	0	21.36			23.0	0.5
10	QPSK	1	1	21.09				
10	QPSK	1	26	21.50			23.5	0.0
10	QPSK	1	50	21.50				
10	QPSK	25	0	20.82			22.5	1.0
10	QPSK	25	14	21.88			23.5	0.0
10	QPSK	25	27	20.84			22.5	1.0
10	QPSK	50	0	20.86				
10	16QAM	1	1	21.07			23.5	1.0
10	16QAM	1	1	19.33			21.0	2.5
10	256QAM	1	1	17.33			19.0	4.5
Channel Frequency (MHz)				481500	462000	462000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				2307.5	2310	2312.5		
5	PI2 BPSK	1	1	21.92	21.94	21.91	23.5	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				345000	349000	353000		
Channel Frequency (MHz)				172.5	174.5	176.5		
30	PI2 BPSK	1	1	24.69	24.81	24.69		
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	0.0
30	PI2 BPSK	1	158	24.76	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08	25.5	0.5
30	PI2 BPSK	160	0	24.09	24.16	24.13		
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.86	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.64	24.72		
30	QPSK	80	0	23.70	23.79	23.76	25.0	1.0
30	QPSK	80	40	24.73	24.88	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.69	23.68		
30	16QAM	1	1	23.56	23.70	23.64	25.0	1.0
30	64QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel Frequency (MHz)				445000	445000	445000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1700	1746	1770		
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1711.5	1745	1772.5		
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1715	1745	1772.5		
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MRR (dB)
Channel Frequency (MHz)				1712.5	1745	1772.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Mid-High Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				345000	349000	353000		
				172.5	172.5	172.5		
30	PI2 BPSK	1	1	24.69	24.81	24.69		0.0
30	PI2 BPSK	1	80	24.65	24.75	24.63	26.0	
30	PI2 BPSK	1	158	24.76	24.79	24.68		
30	PI2 BPSK	80	0	24.16	24.22	24.13	26.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.08		
30	PI2 BPSK	160	0	24.09	24.16	24.13	26.5	0.5
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.86	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.73	24.88	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	26.0	1.0
30	QPSK	160	0	23.61	23.69	23.68	26.0	1.0
30	16QAM	1	1	23.56	23.70	23.64	26.0	1.0
30	16QAM	1	1	22.10	22.23	22.22	23.5	2.5
30	256QAM	1	1	20.44	20.45	20.36	21.5	4.5
Channel Frequency (MHz)				348000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1720	1725	1770		
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
				17212.5	17265	17222.5		
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
				1715	1725	1725		
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
				1722.5	1725	1722.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq	Mid-High Ch / Freq	High Ch / Freq		
Channel Frequency (MHz)				345000	349000	353000		
				172.5	172.5	172.5		
30	PI2 BPSK	1	1	22.06	22.18	22.11		
30	PI2 BPSK	1	80	22.17	22.26	22.07	23.5	0.0
30	PI2 BPSK	1	158	21.90	22.02	21.96		
30	PI2 BPSK	80	0	21.68	21.76	21.69	23.0	0.5
30	PI2 BPSK	80	40	22.11	22.23	22.18	23.5	0.0
30	PI2 BPSK	80	80	21.68	21.70	21.62		
30	PI2 BPSK	160	0	21.64	21.67	21.64	23.0	0.5
30	QPSK	1	1	22.15	22.24	22.11		
30	QPSK	1	80	22.11	22.17	22.08	23.5	0.0
30	QPSK	1	158	22.07	22.14	22.05		
30	QPSK	80	0	21.13	21.25	21.12	22.5	1.0
30	QPSK	80	40	22.16	22.23	22.16	23.5	0.0
30	QPSK	80	80	21.14	21.15	21.13	22.5	1.0
30	QPSK	160	0	21.16	21.27	21.18	23.5	1.0
30	16QAM	1	1	21.39	21.46	21.39	23.5	1.0
30	16QAM	1	1	19.73	19.79	19.73	21.0	2.5
30	256QAM	1	1	17.88	17.81	17.66	19.0	4.5
Channel Frequency (MHz)				348000	349000	350000	Tune-up limit (dBm)	MPR (dB)
				1720	1726	1770		
20	PI2 BPSK	1	1	22.10	22.13	21.99	23.5	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
				17212.5	17265	17222.5		
15	PI2 BPSK	1	1	22.02	22.16	22.02	23.5	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
				1715	1725	1725		
10	PI2 BPSK	1	1	22.09	22.10	22.04	23.5	0.0
Channel Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
				1722.5	1725	1722.5		
5	PI2 BPSK	1	1	22.03	22.08	22.03	23.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.71	24.74	24.70	20.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63	20.0	0.0
20	PI2 BPSK	1	104	24.66	24.71	24.65	20.0	0.0
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	25.5	0.5
20	QPSK	1	1	24.70	24.82	24.73	26.0	0.0
20	QPSK	1	53	24.52	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.58	26.0	0.0
20	QPSK	50	0	23.67	23.74	23.61	26.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	26.0	1.0
20	QPSK	100	0	23.52	23.63	23.57	26.0	1.0
20	16QAM	1	1	24.10	24.12	24.12	23.5	2.5
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.71	24.74	24.70	20.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63	20.0	0.0
20	PI2 BPSK	1	104	24.66	24.71	24.65	20.0	0.0
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	28	24.50	24.59	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	25.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	25.5	0.5
20	QPSK	1	1	24.70	24.82	24.73	26.0	0.0
20	QPSK	1	53	24.52	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.58	26.0	0.0
20	QPSK	50	0	23.67	23.74	23.61	26.0	1.0
20	QPSK	50	28	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	26.0	1.0
20	QPSK	100	0	23.52	23.63	23.57	26.0	1.0
20	16QAM	1	1	24.10	24.12	24.12	23.5	2.5
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.56	20.59	20.55	21.5	4.5
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2585	2600		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2585	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				116500	116500	500000		
				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.65	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.78	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	64QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2585	2585	2600		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				116500	116500	500000	Linkup limit (dBm)	1.5x
Frequency (MHz)				2580	2585	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	16QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516600	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505200	516598	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2526	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505200	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				502200	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	16QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516600	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505200	516598	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2526	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2664.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505200	518096	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				502200	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2411	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2556.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80	22.5	0.0
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80	22.5	0.0
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	846668	846732		
40	PI2 BPSK	1	1	16.12	16.14	16.06		
40	PI2 BPSK	1	53	16.11	16.16	16.05	17.5	0.0
40	PI2 BPSK	1	104	16.15	16.16	16.08		
40	PI2 BPSK	50	0	16.13	16.17	16.11	17.5	0.0
40	PI2 BPSK	50	26	16.08	16.22	16.08	17.5	0.0
40	PI2 BPSK	50	56	16.09	16.20	16.07	17.5	0.0
40	PI2 BPSK	100	0	16.10	16.20	16.11		
40	QPSK	1	1	16.24	16.25	16.19		
40	QPSK	1	53	16.16	16.20	16.17	17.5	0.0
40	QPSK	1	104	16.18	16.22	16.15		
40	QPSK	50	0	16.07	16.18	16.12		
40	QPSK	50	26	16.16	16.23	16.13	17.5	0.0
40	QPSK	50	56	16.13	16.15	16.10		
40	QPSK	100	0	16.14	16.19	16.08	17.5	0.0
40	64QAM	1	1	16.08	16.22	16.12	17.5	0.0
40	64QAM	1	1	16.15	16.21	16.05	17.5	0.0
40	256QAM	1	1	16.13	16.20	16.06	17.5	0.0
Channel				837238	846668	846668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3824.99	3884.99		
30	PI2 BPSK	1	1	16.15	16.15	16.07	17.5	0.0
Channel				838238	846668	846668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3824.99	3890		
20	PI2 BPSK	1	1	16.11	16.15	16.09	17.5	0.0
Channel				838188	846668	846668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3824.99	3892.49		
15	PI2 BPSK	1	1	16.13	16.20	16.12	17.5	0.0
Channel				838100	846668	846732	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3824.99	3894.98		
10	PI2 BPSK	1	1	16.09	16.15	16.10	17.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	846668	846732		
40	PI2 BPSK	1	1	21.22	21.16	21.14		
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	0.0
40	PI2 BPSK	1	104	21.25	21.23	21.20		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	20.18	21.28	21.18	22.0	0.0
40	PI2 BPSK	50	56	20.62	20.64	20.66	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60		
40	QPSK	50	26	21.18	21.20	21.19	22.5	0.0
40	QPSK	50	56	20.62	20.62	20.60		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	64QAM	1	1	18.97	20.03	18.99	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.36	18.50	18.55	18.0	4.5
Channel				837238	846668	846668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3824.99	3884.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				838238	846668	846668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3824.99	3890		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				838188	846668	846668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3824.99	3892.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				838100	846668	846732	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3824.99	3894.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	138	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.0	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	138	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3700	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3859.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	24.42			
100	PI2 BPSK	1	137		24.41	63300	26.0	0.0
100	PI2 BPSK	1	271		24.45			
100	PI2 BPSK	133	0		23.93		25.5	0.5
100	PI2 BPSK	133	69		24.31		25.9	0.0
100	PI2 BPSK	133	133		24.15		25.5	0.5
100	PI2 BPSK	270	0		24.01			
100	QPSK	1	1		24.53			
100	QPSK	1	137		24.28		26.0	0.0
100	QPSK	1	271		24.32			
100	QPSK	133	0		24.14			
100	QPSK	133	69		24.59		26.0	0.0
100	QPSK	133	133		24.26			
100	QPSK	270	0		23.62		25.0	1.0
100	16QAM	1	1		23.66		25.0	1.0
100	64QAM	1	1		21.81		23.5	2.5
100	256QAM	1	1		19.83		21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	24.17	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	24.23	24.31	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	24.20	24.23	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	24.28	24.24	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3460.02	24.21	24.23	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3450.02	24.21	24.23	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3499.98	25.99			
100	PI2 BPSK	1	137		26.00	63300	27.5	0.0
100	PI2 BPSK	1	271		26.03			
100	PI2 BPSK	133	0		25.51		27.0	0.5
100	PI2 BPSK	133	69		25.96		27.5	0.0
100	PI2 BPSK	133	133		25.50		27.0	0.5
100	PI2 BPSK	270	0		25.46			
100	QPSK	1	1		26.11			
100	QPSK	1	137		26.06		27.5	0.0
100	QPSK	1	271		26.04			
100	QPSK	133	0		25.98			
100	QPSK	133	69		26.08		27.5	0.0
100	QPSK	133	133		25.84			
100	QPSK	270	0		24.91		26.5	1.0
100	16QAM	1	1		24.69		26.5	1.0
100	64QAM	1	1		23.64		25.0	2.5
100	256QAM	1	1		21.31		23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	25.92	25.96	26.87	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	3490.02	26.00	26.04	25.90	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	3480	25.97	26.04	25.86	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	3475.02	26.01	26.03	25.89	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	3470.01	26.01	26.02	25.94	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	3460.02	26.02	26.00	25.93	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	3450.02	25.98	26.05	25.89	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20	26.0	0.0
100	PI2 BPSK	1	271	24.16	24.22	24.18	26.0	0.0
100	PI2 BPSK	133	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	133	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	133	133	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66	26.0	0.0
100	QPSK	1	1	24.33	24.30	24.30	26.0	0.0
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06	26.0	0.0
100	QPSK	133	0	24.12	24.23	24.22	26.0	0.0
100	QPSK	133	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	133	133	24.11	24.16	24.09	26.0	0.0
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.23	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	26.0	0.0
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	26.0	0.0
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	26.0	0.0
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	26.0	0.0
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	26.0	0.0
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88	26.0	0.0
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99	26.0	0.0
20	PI2 BPSK	1	1	24.09	24.17	24.12	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)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04	27.5	0.0
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90	27.0	0.5
100	PI2 BPSK	133	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	133	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48	27.5	0.0
100	QPSK	1	1	25.99	26.02	26.05	27.5	0.0
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87	27.5	0.0
100	QPSK	133	0	25.87	25.89	25.77	27.5	0.0
100	QPSK	133	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	133	133	25.70	25.76	25.68	26.5	1.0
100	QPSK	270	0	24.96	24.97	24.87	25.0	1.0
100	16QAM	1	1	24.92	24.99	24.76	25.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98	27.5	0.0
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99	27.5	0.0
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98	27.5	0.0
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99	27.5	0.0
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900	27.5	0.0
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84768	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.88	27.5	0.0
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84733	85800	86066	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99	27.5	0.0
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.42			26.0	0.0
100	PI2 BPSK	1	137	24.41				
100	PI2 BPSK	1	271	24.45				
100	PI2 BPSK	133	0	23.93			25.5	0.5
100	PI2 BPSK	133	69	24.31			26.0	0.0
100	PI2 BPSK	133	133	24.15			25.5	0.5
100	PI2 BPSK	270	0	24.01				
100	QPSK	1	1	24.53				
100	QPSK	1	137	24.28			26.0	0.0
100	QPSK	1	271	24.32				
100	QPSK	133	0	24.14				
100	QPSK	133	69	24.59			26.0	0.0
100	QPSK	133	133	24.26				
100	QPSK	270	0	23.62			25.0	1.0
100	16QAM	1	1	23.66			24.5	1.0
100	64QAM	1	1	21.81			23.5	2.5
100	256QAM	1	1	19.83			21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.17	24.23	24.16	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.25	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.31	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.99			27.5	0.0
100	PI2 BPSK	1	137	26.00				
100	PI2 BPSK	1	271	26.03				
100	PI2 BPSK	133	0	25.51			27.0	0.5
100	PI2 BPSK	133	69	25.96			27.5	0.0
100	PI2 BPSK	133	133	25.50			27.0	0.5
100	PI2 BPSK	270	0	25.46				
100	QPSK	1	1	26.11				
100	QPSK	1	137	26.06			27.5	0.0
100	QPSK	1	271	26.04				
100	QPSK	133	0	25.98				
100	QPSK	133	69	26.08			27.5	0.0
100	QPSK	133	133	25.84				
100	QPSK	270	0	24.91			26.5	1.0
100	16QAM	1	1	24.69			26.5	1.0
100	64QAM	1	1	23.64			26.0	2.5
100	256QAM	1	1	21.31			23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	3790	3840	3900		
100	PI2 BPSK	1	1	16.27	16.40	16.24	18.0	0.0
100	PI2 BPSK	1	137	16.27	16.40	16.24		
100	PI2 BPSK	1	271	16.31	16.32	16.31		
100	PI2 BPSK	133	0	16.33	16.32	16.27	18.0	0.0
100	PI2 BPSK	133	69	16.34	16.36	16.26	18.0	0.0
100	PI2 BPSK	133	133	16.33	16.40	16.26	18.0	0.0
100	PI2 BPSK	270	0	16.33	16.38	16.24		
100	QPSK	1	1	16.43	16.48	16.40		
100	QPSK	1	137	16.35	16.45	16.38	18.0	0.0
100	QPSK	1	271	16.42	16.44	16.33		
100	QPSK	133	0	16.28	16.36	16.24	18.0	0.0
100	QPSK	133	69	16.36	16.41	16.32		
100	QPSK	133	133	16.31	16.32	16.26	18.0	0.0
100	QPSK	270	0	16.31	16.37	16.26	18.0	0.0
100	16QAM	1	1	16.26	16.28	16.27	18.0	0.0
100	64QAM	1	1	16.33	16.40	16.28	18.0	0.0
100	256QAM	1	1	16.35	16.32	16.27	18.0	0.0
Channel				85000	85500	86000		
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	16.35	16.39	16.30	18.0	0.0
Channel				85000	85500	86000		
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	16.32	16.39	16.24	18.0	0.0
Channel				84968	85000	85032		
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	16.33	16.38	16.31	18.0	0.0
Channel				84934	85000	85066		
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	16.34	16.36	16.29	18.0	0.0
Channel				84900	85000	85000		
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	16.29	16.38	16.25	18.0	0.0
Channel				84768	85000	85232		
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	16.33	16.37	16.31	18.0	0.0
Channel				84733	85000	85066		
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	16.33	16.34	16.26	18.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
100	PI2 BPSK	1	1	3790	3840	3900		
100	PI2 BPSK	1	1	18.02	18.05	17.99	19.5	0.0
100	PI2 BPSK	1	137	18.06	18.13	17.99		
100	PI2 BPSK	1	271	18.03	18.09	18.04		
100	PI2 BPSK	133	0	18.02	18.10	18.03	19.5	0.0
100	PI2 BPSK	133	69	18.01	18.08	18.06	19.5	0.0
100	PI2 BPSK	133	133	18.07	18.05	18.01	19.5	0.0
100	PI2 BPSK	270	0	18.01	18.08	18.04		
100	QPSK	1	1	18.14	18.19	18.11		
100	QPSK	1	137	18.11	18.10	18.03	19.5	0.0
100	QPSK	1	271	18.10	18.15	18.03		
100	QPSK	133	0	18.07	18.13	18.04	19.5	0.0
100	QPSK	133	69	18.08	18.14	18.07		
100	QPSK	133	133	18.03	18.09	17.99	19.5	0.0
100	QPSK	270	0	18.02	18.09	18.05	19.5	0.0
100	16QAM	1	1	18.00	18.11	18.04	19.5	0.0
100	64QAM	1	1	17.99	18.11	18.05	19.5	0.0
100	256QAM	1	1	18.03	18.09	18.05	19.5	0.0
Channel				85000	85500	86000		
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	17.99	18.05	18.06	19.5	0.0
Channel				85000	85500	86000		
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	18.00	18.10	18.00	19.5	0.0
Channel				84968	85000	85032		
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	18.06	18.13	18.00	19.5	0.0
Channel				84934	85000	85066		
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	18.05	18.08	18.00	19.5	0.0
Channel				84900	85000	85000		
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	18.04	18.08	18.02	19.5	0.0
Channel				84768	85000	85232		
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	18.03	18.06	18.04	19.5	0.0
Channel				84733	85000	85066		
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	18.05	18.09	18.01	19.5	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)	MFR (dB)
Channel								
Frequency (MHz)				33332			3499.98	
100	PI2 BPSK	1	1	16.57	16.57	16.57	18.0	0.0
100	PI2 BPSK	1	137	16.54	16.54	16.54	18.0	0.0
100	PI2 BPSK	1	271	16.59	16.59	16.59	18.0	0.0
100	PI2 BPSK	133	0	16.55	16.55	16.55	18.0	0.0
100	PI2 BPSK	133	69	16.57	16.57	16.57	18.0	0.0
100	PI2 BPSK	133	133	16.59	16.59	16.59	18.0	0.0
100	PI2 BPSK	270	0	16.55	16.55	16.55	18.0	0.0
100	QPSK	1	1	16.62	16.62	16.62	18.0	0.0
100	QPSK	1	137	16.53	16.53	16.53	18.0	0.0
100	QPSK	1	271	16.60	16.60	16.60	18.0	0.0
100	QPSK	133	0	16.55	16.55	16.55	18.0	0.0
100	QPSK	133	69	16.59	16.59	16.59	18.0	0.0
100	QPSK	133	133	16.56	16.56	16.56	18.0	0.0
100	QPSK	270	0	16.57	16.57	16.57	18.0	0.0
100	16QAM	1	1	16.53	16.53	16.53	18.0	0.0
100	64QAM	1	1	16.56	16.56	16.56	18.0	0.0
100	256QAM	1	1	16.59	16.59	16.59	18.0	0.0
Channel				63300			63368	
Frequency (MHz)				3495			3504.99	
90	PI2 BPSK	1	1	16.50	16.52	16.45	18.0	0.0
Channel				63368			63400	
Frequency (MHz)				3490.02			3499.98	
80	PI2 BPSK	1	1	16.54	16.56	16.46	18.0	0.0
Channel				63500			63532	
Frequency (MHz)				3480			3499.98	
60	PI2 BPSK	1	1	16.56	16.53	16.42	18.0	0.0
Channel				63532			63566	
Frequency (MHz)				3475.02			3499.98	
50	PI2 BPSK	1	1	16.48	16.53	16.42	18.0	0.0
Channel				63666			63700	
Frequency (MHz)				3470.01			3499.98	
40	PI2 BPSK	1	1	16.49	16.55	16.46	18.0	0.0
Channel				63700			63734	
Frequency (MHz)				3465			3499.98	
30	PI2 BPSK	1	1	16.53	16.51	16.48	18.0	0.0
Channel				63800			63834	
Frequency (MHz)				3460.02			3499.98	
20	PI2 BPSK	1	1	16.50	16.58	16.48	18.0	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)	MFR (dB)
Channel								
Frequency (MHz)				33332			3499.98	
100	PI2 BPSK	1	1	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	1	137	18.11	18.11	18.11	19.5	0.0
100	PI2 BPSK	1	271	18.06	18.06	18.06	19.5	0.0
100	PI2 BPSK	133	0	18.04	18.04	18.04	19.5	0.0
100	PI2 BPSK	133	69	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	133	133	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	270	0	18.10	18.10	18.10	19.5	0.0
100	QPSK	1	1	18.18	18.18	18.18	19.5	0.0
100	QPSK	1	137	18.17	18.17	18.17	19.5	0.0
100	QPSK	1	271	18.15	18.15	18.15	19.5	0.0
100	QPSK	133	0	18.10	18.10	18.10	19.5	0.0
100	QPSK	133	69	18.13	18.13	18.13	19.5	0.0
100	QPSK	133	133	18.12	18.12	18.12	19.5	0.0
100	QPSK	270	0	18.07	18.07	18.07	19.5	0.0
100	16QAM	1	1	18.06	18.06	18.06	19.5	0.0
100	64QAM	1	1	18.09	18.09	18.09	19.5	0.0
100	256QAM	1	1	18.08	18.08	18.08	19.5	0.0
Channel				63300			63368	
Frequency (MHz)				3495			3504.99	
90	PI2 BPSK	1	1	18.07	18.06	18.02	19.5	0.0
Channel				63368			63400	
Frequency (MHz)				3490.02			3499.98	
80	PI2 BPSK	1	1	18.05	18.10	18.09	19.5	0.0
Channel				63500			63532	
Frequency (MHz)				3480			3499.98	
60	PI2 BPSK	1	1	18.09	18.03	18.00	19.5	0.0
Channel				63532			63566	
Frequency (MHz)				3475.02			3499.98	
50	PI2 BPSK	1	1	18.08	18.10	18.08	19.5	0.0
Channel				63666			63700	
Frequency (MHz)				3470.01			3499.98	
40	PI2 BPSK	1	1	18.12	18.07	18.10	19.5	0.0
Channel				63700			63734	
Frequency (MHz)				3465			3499.98	
30	PI2 BPSK	1	1	18.08	18.11	18.00	19.5	0.0
Channel				63800			63834	
Frequency (MHz)				3460.02			3499.98	
20	PI2 BPSK	1	1	18.07	18.09	18.06	19.5	0.0



Par270 n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	3790	3840	3900		
100	PI2 BPSK	1	1	21.29	21.40	21.34		
100	PI2 BPSK	1	137	21.31	21.43	21.28	23.0	0.0
100	PI2 BPSK	1	271	21.31	21.37	21.31		
100	PI2 BPSK	138	0	21.33	21.36	21.30	23.0	0.0
100	PI2 BPSK	138	69	21.25	21.35	21.34	23.0	0.0
100	PI2 BPSK	138	138	21.30	21.41	21.32	23.0	0.0
100	PI2 BPSK	270	0	21.31	21.35	21.30		
100	QPSK	1	1	21.43	21.45	21.40		
100	QPSK	1	137	21.37	21.41	21.38	23.0	0.0
100	QPSK	1	271	21.38	21.44	21.37		
100	QPSK	138	0	21.27	21.35	21.34		
100	QPSK	138	69	21.34	21.44	21.37	23.0	0.0
100	QPSK	138	138	21.30	21.39	21.29		
100	QPSK	270	0	21.32	21.43	21.28	23.0	0.0
100	16QAM	1	1	21.26	21.43	21.29	23.0	0.0
100	64QAM	1	1	21.33	21.35	21.29	23.0	0.0
100	256QAM	1	1	19.75	19.86	19.86	21.5	1.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	21.29	21.41	21.32	23.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	21.33	21.35	21.34	23.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	21.32	21.35	21.30	23.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	21.32	21.43	21.35	23.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	21.27	21.37	21.30	23.0	0.0
Channel				84760	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	21.31	21.40	21.32	23.0	0.0
Channel				84733	85000	85406	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	21.32	21.37	21.30	23.0	0.0

Par270 n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	22.93	23.07	22.95		
100	PI2 BPSK	1	137	22.99	23.09	22.94	24.5	0.0
100	PI2 BPSK	1	271	23.00	23.05	22.98		
100	PI2 BPSK	138	0	22.93	23.04	22.93	24.5	0.0
100	PI2 BPSK	138	69	22.99	23.02	22.93	24.5	0.0
100	PI2 BPSK	138	138	22.94	23.01	22.94	24.5	0.0
100	PI2 BPSK	270	0	23.00	23.01	22.98		
100	QPSK	1	1	23.04	23.10	23.05		
100	QPSK	1	137	23.01	23.10	23.01	24.5	0.0
100	QPSK	1	271	22.96	23.08	23.01		
100	QPSK	138	0	22.95	23.04	23.01		
100	QPSK	138	69	23.02	23.08	23.02	24.5	0.0
100	QPSK	138	138	22.97	23.08	22.94		
100	QPSK	270	0	23.01	23.08	22.94	24.5	0.0
100	16QAM	1	1	22.96	23.05	22.93	24.5	0.0
100	64QAM	1	1	22.99	23.00	23.00	24.5	0.0
100	256QAM	1	1	21.44	21.43	21.43	23.0	1.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	22.98	23.02	22.94	24.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	22.94	23.07	22.88	24.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	23.00	23.03	22.97	24.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	22.99	23.04	22.95	24.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI2 BPSK	1	1	22.96	23.01	22.94	24.5	0.0
Channel				84760	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	22.96	23.03	22.97	24.5	0.0
Channel				84733	85000	85406	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	23.00	23.03	22.93	24.5	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.29	21.29	21.29	23.0	0.0
100	PI2 BPSK	1	137	21.29	21.29	21.29	23.0	0.0
100	PI2 BPSK	1	271	21.28	21.28	21.28	23.0	0.0
100	PI2 BPSK	135	0	21.33	21.33	21.33	23.0	0.0
100	PI2 BPSK	135	86	21.28	21.28	21.28	23.0	0.0
100	PI2 BPSK	135	138	21.31	21.31	21.31	23.0	0.0
100	PI2 BPSK	270	0	21.32	21.32	21.32	23.0	0.0
100	QPSK	1	1	21.41	21.41	21.41	23.0	0.0
100	QPSK	1	137	21.33	21.33	21.33	23.0	0.0
100	QPSK	1	271	21.39	21.39	21.39	23.0	0.0
100	QPSK	135	0	21.31	21.31	21.31	23.0	0.0
100	QPSK	135	86	21.34	21.34	21.34	23.0	0.0
100	QPSK	135	138	21.26	21.26	21.26	23.0	0.0
100	QPSK	270	0	21.31	21.31	21.31	23.0	0.0
100	64QAM	1	1	21.26	21.26	21.26	23.0	0.0
100	64QAM	1	1	21.25	21.25	21.25	23.0	0.0
100	256QAM	1	1	19.80	19.80	19.80	21.5	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.20	21.26	21.27	23.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.24	21.33	21.24	23.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.19	21.30	21.29	23.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.21	21.31	21.28	23.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.19	21.31	21.29	23.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.22	21.28	21.26	23.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.23	21.27	21.28	23.0	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.92	22.92	22.92	24.5	0.0
100	PI2 BPSK	1	137	22.93	22.93	22.93	24.5	0.0
100	PI2 BPSK	1	271	22.88	22.88	22.88	24.5	0.0
100	PI2 BPSK	135	0	22.93	22.93	22.93	24.5	0.0
100	PI2 BPSK	135	86	22.89	22.89	22.89	24.5	0.0
100	PI2 BPSK	135	138	22.92	22.92	22.92	24.5	0.0
100	PI2 BPSK	270	0	22.86	22.86	22.86	24.5	0.0
100	QPSK	1	1	23.03	23.03	23.03	24.5	0.0
100	QPSK	1	137	22.97	22.97	22.97	24.5	0.0
100	QPSK	1	271	22.95	22.95	22.95	24.5	0.0
100	QPSK	135	0	22.89	22.89	22.89	24.5	0.0
100	QPSK	135	86	22.95	22.95	22.95	24.5	0.0
100	QPSK	135	138	22.89	22.89	22.89	24.5	0.0
100	QPSK	270	0	22.94	22.94	22.94	24.5	0.0
100	64QAM	1	1	22.92	22.92	22.92	24.5	0.0
100	64QAM	1	1	22.89	22.89	22.89	24.5	0.0
100	256QAM	1	1	21.37	21.37	21.37	23.0	1.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.89	22.83	22.83	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.89	22.84	22.85	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.87	22.88	22.90	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.88	22.83	22.84	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.87	22.87	22.84	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.86	22.86	22.85	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.93	22.91	22.89	24.5	0.0



State 8 Power

n2_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	P12 BPSK	1	1	21.89	21.91	21.83	23.0	0.0
20	P12 BPSK	1	53	21.84	21.89	21.83		
20	P12 BPSK	1	104	21.83	21.86	21.82		
20	P12 BPSK	50	0	21.81	21.88	21.87	23.0	0.0
20	P12 BPSK	50	26	21.84	21.85	21.83	23.0	0.0
20	P12 BPSK	50	56	21.86	21.80	21.85		
20	P12 BPSK	100	0	21.87	21.85	21.79	23.0	0.0
20	QPSK	1	1	21.97	22.02	21.94		
20	QPSK	1	53	21.96	21.99	21.88	23.0	0.0
20	QPSK	1	104	21.94	22.00	21.89		
20	QPSK	50	0	21.88	21.96	21.82	23.0	0.0
20	QPSK	50	26	21.96	21.97	21.95	23.0	0.0
20	QPSK	50	56	21.89	21.92	21.87		
20	QPSK	100	0	21.90	21.92	21.88	23.0	0.0
20	16QAM	1	1	21.88	21.84	21.80	23.0	0.0
20	16QAM	1	1	21.86	21.85	21.82	23.0	0.0
20	256QAM	1	1	20.53	20.30	20.30	21.5	1.5
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1875.0	1880	1902.5		
15	P12 BPSK	1	1	21.88	21.87	21.84	23.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1860	1905		
10	P12 BPSK	1	1	21.82	21.84	21.85	23.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	P12 BPSK	1	1	21.85	21.84	21.81	23.0	0.0

n2_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	P12 BPSK	1	1	22.45	22.40	22.52		
20	P12 BPSK	1	53	22.46	22.57	22.53		
20	P12 BPSK	1	104	22.50	22.54	22.55		
20	P12 BPSK	50	0	22.51	22.58	22.55	24.0	0.0
20	P12 BPSK	50	26	22.50	22.59	22.53	24.0	0.0
20	P12 BPSK	50	56	22.50	22.56	22.52		
20	P12 BPSK	100	0	22.51	22.60	22.48	24.0	0.0
20	QPSK	1	1	22.53	22.61	22.56		
20	QPSK	1	53	22.50	22.59	22.51	24.0	0.0
20	QPSK	1	104	22.46	22.52	22.55		
20	QPSK	50	0	22.44	22.57	22.43	24.0	0.0
20	QPSK	50	26	22.50	22.58	22.48	24.0	0.0
20	QPSK	50	56	22.41	22.49	22.46		
20	QPSK	100	0	22.49	22.58	22.49	24.0	0.0
20	16QAM	1	1	22.42	22.53	22.42	24.0	0.0
20	16QAM	1	1	21.91	22.05	21.91	23.5	0.5
20	256QAM	1	1	19.98	20.05	19.90	21.5	1.5
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1875.0	1880	1902.5		
15	P12 BPSK	1	1	22.44	22.54	22.49	24.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1860	1905		
10	P12 BPSK	1	1	22.51	22.54	22.53	24.0	0.0
Channel				1875.0	1875.0	1902.5	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1860	1907.5		
5	P12 BPSK	1	1	22.52	22.58	22.49	24.0	0.0



n2_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1890	1890	1900		
20	P12 BPSK	1	1	16.66	16.65	16.58	18.0	0.0
20	P12 BPSK	1	53	16.56	16.65	16.55		
20	P12 BPSK	1	104	16.05	16.61	16.62		
20	P12 BPSK	50	0	16.52	16.67	16.67	18.0	0.5
20	P12 BPSK	50	26	16.56	16.69	16.59	18.0	0.0
20	P12 BPSK	50	56	16.60	16.58	16.47	18.0	0.0
20	P12 BPSK	100	0	16.63	16.69	16.62		
20	QPSK	1	1	16.76	16.78	16.78		
20	QPSK	1	53	16.58	16.66	16.64	18.0	0.0
20	QPSK	1	104	16.66	16.69	16.59		
20	QPSK	50	0	16.69	16.65	16.61	18.0	0.0
20	QPSK	50	26	16.61	16.67	16.64	18.0	0.0
20	QPSK	50	56	16.61	16.59	16.58	18.0	0.0
20	QPSK	100	0	16.54	16.66	16.62		
20	16QAM	1	1	16.56	16.59	16.50	18.0	0.0
20	64QAM	1	1	16.50	16.59	16.51	18.0	0.0
20	256QAM	1	1	16.49	16.52	16.54	18.0	0.0
Channel								
Frequency (MHz)				1897.5	1890	1902.5	Tuning limit (dBm)	MFR (dB)
15	P12 BPSK	1	1	16.65	16.59	16.50	18.0	0.0
Channel								
Frequency (MHz)				1895	1890	1905	Tuning limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	16.56	16.60	16.51	18.0	0.0
Channel								
Frequency (MHz)				1892.5	1890	1907.5	Tuning limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	16.65	16.57	16.52	18.0	0.0

n5_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	P12 BPSK	1	1	24.49	24.51	24.43		
20	P12 BPSK	1	53	24.32	24.46	24.32	26.0	0.0
20	P12 BPSK	1	104	24.49	24.50	24.46		
20	P12 BPSK	50	0	23.99	24.02	24.00	25.5	0.5
20	P12 BPSK	50	26	24.46	24.53	24.41	26.0	0.0
20	P12 BPSK	50	56	23.94	23.99	23.92	25.5	0.5
20	P12 BPSK	100	0	23.91	23.95	23.88		
20	QPSK	1	1	24.63	24.71	24.69		
20	QPSK	1	53	24.58	24.66	24.57	26.0	0.0
20	QPSK	1	104	24.60	24.68	24.58		
20	QPSK	50	0	23.91	23.95	23.84	26.0	1.0
20	QPSK	50	26	24.43	24.52	24.41	26.0	0.0
20	QPSK	50	56	23.94	23.93	23.94	25.0	1.0
20	QPSK	100	0	23.99	23.96	23.93		
20	16QAM	1	1	23.55	23.58	23.48	25.0	1.0
20	64QAM	1	1	21.66	21.61	21.76	23.5	2.5
20	256QAM	1	1	19.90	20.03	20.02	21.5	4.5
Channel								
Frequency (MHz)				831.5	836.5	841.5	Tuning limit (dBm)	MFR (dB)
15	P12 BPSK	1	1	24.56	24.04	24.60	26.0	0.0
Channel								
Frequency (MHz)				839	836.5	844	Tuning limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	24.56	24.03	24.59	26.0	0.0
Channel								
Frequency (MHz)				826.5	836.5	846.5	Tuning limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	24.56	24.01	24.65	26.0	0.0



n5_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1660.0	1670.0	1680.0		
20	P12 BPSK	1	1	21.36	21.38	21.40	23.0	0.0
20	P12 BPSK	1	53	21.37	21.41	21.39		
20	P12 BPSK	1	104	21.38	21.40	21.37		
20	P12 BPSK	50	0	21.45	21.40	21.41	23.0	0.0
20	P12 BPSK	50	26	21.38	21.40	21.33	23.0	0.0
20	P12 BPSK	50	56	21.31	21.44	21.35		
20	P12 BPSK	100	0	21.31	21.42	21.34	23.0	0.0
20	QPSK	1	1	21.50	21.52	21.52		
20	QPSK	1	53	21.52	21.50	21.44	23.0	0.0
20	QPSK	1	104	21.50	21.51	21.47		
20	QPSK	50	0	21.41	21.42	21.38	23.0	0.0
20	QPSK	50	26	21.36	21.44	21.54	23.0	0.0
20	QPSK	50	56	21.30	21.38	21.24	23.0	0.0
20	QPSK	100	0	21.28	21.42	21.40		
20	16QAM	1	1	21.45	21.56	21.38	23.0	0.0
20	64QAM	1	1	21.40	21.51	21.44	23.0	0.0
20	256QAM	1	1	19.74	19.87	19.86	21.5	1.5
Channel				1660.0	1670.0	1680.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				831.5	835.5	841.5		
15	P12 BPSK	1	1	21.46	21.46	21.33	23.0	0.0
Channel				1660.0	1670.0	1680.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				839	835.5	844		
10	P12 BPSK	1	1	21.37	21.40	21.40	23.0	0.0
Channel				1660.0	1670.0	1680.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				826.5	835.5	846.5		
5	P12 BPSK	1	1	21.36	21.41	21.27	23.0	0.0

n7_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				2410	2535	2560		
20	P12 BPSK	1	1	20.77	20.76	20.69		
20	P12 BPSK	1	53	20.82	20.84	20.83	22.0	0.0
20	P12 BPSK	1	104	20.79	20.81	20.71		
20	P12 BPSK	50	0	20.78	20.73	20.72	22.0	0.0
20	P12 BPSK	50	26	20.76	20.71	20.77	22.0	0.0
20	P12 BPSK	50	56	20.73	20.70	20.74		
20	P12 BPSK	100	0	20.67	20.72	20.70	22.0	0.0
20	QPSK	1	1	21.08	21.10	20.78		
20	QPSK	1	53	20.82	20.82	20.72	22.0	0.0
20	QPSK	1	104	20.74	20.85	20.78		
20	QPSK	50	0	20.71	20.66	20.74	22.0	0.0
20	QPSK	50	26	20.81	20.86	20.83	22.0	0.0
20	QPSK	50	56	20.67	20.66	20.59	22.0	0.0
20	QPSK	100	0	20.64	20.70	20.68		
20	16QAM	1	1	20.76	20.81	20.68	22.0	0.0
20	64QAM	1	1	20.62	20.53	20.51	22.0	0.0
20	256QAM	1	1	19.03	19.00	19.70	21.5	1.5
Channel				2410.0	2535.0	2560.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	P12 BPSK	1	1	20.76	20.71	20.67	22.0	0.0
Channel				2410.0	2535.0	2560.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505	2535	2565		
10	P12 BPSK	1	1	20.68	20.68	20.77	22.0	0.0
Channel				2500.0	2535.0	2560.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	P12 BPSK	1	1	20.74	20.74	20.68	22.0	0.0



n7_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				2510	2535	2560		
20	P12 BPSK	1	1	16.53	16.61	16.66	17.5	0.0
20	P12 BPSK	1	57	16.51	16.60	16.65		
20	P12 BPSK	1	104	16.60	16.67	16.63		
20	P12 BPSK	50	0	16.55	16.61	16.49	17.5	0.5
20	P12 BPSK	50	28	16.48	16.44	16.47	17.5	0.0
20	P12 BPSK	50	56	16.51	16.55	16.41	17.5	0.0
20	P12 BPSK	100	0	16.35	16.57	16.41		
20	QPSK	1	1	16.54	16.59	16.57		
20	QPSK	1	63	16.52	16.63	16.59	17.5	0.0
20	QPSK	1	104	16.58	16.62	16.59		
20	QPSK	50	0	16.58	16.64	16.54	17.5	0.0
20	QPSK	50	28	16.56	16.57	16.52	17.5	0.0
20	QPSK	50	56	16.57	16.60	16.49	17.5	0.0
20	QPSK	100	0	16.62	16.65	16.60		
20	16QAM	1	1	16.56	16.63	16.65	17.5	0.0
20	64QAM	1	1	16.50	16.57	16.59	17.5	0.0
20	256QAM	1	1	16.59	16.59	16.52	17.5	0.0
Channel								
Frequency (MHz)				2597.5	2535	2562.5	Tune-up limit (dBm)	MFR (dB)
15	P12 BPSK	1	1	16.54	16.65	16.65	17.5	0.0
Channel								
Frequency (MHz)				2605	2535	2565	Tune-up limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	16.55	16.67	16.65	17.5	0.0
Channel								
Frequency (MHz)				2592.5	2535	2567.5	Tune-up limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	16.54	16.65	16.59	17.5	0.0

n12_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				14300	14100	14170		
15	P12 BPSK	1	1	24.30	24.39	24.30		
15	P12 BPSK	1	40	24.25	24.22	24.22	26.0	0.0
15	P12 BPSK	1	77	24.33	24.37	24.33		
15	P12 BPSK	36	0	23.71	23.62	23.81	25.5	0.5
15	P12 BPSK	36	22	24.16	24.23	24.24	26.0	0.0
15	P12 BPSK	36	43	23.69	23.78	23.75	25.5	0.5
15	P12 BPSK	75	0	23.62	23.75	23.74		
15	QPSK	1	1	24.33	24.45	24.35		
15	QPSK	1	40	24.29	24.36	24.31	26.0	0.0
15	QPSK	1	77	24.30	24.43	24.30		
15	QPSK	36	0	23.22	23.35	23.31	26.0	1.0
15	QPSK	36	22	24.15	24.26	24.23	26.0	0.0
15	QPSK	36	43	23.18	23.30	23.20	25.0	1.0
15	QPSK	75	0	23.21	23.29	23.23		
15	16QAM	1	1	23.09	23.18	23.07	25.0	1.0
15	64QAM	1	1	21.55	21.59	21.61	23.5	2.5
15	256QAM	1	1	20.18	20.21	20.14	21.5	4.5
Channel								
Frequency (MHz)				704	707.5	711	Tune-up limit (dBm)	MFR (dB)
10	P12 BPSK	1	1	24.22	24.34	24.25	26.0	0.0
Channel								
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MFR (dB)
5	P12 BPSK	1	1	24.27	24.35	24.26	26.0	0.0



n12_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				144300	144600	144900		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	21.20	21.23	21.19	23.0	0.0
15	PI2 BPSK	1	40	21.25	21.26	21.22		
15	PI2 BPSK	1	77	21.16	21.28	21.18		
15	PI2 BPSK	36	0	21.21	21.25	21.18	23.0	0.0
15	PI2 BPSK	36	22	21.21	21.20	21.17	23.0	0.0
15	PI2 BPSK	36	43	21.15	21.27	21.17		
15	PI2 BPSK	75	0	21.19	21.26	21.23	23.0	0.0
15	QPSK	1	1	21.33	21.38	21.28		
15	QPSK	1	40	21.28	21.30	21.20	23.0	0.0
15	QPSK	1	77	21.24	21.33	21.24		
15	QPSK	36	0	21.21	21.24	21.16	23.0	0.0
15	QPSK	36	22	21.24	21.31	21.24	23.0	0.0
15	QPSK	36	43	21.23	21.23	21.22	23.0	0.0
15	QPSK	75	0	21.17	21.27	21.21		
15	16QAM	1	1	21.16	21.25	21.23	23.0	0.0
15	64QAM	1	1	21.21	21.22	21.22	23.0	0.0
15	256QAM	1	1	19.08	19.30	19.72	21.5	1.5
Channel				145000	144300	144900		
Frequency (MHz)				704	707.5	711		
10	PI2 BPSK	1	1	21.17	21.22	21.18	23.0	0.0
Channel				145700	144300	144900		
Frequency (MHz)				701.5	707.5	713.5		
5	PI2 BPSK	1	1	21.20	21.30	21.22	23.0	0.0

n25_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		
Frequency (MHz)				1860	1862.5	1865		
20	PI2 BPSK	1	1	21.87	21.97	21.96		
20	PI2 BPSK	1	53	21.86	22.04	21.86	23.0	0.0
20	PI2 BPSK	1	104	21.95	22.01	21.92		
20	PI2 BPSK	50	0	21.90	22.01	21.91	23.0	0.0
20	PI2 BPSK	50	26	21.95	21.89	21.86	23.0	0.0
20	PI2 BPSK	50	56	21.90	21.98	21.92	23.0	0.0
20	PI2 BPSK	100	0	21.93	21.96	21.94		
20	QPSK	1	1	22.00	22.08	22.02		
20	QPSK	1	53	21.92	22.05	21.93	23.0	0.0
20	QPSK	1	104	21.95	22.06	21.95		
20	QPSK	50	0	21.94	21.96	21.89	23.0	0.0
20	QPSK	50	26	21.96	22.05	21.97	23.0	0.0
20	QPSK	50	56	21.88	21.96	21.95	23.0	0.0
20	QPSK	100	0	21.89	22.02	21.96		
20	16QAM	1	1	21.91	22.00	21.93	23.0	0.0
20	64QAM	1	1	21.93	22.02	21.90	23.0	0.0
20	256QAM	1	1	20.37	20.54	20.40	21.5	1.5
Channel				373700	376200	378700		
Frequency (MHz)				1857.5	1862.5	1867.5		
15	PI2 BPSK	1	1	21.90	21.97	21.95	23.0	0.0
Channel				375400	376200	378700		
Frequency (MHz)				1865	1862.5	1865		
10	PI2 BPSK	1	1	21.94	22.01	21.91	23.0	0.0
Channel				376100	376200	378700		
Frequency (MHz)				1862.5	1862.5	1812.5		
5	PI2 BPSK	1	1	21.95	22.01	21.88	23.0	0.0



n25_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
20	PI2 BPSK	1	1	22.89	22.85	22.82	24.0	0.0
20	PI2 BPSK	1	53	22.72	22.78	22.75		
20	PI2 BPSK	1	104	22.79	22.54	22.72		
20	PI2 BPSK	50	0	22.86	22.85	22.85	24.0	0.0
20	PI2 BPSK	50	26	22.72	22.77	22.78	24.0	0.0
20	PI2 BPSK	50	56	22.54	22.52	22.72		
20	PI2 BPSK	100	0	22.81	22.84	22.78	24.0	0.0
20	QPSK	1	1	22.90	22.99	22.95		
20	QPSK	1	53	22.83	22.90	22.78	24.0	0.0
20	QPSK	1	104	22.79	22.96	22.84		
20	QPSK	50	0	22.79	22.86	22.81	24.0	0.0
20	QPSK	50	26	22.85	22.91	22.78	24.0	0.0
20	QPSK	50	56	22.85	22.96	22.76	24.0	0.0
20	QPSK	100	0	22.88	22.89	22.74		
20	16QAM	1	1	22.82	22.88	22.87	24.0	0.0
20	64QAM	1	1	22.25	22.30	22.21	23.5	0.0
20	256QAM	1	1	20.51	20.61	20.55	21.5	2.5
Channel				384000	388000	392000		
Frequency (MHz)				1827.5	1852.5	1907.5		
15	PI2 BPSK	1	1	22.85	23.01	22.87	24.0	0.0
Channel				396000	400000	404000		
Frequency (MHz)				1865	1882.5	1910		
10	PI2 BPSK	1	1	22.79	23.02	22.87	24.0	0.0
Channel				408000	412000	416000		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	PI2 BPSK	1	1	22.79	23.04	22.73	24.0	0.0

n25_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)				372000	376000	380000		
20	PI2 BPSK	1	1	17.10	17.20	17.09		
20	PI2 BPSK	1	53	16.96	17.14	17.05	18.0	0.0
20	PI2 BPSK	1	104	17.06	17.12	16.90		
20	PI2 BPSK	50	0	17.10	17.22	17.07	18.0	0.0
20	PI2 BPSK	50	26	17.12	17.28	17.08	18.0	0.0
20	PI2 BPSK	50	56	17.00	17.24	17.05		
20	PI2 BPSK	100	0	16.98	17.03	17.08	18.0	0.0
20	QPSK	1	1	17.16	17.30	17.19		
20	QPSK	1	53	17.11	17.23	17.17	18.0	0.0
20	QPSK	1	104	17.11	17.19	17.13		
20	QPSK	50	0	17.01	17.22	17.04	18.0	0.0
20	QPSK	50	26	17.06	17.21	17.13	18.0	0.0
20	QPSK	50	56	17.04	17.17	17.10	18.0	0.0
20	QPSK	100	0	17.09	17.18	17.02		
20	16QAM	1	1	16.97	17.15	17.13	18.0	0.0
20	64QAM	1	1	16.97	17.03	17.05	18.0	0.0
20	256QAM	1	1	17.13	17.23	17.23	18.0	0.0
Channel				384000	388000	392000		
Frequency (MHz)				1827.5	1852.5	1907.5		
15	PI2 BPSK	1	1	17.05	17.28	17.14	18.0	0.0
Channel				396000	400000	404000		
Frequency (MHz)				1865	1882.5	1910		
10	PI2 BPSK	1	1	17.08	17.28	17.10	18.0	0.0
Channel				408000	412000	416000		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	PI2 BPSK	1	1	17.05	17.23	17.08	18.0	0.0



n26_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
20	P12 BPSK	1	1	24.46	24.53	24.50	26.0	0.0
20	P12 BPSK	1	53	24.30	24.38	24.27		
20	P12 BPSK	1	104	24.42	24.45	24.41		
20	P12 BPSK	50	0	23.81	23.92	23.86	25.5	0.5
20	P12 BPSK	50	26	24.36	24.30	24.25	25.0	0.0
20	P12 BPSK	50	56	23.96	23.97	23.77	25.5	0.5
20	P12 BPSK	100	0	23.72	23.78	23.67	25.5	0.5
20	QPSK	1	1	24.46	24.37	24.56		
20	QPSK	1	53	24.44	24.47	24.43	26.0	0.0
20	QPSK	1	104	24.41	24.54	24.52		
20	QPSK	50	0	23.23	23.36	23.35	25.0	1.0
20	QPSK	50	26	24.25	24.32	24.23	25.0	0.0
20	QPSK	50	56	23.30	23.32	23.30	25.0	1.0
20	QPSK	100	0	23.26	23.32	23.24	25.0	1.0
20	16QAM	1	1	23.16	23.31	23.22	25.0	1.0
20	64QAM	1	1	21.65	21.67	21.60	23.5	2.5
20	256QAM	1	1	20.04	20.14	20.06	21.5	4.5
Channel				165300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	P12 BPSK	1	1	24.38	24.43	24.40	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				819	831.5	844		
10	P12 BPSK	1	1	24.43	24.30	24.42	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	P12 BPSK	1	1	24.37	24.42	24.36	26.0	0.0

n26_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				164800	166300	167800		
20	P12 BPSK	1	1	21.44	21.61	21.45	23.0	0.0
20	P12 BPSK	1	53	21.44	21.58	21.46		
20	P12 BPSK	1	104	21.41	21.59	21.45		
20	P12 BPSK	50	0	21.49	21.62	21.48	23.0	0.0
20	P12 BPSK	50	26	21.46	21.62	21.44	23.0	0.0
20	P12 BPSK	50	56	21.48	21.53	21.50	23.0	0.0
20	P12 BPSK	100	0	21.47	21.64	21.51	23.0	0.0
20	QPSK	1	1	21.56	21.67	21.58		
20	QPSK	1	53	21.56	21.58	21.54	23.0	0.0
20	QPSK	1	104	21.49	21.65	21.51		
20	QPSK	50	0	21.46	21.56	21.47	23.0	0.0
20	QPSK	50	26	21.50	21.65	21.52	23.0	0.0
20	QPSK	50	56	21.43	21.61	21.51	23.0	0.0
20	QPSK	100	0	21.43	21.59	21.43	23.0	0.0
20	16QAM	1	1	21.42	21.61	21.48	23.0	0.0
20	64QAM	1	1	21.41	21.64	21.46	23.0	0.0
20	256QAM	1	1	19.31	20.12	20.01	21.5	1.5
Channel				165300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	P12 BPSK	1	1	21.49	21.57	21.50	23.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				819	831.5	844		
10	P12 BPSK	1	1	21.43	21.50	21.47	23.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	P12 BPSK	1	1	21.41	21.64	21.51	23.0	0.0



n30_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.29	21.29		22.5	0.0
10	PI2 BPSK	1	26	21.30				
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67	20.67		22.0	0.5
10	PI2 BPSK	25	14	21.27				
10	PI2 BPSK	25	27	20.78				
10	PI2 BPSK	50	0	20.80	20.80		22.0	0.5
10	QPSK	1	1	21.33	21.33			
10	QPSK	1	25	21.34				
10	QPSK	1	50	21.33	21.33		22.5	0.0
10	QPSK	25	0	20.22	21.5	1.0		
10	QPSK	25	14	21.58	20.5	0.0		
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.21				
10	QPSK	1	1	20.23	21.5	1.0		
10	64QAM	1	1	18.67	20.0	2.5	20.0	2.5
10	256QAM	1	1	18.68	18.0	4.5		
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0

n30_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.29	21.29		22.5	0.0
10	PI2 BPSK	1	26	21.30				
10	PI2 BPSK	1	50	21.31				
10	PI2 BPSK	25	0	20.67	20.67		22.0	0.5
10	PI2 BPSK	25	14	21.27				
10	PI2 BPSK	25	27	20.78				
10	PI2 BPSK	50	0	20.80	20.80		22.0	0.5
10	QPSK	1	1	21.33	21.33			
10	QPSK	1	25	21.34				
10	QPSK	1	50	21.33	21.33		22.5	0.0
10	QPSK	25	0	20.22	21.5	1.0		
10	QPSK	25	14	21.58	20.5	0.0		
10	QPSK	25	27	20.24			21.5	1.0
10	QPSK	50	0	20.21				
10	QPSK	1	1	20.23	21.5	1.0		
10	64QAM	1	1	18.67	20.0	2.5	20.0	2.5
10	256QAM	1	1	18.68	18.0	4.5		
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	21.33	21.17	21.23	22.5	0.0



n30_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				46200	46200	46200		
10	PI2 BPSK	1	1	17.33			19.0	0.0
10	PI2 BPSK	1	26	17.32				
10	PI2 BPSK	1	50	17.35				
10	PI2 BPSK	25	0	17.34			19.0	0.0
10	PI2 BPSK	25	14	17.29			19.0	0.0
10	PI2 BPSK	25	27	17.40			19.0	0.0
10	PI2 BPSK	50	0	17.40			19.0	0.0
10	QPSK	1	1	17.42				
10	QPSK	1	25	17.40			19.0	0.0
10	QPSK	1	50	17.35				
10	QPSK	25	0	17.35			19.0	0.0
10	QPSK	25	14	17.41			19.0	0.0
10	QPSK	25	27	17.38			19.0	0.0
10	QPSK	50	0	17.37			19.0	0.0
10	QPSK	1	1	17.35			19.0	0.0
10	64QAM	1	1	17.34			19.0	0.0
10	256QAM	1	1	17.25			19.0	0.0
Channel				46100	46200	46250	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2307.5	2310	2312.5	19.0	0.0
5	PI2 BPSK	1	1	17.27	17.35	17.28	19.0	0.0

n66_Ant1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				34900	34900	34900		
30	PI2 BPSK	1	1	24.69	24.81	24.69	26.0	0.0
30	PI2 BPSK	1	80	24.65	24.75	24.65		
30	PI2 BPSK	1	158	24.75	24.79	24.85		
30	PI2 BPSK	80	0	24.16	24.22	24.13	25.5	0.5
30	PI2 BPSK	80	40	24.61	24.74	24.73	26.0	0.0
30	PI2 BPSK	80	80	24.05	24.18	24.05	25.5	0.5
30	PI2 BPSK	160	0	24.09	24.16	24.13		
30	QPSK	1	1	24.86	24.87	24.83		
30	QPSK	1	80	24.82	24.85	24.75	26.0	0.0
30	QPSK	1	158	24.71	24.84	24.72		
30	QPSK	80	0	23.70	23.79	23.76	26.0	1.0
30	QPSK	80	40	24.73	24.85	24.77	26.0	0.0
30	QPSK	80	80	23.64	23.72	23.61	25.0	1.0
30	QPSK	160	0	23.61	23.69	23.68		
30	16QAM	1	1	23.56	23.70	23.64	23.0	1.0
30	64QAM	1	1	22.10	22.22	22.15	23.5	2.5
30	256QAM	1	1	20.44	20.40	20.30	21.5	4.5
Channel				34500	34500	34500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	24.76	24.76	24.71	26.0	0.0
Channel				1715.0	1715.0	1715.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	24.80	24.82	24.66	26.0	0.0
Channel				1710.0	1715.0	1715.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	24.77	24.84	24.70	26.0	0.0
Channel				1712.5	1715.0	1715.0	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	24.74	24.80	24.74	26.0	0.0



n66_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1725	1745	1765		
30	P12 BPSK	1	1	23.83	23.93	23.84	25.0	0.0
30	P12 BPSK	1	80	23.87	23.93	23.85		
30	P12 BPSK	1	158	23.85	23.93	23.90		
30	P12 BPSK	80	0	23.88	23.92	23.87	25.0	0.0
30	P12 BPSK	80	40	23.85	23.89	23.90	25.0	0.0
30	P12 BPSK	80	80	23.81	23.95	23.85	25.0	0.0
30	P12 BPSK	160	0	23.86	23.95	23.89	25.0	0.0
30	QPSK	1	1	23.98	24.00	23.98		
30	QPSK	1	80	23.90	23.98	23.90	25.0	0.0
30	QPSK	1	158	23.92	23.96	23.93		
30	QPSK	80	0	23.91	23.99	23.94	25.0	0.0
30	QPSK	80	40	23.90	23.98	23.93	25.0	0.0
30	QPSK	80	80	23.85	23.94	23.91	25.0	0.0
30	QPSK	160	0	23.85	23.94	23.87	25.0	0.0
30	16QAM	1	1	23.83	23.90	23.85	25.0	0.0
30	16QAM	1	1	22.37	22.43	22.42	23.5	1.5
30	256QAM	1	1	20.33	20.40	20.38	21.5	3.5
Channel								
Frequency (MHz)				1720	1745	1770		
20	P12 BPSK	1	1	23.83	23.97	23.86	25.0	0.0
Channel				1715.0	1740.0	1765.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	P12 BPSK	1	1	23.86	23.96	23.86	25.0	0.0
Channel				1710.0	1735.0	1760.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	P12 BPSK	1	1	23.84	23.91	23.87	25.0	0.0
Channel				1705.0	1730.0	1755.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	P12 BPSK	1	1	23.89	23.91	23.87	25.0	0.0

n66_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tuning limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				1725	1745	1765		
30	P12 BPSK	1	1	19.16	19.16	19.20	20.5	0.0
30	P12 BPSK	1	80	19.14	19.22	19.21		
30	P12 BPSK	1	158	19.20	19.20	19.17		
30	P12 BPSK	80	0	19.16	19.17	19.13	20.5	0.0
30	P12 BPSK	80	40	19.16	19.23	19.15	20.5	0.0
30	P12 BPSK	80	80	19.15	19.19	19.13	20.5	0.0
30	P12 BPSK	160	0	19.16	19.18	19.16	20.5	0.0
30	QPSK	1	1	19.21	19.25	19.22		
30	QPSK	1	80	19.15	19.22	19.15	20.5	0.0
30	QPSK	1	158	19.19	19.22	19.16		
30	QPSK	80	0	19.12	19.15	19.13	20.5	0.0
30	QPSK	80	40	19.20	19.21	19.18	20.5	0.0
30	QPSK	80	80	19.15	19.16	19.13	20.5	0.0
30	QPSK	160	0	19.11	19.15	19.12	20.5	0.0
30	16QAM	1	1	19.17	19.15	19.11	20.5	0.0
30	16QAM	1	1	19.12	19.13	19.11	20.5	0.0
30	256QAM	1	1	17.03	17.01	17.64	19.0	1.5
Channel								
Frequency (MHz)				1720	1745	1770		
20	P12 BPSK	1	1	19.13	19.17	19.13	20.5	0.0
Channel				1715.0	1740.0	1765.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	P12 BPSK	1	1	19.17	19.19	19.21	20.5	0.0
Channel				1710.0	1735.0	1760.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1715	1745	1775		
10	P12 BPSK	1	1	19.19	19.22	19.13	20.5	0.0
Channel				1705.0	1730.0	1755.0	Tuning limit (dBm)	MFR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	P12 BPSK	1	1	19.13	19.17	19.14	20.5	0.0



n71_Ant0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.71	24.74	24.70	26.0	0.0
20	PI2 BPSK	1	53	24.56	24.67	24.63		
20	PI2 BPSK	1	104	24.65	24.71	24.65		
20	PI2 BPSK	50	0	24.13	24.25	24.20	25.5	0.5
20	PI2 BPSK	50	24	24.55	24.55	24.49	26.0	0.0
20	PI2 BPSK	50	56	24.12	24.15	24.10	24.5	0.5
20	PI2 BPSK	100	0	24.07	24.17	24.14	24.5	0.5
20	QPSK	1	1	24.70	24.82	24.73		
20	QPSK	1	53	24.53	24.62	24.60	26.0	0.0
20	QPSK	1	104	24.54	24.59	24.58		
20	QPSK	50	0	23.97	24.74	23.61	25.0	1.0
20	QPSK	50	24	24.57	24.61	24.51	26.0	0.0
20	QPSK	50	56	23.45	23.52	23.45	25.0	1.0
20	QPSK	100	0	23.92	24.64	23.67	25.0	1.0
20	16QAM	1	1	24.10	24.13	24.12	25.0	1.0
20	64QAM	1	1	22.11	22.14	21.99	23.5	2.5
20	256QAM	1	1	20.86	20.99	20.85	21.5	4.5
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.48	24.61	24.51	26.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.52	24.53	24.52	26.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	24.45	24.54	24.53	26.0	0.0

n71_Ant2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.30	21.41	21.27		
20	PI2 BPSK	1	53	21.24	21.42	21.32	23.0	0.0
20	PI2 BPSK	1	104	21.25	21.40	21.27		
20	PI2 BPSK	50	0	21.31	21.41	21.30	23.0	0.0
20	PI2 BPSK	50	24	21.24	21.36	21.28	23.0	0.0
20	PI2 BPSK	50	56	21.30	21.41	21.31	23.0	0.0
20	PI2 BPSK	100	0	21.24	21.42	21.31		
20	QPSK	1	1	21.28	21.45	21.43		
20	QPSK	1	53	21.37	21.36	21.40	23.0	0.0
20	QPSK	1	104	21.38	21.39	21.34		
20	QPSK	50	0	21.24	21.41	21.32	23.0	0.0
20	QPSK	50	24	21.32	21.44	21.34	23.0	0.0
20	QPSK	50	56	21.25	21.41	21.27	23.0	0.0
20	QPSK	100	0	21.30	21.39	21.28		
20	16QAM	1	1	21.29	21.35	21.28	23.0	0.0
20	64QAM	1	1	21.26	21.42	21.30	23.0	0.0
20	256QAM	1	1	19.79	19.88	19.73	21.5	1.5
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.24	21.38	21.25	23.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.26	21.36	21.30	23.0	0.0
Channel								
Frequency (MHz)								
5	PI2 BPSK	1	1	21.29	21.35	21.28	23.0	0.0



n38_Ant7

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	14.75	14.70	14.60		0.0
40	PI2 BPSK	1	53	14.50	14.60	14.41		
40	PI2 BPSK	1	104	14.59	14.63	14.52	16.0	
40	PI2 BPSK	50	0	14.62	14.75	14.74	16.0	0.0
40	PI2 BPSK	50	26	14.66	14.60	14.59	16.0	0.0
40	PI2 BPSK	50	56	14.46	14.71	14.68	16.0	0.0
40	PI2 BPSK	100	0	14.60	14.57	14.61		
40	QPSK	1	1	14.75	14.79	14.67		
40	QPSK	1	53	14.68	14.64	14.69	16.0	0.0
40	QPSK	1	104	14.57	14.68	14.61		
40	QPSK	50	0	14.77	14.63	14.70		
40	QPSK	50	26	14.54	14.75	14.64	16.0	0.0
40	QPSK	50	56	14.65	14.63	14.46		
40	QPSK	100	0	14.61	14.69	14.59	16.0	0.0
40	16QAM	1	1	14.34	14.41	14.31	16.0	0.0
40	16QAM	1	1	14.59	14.78	14.83	16.0	0.0
40	256QAM	1	1	14.63	14.77	14.67	16.0	0.0
Channel				535500	535500	539000	16.0	0.0
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	14.70	14.77	14.63	16.0	0.0
Channel				516500	516500	520000	16.0	0.0
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	14.66	14.74	14.59	16.0	0.0

n38_Ant8

BW [MHz]	Modulation	RB Size	2.813	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516500	516500	520000		
Frequency (MHz)				2590	2595	2600		
40	PI2 BPSK	1	1	24.77	24.78	24.69		
40	PI2 BPSK	1	53	24.58	24.62	24.51		
40	PI2 BPSK	1	104	24.61	24.70	24.67	26.0	0.0
40	PI2 BPSK	50	0	24.23	24.34	24.28	25.5	0.5
40	PI2 BPSK	50	26	24.65	24.66	24.60	26.0	0.0
40	PI2 BPSK	50	56	24.07	24.18	24.12	25.5	0.5
40	PI2 BPSK	100	0	24.03	24.15	24.08		
40	QPSK	1	1	24.76	24.86	24.79		
40	QPSK	1	53	24.67	24.75	24.73	26.0	0.0
40	QPSK	1	104	24.66	24.77	24.76		
40	QPSK	50	0	24.82	24.83	24.80		
40	QPSK	50	26	24.68	24.71	24.70	26.0	0.0
40	QPSK	50	56	24.84	24.71	24.58		
40	QPSK	100	0	23.64	23.68	23.66	25.0	1.0
40	16QAM	1	1	23.37	23.45	23.34	25.0	1.0
40	16QAM	1	1	22.16	22.23	22.15	23.5	2.5
40	256QAM	1	1	19.90	19.99	19.98	21.5	4.5
Channel				535500	535500	539000	16.0	0.0
Frequency (MHz)				2685	2695	2695		
30	PI2 BPSK	1	1	24.63	24.74	24.65	26.0	0.0
Channel				516500	516500	520000	16.0	0.0
Frequency (MHz)				2590	2595	2610		
20	PI2 BPSK	1	1	24.60	24.66	24.71	26.0	0.0



n41_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50200	51698	53000		
100	PI2 BPSK	1	1	14.65	14.72	14.65		0.0
100	PI2 BPSK	1	137	14.65	14.73	14.68	16.0	
100	PI2 BPSK	1	271	14.66	14.69	14.67		
100	PI2 BPSK	133	0	14.73	14.70	14.65	16.0	0.0
100	PI2 BPSK	133	69	14.65	14.72	14.64	16.0	0.0
100	PI2 BPSK	133	133	14.73	14.68	14.67		0.0
100	PI2 BPSK	270	0	14.69	14.75	14.66		
100	QPSK	1	1	14.70	14.81	14.77		
100	QPSK	1	137	14.70	14.79	14.75	16.0	0.0
100	QPSK	1	271	14.75	14.80	14.70		
100	QPSK	133	0	14.68	14.70	14.67		
100	QPSK	133	69	14.74	14.75	14.73	16.0	0.0
100	QPSK	133	133	14.70	14.72	14.70		
100	QPSK	270	0	14.67	14.71	14.70	16.0	0.0
100	16QAM	1	1	14.73	14.74	14.70	16.0	0.0
100	16QAM	1	1	14.70	14.75	14.70	16.0	0.0
100	256QAM	1	1	14.72	14.73	14.71	16.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	14.66	14.68	14.72	16.0	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	14.72	14.73	14.72	16.0	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2650		
70	PI2 BPSK	1	1	14.72	14.69	14.67	16.0	0.0
Channel				50200	51698	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	14.70	14.70	14.71	16.0	0.0
Channel				50200	51698	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	14.71	14.71	14.67	16.0	0.0
Channel				50200	51896	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	14.68	14.72	14.66	16.0	0.0
Channel				50200	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	14.70	14.68	14.70	16.0	0.0
Channel				50204	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2592.99	2678.99		
20	PI2 BPSK	1	1	14.66	14.68	14.64	16.0	0.0

n41_HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				50200	51698	53000		
100	PI2 BPSK	1	1	16.02	16.08	16.05		
100	PI2 BPSK	1	137	16.04	16.10	16.06	17.5	0.0
100	PI2 BPSK	1	271	16.02	16.10	16.01		
100	PI2 BPSK	133	0	16.03	16.12	16.09	17.5	0.0
100	PI2 BPSK	133	69	16.00	16.09	16.04	17.5	0.0
100	PI2 BPSK	133	133	16.02	16.10	16.06	17.5	0.0
100	PI2 BPSK	270	0	16.00	16.13	16.01		
100	QPSK	1	1	16.12	16.16	16.14		
100	QPSK	1	137	16.03	16.15	16.09	17.5	0.0
100	QPSK	1	271	16.11	16.10	16.10		
100	QPSK	133	0	16.01	16.09	16.04		
100	QPSK	133	69	16.08	16.14	16.10	17.5	0.0
100	QPSK	133	133	16.05	16.06	16.06		
100	QPSK	270	0	16.05	16.11	16.02	17.5	0.0
100	16QAM	1	1	16.00	16.10	16.06	17.5	0.0
100	16QAM	1	1	16.06	16.10	16.03	17.5	0.0
100	256QAM	1	1	16.00	16.10	16.04	17.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI2 BPSK	1	1	16.04	16.08	16.03	17.5	0.0
Channel				50204	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI2 BPSK	1	1	16.04	16.08	16.05	17.5	0.0
Channel				50200	51698	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2592.99	2650		
70	PI2 BPSK	1	1	16.03	16.07	16.04	17.5	0.0
Channel				50200	51698	2659.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	PI2 BPSK	1	1	16.03	16.10	16.03	17.5	0.0
Channel				50200	51698	2664.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI2 BPSK	1	1	16.01	16.05	16.02	17.5	0.0
Channel				50200	51896	53000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI2 BPSK	1	1	16.05	16.12	16.05	17.5	0.0
Channel				50200	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI2 BPSK	1	1	16.01	16.13	16.09	17.5	0.0
Channel				50204	51896	53096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2505.02	2592.99	2678.99		
20	PI2 BPSK	1	1	16.02	16.09	16.04	17.5	0.0



n41_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	24.82	24.95	24.79		
100	PI2 BPSK	1	137	24.77	24.79	24.66	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.78	24.75		
100	PI2 BPSK	133	0	24.03	24.14	24.11	25.5	0.5
100	PI2 BPSK	133	69	24.70	24.71	24.58	26.0	0.0
100	PI2 BPSK	133	133	24.22	24.24	24.19	25.5	0.5
100	PI2 BPSK	270	0	24.12	24.18	24.14		
100	QPSK	1	1	24.81	24.88	24.76		
100	QPSK	1	137	24.72	24.63	24.70	26.0	0.0
100	QPSK	1	271	24.71	24.81	24.80		
100	QPSK	133	0	24.74	24.76	24.68		
100	QPSK	133	69	24.89	24.71	24.59	26.0	0.0
100	QPSK	133	133	24.72	24.76	24.74		
100	QPSK	270	0	23.62	23.74	23.64	25.0	1.0
100	16QAM	1	1	22.90	22.92	22.81	25.0	1.0
100	64QAM	1	1	22.10	22.24	22.17	23.5	2.5
100	256QAM	1	1	19.90	20.03	19.94	21.5	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	24.67	24.76	24.62	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	24.69	24.77	24.66	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	24.69	24.76	24.64	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	24.65	24.77	24.69	26.0	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	24.65	24.76	24.62	26.0	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	24.64	24.74	24.63	26.0	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	24.71	24.75	24.62	26.0	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2555.02	2652.99	2672.99		
20	PI2 BPSK	1	1	24.68	24.77	24.64	26.0	0.0

n41_HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				505202	516598	530000		
100	PI2 BPSK	1	1	26.00	26.12	26.08		
100	PI2 BPSK	1	137	26.02	26.04	25.99	27.5	0.0
100	PI2 BPSK	1	271	25.95	26.00	25.94		
100	PI2 BPSK	133	0	25.33	25.45	25.33	27.0	0.5
100	PI2 BPSK	133	69	25.94	26.00	25.87	27.5	0.0
100	PI2 BPSK	133	133	25.34	25.44	25.33	27.0	0.5
100	PI2 BPSK	270	0	25.43	25.52	25.42		
100	QPSK	1	1	26.12	26.14	26.03		
100	QPSK	1	137	25.99	26.06	25.93	27.5	0.0
100	QPSK	1	271	25.99	26.04	26.02		
100	QPSK	133	0	25.80	25.90	25.88		
100	QPSK	133	69	25.98	26.00	25.99	27.5	0.0
100	QPSK	133	133	25.91	26.03	26.00		
100	QPSK	270	0	25.00	25.03	24.96	26.5	1.0
100	16QAM	1	1	25.04	25.12	25.06	26.5	1.0
100	64QAM	1	1	23.32	23.38	23.30	25.0	2.5
100	256QAM	1	1	21.20	21.31	21.23	23.0	4.5
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2441	2552.99	2644.98		
90	PI2 BPSK	1	1	25.97	26.01	25.88	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536.02	2652.99	2649.99		
80	PI2 BPSK	1	1	25.95	25.97	25.88	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2531.01	2652.99	2650		
70	PI2 BPSK	1	1	25.95	26.05	25.92	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2536	2652.99	2659.98		
60	PI2 BPSK	1	1	25.95	26.05	25.84	27.5	0.0
Channel				505202	516598	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2521.02	2652.99	2654.99		
50	PI2 BPSK	1	1	25.97	26.04	25.85	27.5	0.0
Channel				505203	516599	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2516.01	2652.99	2670		
40	PI2 BPSK	1	1	25.95	25.97	25.90	27.5	0.0
Channel				505204	516600	530000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2511	2652.99	2674.98		
30	PI2 BPSK	1	1	25.93	26.05	25.90	27.5	0.0
Channel				501204	518096	530996	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2555.02	2652.99	2672.99		
20	PI2 BPSK	1	1	25.91	25.99	25.89	27.5	0.0



n48_Part96_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0

n48_Part96_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				836500	841666	846832		
				3870	3624.99	3879.98		
40	PI2 BPSK	1	1	21.22	21.16	21.14		0.0
40	PI2 BPSK	1	53	21.21	21.14	21.21	22.5	
40	PI2 BPSK	1	104	21.25	21.23	21.23		
40	PI2 BPSK	50	0	20.71	20.67	20.65	22.0	0.5
40	PI2 BPSK	50	26	21.18	21.26	21.18	22.5	0.0
40	PI2 BPSK	50	56	20.82	20.84	20.85	22.0	0.5
40	PI2 BPSK	100	0	20.76	20.73	20.78		
40	QPSK	1	1	21.28	21.32	21.31		
40	QPSK	1	53	21.14	21.13	21.21	22.5	0.0
40	QPSK	1	104	21.24	21.20	21.24		
40	QPSK	50	0	20.60	20.59	20.60	22.5	0.0
40	QPSK	50	26	21.18	21.20	21.19		
40	QPSK	50	56	20.82	20.82	20.80		
40	QPSK	100	0	20.18	20.21	20.20	21.5	1.0
40	16QAM	1	1	18.97	20.03	19.98	21.5	1.0
40	64QAM	1	1	18.48	18.50	18.47	20.0	2.5
40	256QAM	1	1	18.56	18.50	18.55	18.0	4.5
Channel				836500	841666	846832		
Frequency (MHz)				3565.02	3624.99	3684.99		
30	PI2 BPSK	1	1	21.15	21.12	21.02	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3560.01	3624.99	3690		
20	PI2 BPSK	1	1	21.09	21.16	21.05	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3557.52	3624.99	3692.49		
15	PI2 BPSK	1	1	21.09	21.11	21.07	22.5	0.0
Channel				836500	841666	846832		
Frequency (MHz)				3555	3624.99	3694.98		
10	PI2 BPSK	1	1	21.12	21.14	21.03	22.5	0.0



n48_Part96_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	846668	846732		
				3570	3524.99	3679.98		
40	PI2 BPSK	1	1	16.12	16.14	16.06		
40	PI2 BPSK	1	53	16.11	16.16	16.05	17.5	0.0
40	PI2 BPSK	1	104	16.15	16.16	16.08		
40	PI2 BPSK	50	0	16.13	16.17	16.11	17.5	0.0
40	PI2 BPSK	50	26	16.08	16.22	16.08	17.5	0.0
40	PI2 BPSK	50	56	16.09	16.20	16.07	17.5	0.0
40	PI2 BPSK	100	0	16.10	16.20	16.11		
40	QPSK	1	1	16.24	16.25	16.19		
40	QPSK	1	53	16.16	16.20	16.17	17.5	0.0
40	QPSK	1	104	16.18	16.22	16.15		
40	QPSK	50	0	16.07	16.18	16.12		
40	QPSK	50	26	16.16	16.23	16.13	17.5	0.0
40	QPSK	50	56	16.13	16.15	16.10		
40	QPSK	100	0	16.14	16.19	16.08	17.5	0.0
40	64QAM	1	1	16.08	16.22	16.12	17.5	0.0
40	64QAM	1	1	16.15	16.21	16.05	17.5	0.0
40	256QAM	1	1	16.13	16.20	16.06	17.5	0.0
Channel				8370.28	841663	845665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3824.99	3884.99		
30	PI2 BPSK	1	1	16.15	16.15	16.07	17.5	0.0
Channel				8383.24	841663	845663	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3824.99	3890		
20	PI2 BPSK	1	1	16.11	16.15	16.09	17.5	0.0
Channel				8387.88	841663	842166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3824.99	3892.49		
15	PI2 BPSK	1	1	16.13	16.20	16.12	17.5	0.0
Channel				8380.00	841666	842332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3824.99	3894.98		
10	PI2 BPSK	1	1	16.09	16.15	16.10	17.5	0.0

n48_Part96_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				846600	846668	846732		
				3570	3524.99	3679.98		
40	PI2 BPSK	1	1	20.20	20.34	20.24		
40	PI2 BPSK	1	53	20.18	20.13	20.24	21.5	0.0
40	PI2 BPSK	1	104	20.13	20.24	20.19		
40	PI2 BPSK	50	0	20.22	20.32	20.23	21.5	0.0
40	PI2 BPSK	50	26	20.29	20.25	20.19	21.5	0.0
40	PI2 BPSK	50	56	20.24	20.03	20.15	21.5	0.0
40	PI2 BPSK	100	0	20.15	20.15	20.10		
40	QPSK	1	1	20.32	20.35	20.26		
40	QPSK	1	53	20.26	20.15	20.27	21.5	0.0
40	QPSK	1	104	20.25	20.25	20.22		
40	QPSK	50	0	20.27	20.32	20.25		
40	QPSK	50	26	20.19	20.22	20.18	21.5	0.0
40	QPSK	50	56	20.24	20.15	20.11		
40	QPSK	100	0	20.23	20.28	20.22	20.5	0.0
40	64QAM	1	1	20.23	20.31	20.18	20.5	0.0
40	64QAM	1	1	18.58	18.71	18.62	19.0	1.5
40	256QAM	1	1	18.70	18.60	18.51	17.0	3.5
Channel				8370.28	841663	845665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3865.02	3824.99	3884.99		
30	PI2 BPSK	1	1	20.27	20.27	20.17	21.5	0.0
Channel				8383.24	841663	845663	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3860.01	3824.99	3890		
20	PI2 BPSK	1	1	20.27	20.31	20.18	21.5	0.0
Channel				8387.88	841663	842166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3857.52	3824.99	3892.49		
15	PI2 BPSK	1	1	20.30	20.28	20.20	21.5	0.0
Channel				8380.00	841666	842332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3855	3824.99	3894.98		
10	PI2 BPSK	1	1	20.20	20.30	20.17	21.5	0.0



Par270 n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	24.21	24.32	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.14	24.24	24.20		
100	PI2 BPSK	1	271	24.16	24.22	24.18		
100	PI2 BPSK	138	0	23.69	23.77	23.74	25.5	0.5
100	PI2 BPSK	138	69	24.12	24.14	24.01	26.0	0.0
100	PI2 BPSK	138	138	23.97	23.97	23.97	25.5	0.5
100	PI2 BPSK	270	0	23.70	23.72	23.66		
100	QPSK	1	1	24.33	24.30	24.30		
100	QPSK	1	137	24.17	24.23	24.15	26.0	0.0
100	QPSK	1	271	24.10	24.15	24.06		
100	QPSK	138	0	24.12	24.23	24.22		
100	QPSK	138	69	24.20	24.25	24.20	26.0	0.0
100	QPSK	138	138	24.11	24.16	24.09		
100	QPSK	270	0	23.27	23.28	23.24	25.0	1.0
100	16QAM	1	1	23.27	23.38	23.29	25.0	1.0
100	64QAM	1	1	21.81	21.90	21.83	23.5	2.5
100	256QAM	1	1	19.96	20.08	19.99	21.5	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	24.14	24.15	24.13	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	24.12	24.18	24.06	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	24.09	24.15	24.07	26.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	24.15	24.22	24.09	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	24.11	24.16	24.11	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	24.09	24.16	24.10	26.0	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	24.09	24.17	24.12	26.0	0.0

Par270 n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Higher Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	25.98	26.08	26.04		
100	PI2 BPSK	1	137	26.02	26.07	26.01	27.5	0.0
100	PI2 BPSK	1	271	25.89	26.01	25.90		
100	PI2 BPSK	138	0	25.51	25.53	25.47	27.0	0.5
100	PI2 BPSK	138	69	25.98	26.01	25.96	27.5	0.0
100	PI2 BPSK	138	138	25.47	25.49	25.37	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.52	25.48		
100	QPSK	1	1	25.99	26.02	26.05		
100	QPSK	1	137	25.95	26.03	25.92	27.5	0.0
100	QPSK	1	271	25.85	25.92	25.87		
100	QPSK	138	0	25.87	25.89	25.77		
100	QPSK	138	69	25.94	26.06	25.95	27.5	0.0
100	QPSK	138	138	25.70	25.76	25.68		
100	QPSK	270	0	24.96	24.97	24.87	26.5	1.0
100	16QAM	1	1	24.92	24.99	24.76	26.5	1.0
100	64QAM	1	1	23.43	23.47	23.37	25.0	2.5
100	256QAM	1	1	21.38	21.45	21.33	23.0	4.5
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	25.87	25.94	25.86	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	25.89	26.00	25.94	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	25.87	26.02	25.93	27.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	25.93	26.00	26.01	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	25.88	25.97	25.87	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840.00	3854.98		
30	PI2 BPSK	1	1	25.93	26.00	25.92	27.5	0.0
Channel				84000	86000	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	25.90	26.03	25.88	27.5	0.0



Par27Q n77_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.42	24.42	24.42	26.0	0.0
100	PI2 BPSK	1	137	24.41	24.41	24.41	26.0	0.0
100	PI2 BPSK	1	271	24.45	24.45	24.45	26.0	0.0
100	PI2 BPSK	133	0	23.93	23.93	23.93	25.5	0.5
100	PI2 BPSK	133	69	24.31	24.31	24.31	25.0	0.0
100	PI2 BPSK	133	133	24.15	24.15	24.15	25.5	0.5
100	PI2 BPSK	270	0	24.01	24.01	24.01	25.0	0.0
100	QPSK	1	1	24.53	24.53	24.53	26.0	0.0
100	QPSK	1	137	24.28	24.28	24.28	26.0	0.0
100	QPSK	1	271	24.32	24.32	24.32	26.0	0.0
100	QPSK	133	0	24.14	24.14	24.14	26.0	0.0
100	QPSK	133	69	24.59	24.59	24.59	26.0	0.0
100	QPSK	133	133	24.26	24.26	24.26	26.0	0.0
100	QPSK	270	0	23.62	23.62	23.62	25.0	1.0
100	16QAM	1	1	23.66	23.66	23.66	25.0	1.0
100	64QAM	1	1	21.81	21.81	21.81	23.5	2.5
100	256QAM	1	1	19.83	19.83	19.83	21.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.17	24.17	24.17	26.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.22	24.22	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.23	24.19	26.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.20	24.23	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.28	24.24	24.20	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.21	24.23	24.21	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.21	24.23	24.27	26.0	0.0

Par27Q n77 HPUE_Ant8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.99	25.99	25.99	27.5	0.0
100	PI2 BPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	PI2 BPSK	1	271	26.03	26.03	26.03	27.5	0.0
100	PI2 BPSK	133	0	25.51	25.51	25.51	27.0	0.5
100	PI2 BPSK	133	69	25.96	25.96	25.96	27.5	0.0
100	PI2 BPSK	133	133	25.50	25.50	25.50	27.0	0.5
100	PI2 BPSK	270	0	25.46	25.46	25.46	26.5	1.0
100	QPSK	1	1	26.11	26.11	26.11	27.5	0.0
100	QPSK	1	137	26.06	26.06	26.06	27.5	0.0
100	QPSK	1	271	26.04	26.04	26.04	27.5	0.0
100	QPSK	133	0	25.98	25.98	25.98	27.5	0.0
100	QPSK	133	69	26.08	26.08	26.08	27.5	0.0
100	QPSK	133	133	25.84	25.84	25.84	27.5	0.0
100	QPSK	270	0	24.91	24.91	24.91	26.5	1.0
100	16QAM	1	1	24.89	24.89	24.89	26.5	1.0
100	64QAM	1	1	23.64	23.64	23.64	25.0	2.5
100	256QAM	1	1	21.31	21.31	21.31	23.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.92	25.96	25.87	27.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.00	26.04	25.90	27.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.97	26.04	25.86	27.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.97	26.03	25.89	27.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.01	26.02	25.94	27.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.02	26.00	25.93	27.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.98	26.05	25.89	27.5	0.0



Par270 n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power Higher Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3790	3840	3900		
100	PI2 BPSK	1	1	16.90	17.01	16.93	19.0	0.0
100	PI2 BPSK	1	137	16.92	16.99	17.00		
100	PI2 BPSK	1	271	16.91	17.03	16.92		
100	PI2 BPSK	133	0	16.93	17.07	16.98	19.0	0.0
100	PI2 BPSK	135	69	16.94	17.04	16.99	19.0	0.0
100	PI2 BPSK	135	135	16.93	17.05	16.99	19.0	0.0
100	PI2 BPSK	270	0	16.95	17.02	16.99		
100	QPSK	1	1	17.01	17.10	17.06		
100	QPSK	1	137	17.00	17.04	16.99	19.0	0.0
100	QPSK	1	271	16.94	17.09	17.01		
100	QPSK	135	0	16.95	17.02	16.95		
100	QPSK	135	69	16.96	17.08	17.01	19.0	0.0
100	QPSK	135	135	16.87	17.04	16.93		
100	QPSK	270	0	16.91	17.06	16.99	19.0	0.0
100	16QAM	1	1	16.96	17.01	16.97	19.0	0.0
100	16QAM	1	1	16.95	17.07	16.98	19.0	0.0
100	256QAM	1	1	16.88	17.00	17.00	19.0	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	16.93	17.07	16.99	19.0	0.0
Channel				84833	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	16.90	17.01	16.93	19.0	0.0
Channel				84866	85000	85332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	16.92	17.02	16.99	19.0	0.0
Channel				84534	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	16.94	17.07	16.96	19.0	0.0
Channel				84000	85000	85000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3790	3840	3990		
40	PI2 BPSK	1	1	16.88	17.07	16.96	19.0	0.0
Channel				84168	85000	85432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	16.95	17.07	16.94	19.0	0.0
Channel				84133	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	16.88	17.04	16.99	19.0	0.0

Par270 n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	85500	86000		
				3790	3840	3900		
100	PI2 BPSK	1	1	16.48	16.51	16.40	20.5	0.0
100	PI2 BPSK	1	137	16.49	16.54	16.47		
100	PI2 BPSK	1	271	16.43	16.56	16.40		
100	PI2 BPSK	133	0	16.47	16.58	16.42	20.5	0.0
100	PI2 BPSK	135	69	16.48	16.56	16.45	20.5	0.0
100	PI2 BPSK	135	135	16.47	16.53	16.43	20.5	0.0
100	PI2 BPSK	270	0	16.42	16.54	16.41		
100	QPSK	1	1	16.57	16.61	16.52		
100	QPSK	1	137	16.56	16.58	16.48	20.5	0.0
100	QPSK	1	271	16.50	16.60	16.51		
100	QPSK	135	0	16.43	16.56	16.42		
100	QPSK	135	69	16.51	16.60	16.48	20.5	0.0
100	QPSK	135	135	16.49	16.54	16.45		
100	QPSK	270	0	16.44	16.51	16.39	20.5	0.0
100	16QAM	1	1	16.42	16.54	16.45	20.5	0.0
100	16QAM	1	1	16.48	16.53	16.41	20.5	0.0
100	256QAM	1	1	16.43	16.57	16.42	20.5	0.0
Channel				85000	85500	86000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3934.98		
90	PI2 BPSK	1	1	16.47	16.53	16.41	20.5	0.0
Channel				84833	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	16.44	16.53	16.40	20.5	0.0
Channel				84866	85000	85332	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	16.50	16.58	16.44	20.5	0.0
Channel				84534	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3954.99		
50	PI2 BPSK	1	1	16.50	16.57	16.41	20.5	0.0
Channel				84000	85000	85000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3790	3840	3990		
40	PI2 BPSK	1	1	16.44	16.52	16.45	20.5	0.0
Channel				84168	85000	85432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3954.98		
30	PI2 BPSK	1	1	16.46	16.58	16.43	20.5	0.0
Channel				84133	85000	85006	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	16.49	16.53	16.45	20.5	0.0



Par27Q n77_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				833392	833392	833392		
100	PI2 BPSK	1	1	17.20	17.20	17.20	19.0	0.0
100	PI2 BPSK	1	137	17.22	17.22	17.22	19.0	0.0
100	PI2 BPSK	1	271	17.18	17.18	17.18	19.0	0.0
100	PI2 BPSK	133	0	17.15	17.15	17.15	19.0	0.0
100	PI2 BPSK	133	69	17.16	17.16	17.16	19.0	0.0
100	PI2 BPSK	133	133	17.18	17.18	17.18	19.0	0.0
100	PI2 BPSK	270	0	17.23	17.23	17.23	19.0	0.0
100	QPSK	1	1	17.24	17.24	17.24	19.0	0.0
100	QPSK	1	137	17.16	17.16	17.16	19.0	0.0
100	QPSK	1	271	17.17	17.17	17.17	19.0	0.0
100	QPSK	133	0	17.17	17.17	17.17	19.0	0.0
100	QPSK	133	69	17.22	17.22	17.22	19.0	0.0
100	QPSK	133	133	17.20	17.20	17.20	19.0	0.0
100	QPSK	270	0	17.19	17.19	17.19	19.0	0.0
100	16QAM	1	1	17.20	17.20	17.20	19.0	0.0
100	16QAM	1	1	17.23	17.23	17.23	19.0	0.0
100	256QAM	1	1	17.15	17.15	17.15	19.0	0.0
Channel								
Frequency (MHz)				833000	833312	833696		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	17.14	17.12	17.12	19.0	0.0
Channel								
Frequency (MHz)				832664	833312	834000		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	17.20	17.19	17.08	19.0	0.0
Channel								
Frequency (MHz)				832600	833312	834000		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	17.21	17.22	17.13	19.0	0.0
Channel								
Frequency (MHz)				831664	833312	835000		
Frequency (MHz)				3475.02	3499.98	3524		
50	PI2 BPSK	1	1	17.18	17.15	17.14	19.0	0.0
Channel								
Frequency (MHz)				831328	833312	835392		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	17.13	17.17	17.12	19.0	0.0
Channel								
Frequency (MHz)				831000	833312	836000		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	17.21	17.17	17.14	19.0	0.0
Channel								
Frequency (MHz)				830664	833312	836000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	17.20	17.21	17.12	19.0	0.0

Par27Q n77 HPUE_Ant7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				833392	833392	833392		
100	PI2 BPSK	1	1	18.82	18.82	18.82	20.5	0.0
100	PI2 BPSK	1	137	18.87	18.87	18.87	20.5	0.0
100	PI2 BPSK	1	271	18.85	18.85	18.85	20.5	0.0
100	PI2 BPSK	133	0	18.85	18.85	18.85	20.5	0.0
100	PI2 BPSK	133	69	18.86	18.86	18.86	20.5	0.0
100	PI2 BPSK	133	133	18.80	18.80	18.80	20.5	0.0
100	PI2 BPSK	270	0	18.84	18.84	18.84	20.5	0.0
100	QPSK	1	1	18.95	18.95	18.95	20.5	0.0
100	QPSK	1	137	18.91	18.91	18.91	20.5	0.0
100	QPSK	1	271	18.87	18.87	18.87	20.5	0.0
100	QPSK	133	0	18.82	18.82	18.82	20.5	0.0
100	QPSK	133	69	18.88	18.88	18.88	20.5	0.0
100	QPSK	133	133	18.84	18.84	18.84	20.5	0.0
100	QPSK	270	0	18.80	18.80	18.80	20.5	0.0
100	16QAM	1	1	18.84	18.84	18.84	20.5	0.0
100	16QAM	1	1	18.86	18.86	18.86	20.5	0.0
100	256QAM	1	1	18.82	18.82	18.82	20.5	0.0
Channel								
Frequency (MHz)				833000	833312	833696		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	18.87	18.80	18.76	20.5	0.0
Channel								
Frequency (MHz)				832664	833312	834000		
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	18.79	18.82	18.79	20.5	0.0
Channel								
Frequency (MHz)				832600	833312	834000		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	18.84	18.84	18.82	20.5	0.0
Channel								
Frequency (MHz)				831664	833312	835000		
Frequency (MHz)				3475.02	3499.98	3524		
50	PI2 BPSK	1	1	18.83	18.84	18.81	20.5	0.0
Channel								
Frequency (MHz)				831328	833312	835392		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI2 BPSK	1	1	18.81	18.80	18.74	20.5	0.0
Channel								
Frequency (MHz)				831000	833312	836000		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	18.86	18.79	18.81	20.5	0.0
Channel								
Frequency (MHz)				830664	833312	836000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	18.86	18.80	18.79	20.5	0.0



Par270 n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	15.55	15.68	15.60	17.5	0.0
100	PI2 BPSK	1	137	15.57	15.63	15.59		
100	PI2 BPSK	1	271	15.57	15.65	15.59		
100	PI2 BPSK	138	0	15.63	15.71	15.62	17.5	0.0
100	PI2 BPSK	138	69	15.58	15.67	15.62	17.5	0.0
100	PI2 BPSK	138	138	15.60	15.71	15.67	17.5	0.0
100	PI2 BPSK	270	0	15.56	15.70	15.61		
100	QPSK	1	1	15.67	15.76	15.72		
100	QPSK	1	137	15.61	15.72	15.68		
100	QPSK	1	271	15.59	15.73	15.71	17.5	0.0
100	QPSK	138	0	15.65	15.66	15.65		
100	QPSK	138	69	15.64	15.72	15.68	17.5	0.0
100	QPSK	138	138	15.56	15.67	15.60		
100	QPSK	270	0	15.57	15.70	15.66	17.5	0.0
100	16QAM	1	1	15.56	15.68	15.60	17.5	0.0
100	64QAM	1	1	15.61	15.71	15.65	17.5	0.0
100	256QAM	1	1	15.62	15.63	15.61	17.5	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	15.61	15.63	15.60	17.5	0.0
Channel				86500	88000	89500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	15.63	15.65	15.64	17.5	0.0
Channel				86500	88000	8949.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	15.59	15.70	15.66	17.5	0.0
Channel				86500	88000	8954.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	15.60	15.63	15.63	17.5	0.0
Channel				86500	88000	8940.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	15.60	15.65	15.64	17.5	0.0
Channel				84168	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3844.98		
30	PI2 BPSK	1	1	15.63	15.67	15.59	17.5	0.0
Channel				84133	86000	86406	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	15.55	15.69	15.60	17.5	0.0

Par270 n77 HPUE_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				85000	86500	88000		
100	PI2 BPSK	1	1	17.39	17.42	17.35		
100	PI2 BPSK	1	137	17.37	17.43	17.34	19.0	0.0
100	PI2 BPSK	1	271	17.36	17.43	17.37		
100	PI2 BPSK	138	0	17.38	17.43	17.30	19.0	0.0
100	PI2 BPSK	138	69	17.33	17.45	17.37	19.0	0.0
100	PI2 BPSK	138	138	17.36	17.45	17.35	19.0	0.0
100	PI2 BPSK	270	0	17.37	17.42	17.32		
100	QPSK	1	1	17.46	17.55	17.46		
100	QPSK	1	137	17.37	17.54	17.39		
100	QPSK	1	271	17.39	17.53	17.45	19.0	0.0
100	QPSK	138	0	17.39	17.46	17.32		
100	QPSK	138	69	17.42	17.47	17.38	19.0	0.0
100	QPSK	138	138	17.35	17.41	17.37		
100	QPSK	270	0	17.34	17.42	17.33	19.0	0.0
100	16QAM	1	1	17.37	17.39	17.33	19.0	0.0
100	64QAM	1	1	17.35	17.39	17.36	19.0	0.0
100	256QAM	1	1	17.36	17.41	17.33	19.0	0.0
Channel				85000	86500	88000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3745.02	3840	3834.98		
90	PI2 BPSK	1	1	17.41	17.38	17.36	19.0	0.0
Channel				86500	88000	8939.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3740.01	3840	3839.99		
80	PI2 BPSK	1	1	17.36	17.45	17.30	19.0	0.0
Channel				86500	88000	8949.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3730.02	3840	3849.98		
60	PI2 BPSK	1	1	17.40	17.40	17.34	19.0	0.0
Channel				86500	88000	8954.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3725.01	3840	3854.99		
50	PI2 BPSK	1	1	17.34	17.41	17.29	19.0	0.0
Channel				86500	88000	8940.00	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3720	3840	3900		
40	PI2 BPSK	1	1	17.34	17.41	17.37	19.0	0.0
Channel				84168	86000	86432	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3715.02	3840	3844.98		
30	PI2 BPSK	1	1	17.39	17.44	17.33	19.0	0.0
Channel				84133	86000	86406	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3710.01	3840	3869.99		
20	PI2 BPSK	1	1	17.35	17.43	17.32	19.0	0.0



Par27Q n77_Ant9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				33332				
100	PI2 BPSK	1	1	16.03	16.03		17.5	0.0
100	PI2 BPSK	1	137	16.02	16.02			
100	PI2 BPSK	1	271	16.04	16.04			
100	PI2 BPSK	133	0	16.04	16.04		17.5	0.0
100	PI2 BPSK	133	69	16.00	16.00		17.5	0.0
100	PI2 BPSK	133	133	16.02	16.02		17.5	0.0
100	PI2 BPSK	270	0	16.03	16.03			
100	QPSK	1	1	16.02	16.02		17.5	0.0
100	QPSK	1	137	16.04	16.04			
100	QPSK	1	271	16.07	16.07			
100	QPSK	133	0	16.04	16.04		17.5	0.0
100	QPSK	133	69	16.08	16.08			
100	QPSK	133	133	16.02	16.02		17.5	0.0
100	QPSK	270	0	16.04	16.04		17.5	0.0
100	16QAM	1	1	16.05	16.05		17.5	0.0
100	64QAM	1	1	16.05	16.05		17.5	0.0
100	256QAM	1	1	16.07	16.07		17.5	0.0
Channel				63300	33332	63368	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	15.99	15.98	15.98	17.5	0.0
Channel				63663	33332	63699	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	16.05	15.97	15.98	17.5	0.0
Channel				63800	33332	63868	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	16.01	16.02	15.96	17.5	0.0
Channel				63166	33332	63200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3502		
50	PI2 BPSK	1	1	16.05	16.02	15.92	17.5	0.0
Channel				63134	33332	63192	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3509.98		
40	PI2 BPSK	1	1	15.99	16.00	15.95	17.5	0.0
Channel				63100	33332	63096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	15.99	16.03	15.90	17.5	0.0
Channel				63968	33332	63000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	16.07	16.02	15.54	17.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				33332				
100	PI2 BPSK	1	1	17.46	17.46		19.0	0.0
100	PI2 BPSK	1	137	17.42	17.42			
100	PI2 BPSK	1	271	17.47	17.47			
100	PI2 BPSK	133	0	17.45	17.45		19.0	0.0
100	PI2 BPSK	133	69	17.40	17.40		19.0	0.0
100	PI2 BPSK	133	133	17.42	17.42		19.0	0.0
100	PI2 BPSK	270	0	17.48	17.48			
100	QPSK	1	1	17.54	17.54		19.0	0.0
100	QPSK	1	137	17.51	17.51			
100	QPSK	1	271	17.53	17.53			
100	QPSK	133	0	17.47	17.47		19.0	0.0
100	QPSK	133	69	17.49	17.49			
100	QPSK	133	133	17.44	17.44		19.0	0.0
100	QPSK	270	0	17.46	17.46		19.0	0.0
100	16QAM	1	1	17.45	17.45		19.0	0.0
100	64QAM	1	1	17.45	17.45		19.0	0.0
100	256QAM	1	1	17.41	17.41		19.0	0.0
Channel				63300	33332	63368	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI2 BPSK	1	1	17.42	17.48	17.41	19.0	0.0
Channel				63663	33332	63699	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	PI2 BPSK	1	1	17.37	17.42	17.40	19.0	0.0
Channel				63800	33332	63868	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI2 BPSK	1	1	17.39	17.41	17.39	19.0	0.0
Channel				63166	33332	63200	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3502		
50	PI2 BPSK	1	1	17.36	17.47	17.38	19.0	0.0
Channel				63134	33332	63192	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3509.98		
40	PI2 BPSK	1	1	17.38	17.40	17.34	19.0	0.0
Channel				63100	33332	63096	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI2 BPSK	1	1	17.40	17.46	17.42	19.0	0.0
Channel				63968	33332	63000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI2 BPSK	1	1	17.39	17.48	17.38	19.0	0.0



Par270 n77_Ant10

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel	85000	85500	86000					
Frequency (MHz)	3790	3840	3900					
100	PK2 BPSK	1	1	18.62	18.73	18.85	20.5	0.0
100	PK2 BPSK	1	137	18.65	18.78	18.86	20.5	0.0
100	PK2 BPSK	1	271	18.66	18.73	18.81	20.5	0.0
100	PK2 BPSK	133	0	18.72	18.74	18.89	20.5	0.0
100	PK2 BPSK	135	69	18.73	18.74	18.81	20.5	0.0
100	PK2 BPSK	135	135	18.84	18.75	18.71	20.5	0.0
100	PK2 BPSK	270	0	18.72	18.73	18.70	20.5	0.0
100	QPSK	1	1	18.85	18.83	18.92	20.5	0.0
100	QPSK	1	137	18.90	18.86	18.95	20.5	0.0
100	QPSK	1	271	18.86	18.88	18.78	20.5	0.0
100	QPSK	135	0	18.89	18.79	18.87	20.5	0.0
100	QPSK	135	69	18.77	18.87	18.84	20.5	0.0
100	QPSK	135	135	18.89	18.75	18.71	20.5	0.0
100	QPSK	270	0	18.86	18.71	18.89	20.5	0.0
100	16QAM	1	1	18.61	18.75	18.81	20.5	0.0
100	16QAM	1	1	18.73	18.79	18.72	20.5	0.0
100	256QAM	1	1	18.65	18.73	18.60	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3745.02	3840	3934.98					
90	PK2 BPSK	1	1	18.65	18.75	18.79	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3740.01	3840	3939.99					
80	PK2 BPSK	1	1	18.65	18.80	18.75	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3730.02	3840	3849.98					
60	PK2 BPSK	1	1	18.71	18.79	18.77	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3725.01	3840	3954.99					
50	PK2 BPSK	1	1	18.67	18.81	18.79	20.5	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3720	3840	3960					
40	PK2 BPSK	1	1	18.67	18.78	18.79	20.5	0.0
Channel	84768	85000	85232	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3715.02	3840.00	3954.98					
30	PK2 BPSK	1	1	18.64	18.76	18.75	20.5	0.0
Channel	84733	85000	85266	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3710.01	3840	3959.99					
20	PK2 BPSK	1	1	18.65	18.79	18.77	20.5	0.0

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Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel	85000	85500	86000					
Frequency (MHz)	3790	3840	3900					
100	PK2 BPSK	1	1	20.36	20.39	20.37	22.0	0.0
100	PK2 BPSK	1	137	20.43	20.41	20.46	22.0	0.0
100	PK2 BPSK	1	271	20.48	20.51	20.46	22.0	0.0
100	PK2 BPSK	133	0	20.39	20.47	20.43	22.0	0.0
100	PK2 BPSK	135	69	20.33	20.51	20.49	22.0	0.0
100	PK2 BPSK	135	135	20.38	20.41	20.47	22.0	0.0
100	PK2 BPSK	270	0	20.45	20.40	20.44	22.0	0.0
100	QPSK	1	1	20.48	20.54	20.51	22.0	0.0
100	QPSK	1	137	20.38	20.52	20.38	22.0	0.0
100	QPSK	1	271	20.46	20.43	20.47	22.0	0.0
100	QPSK	135	0	20.36	20.49	20.47	22.0	0.0
100	QPSK	135	69	20.34	20.43	20.39	22.0	0.0
100	QPSK	135	135	20.39	20.46	20.49	22.0	0.0
100	QPSK	270	0	20.45	20.48	20.46	22.0	0.0
100	16QAM	1	1	20.45	20.47	20.38	22.0	0.0
100	16QAM	1	1	20.40	20.45	20.41	22.0	0.0
100	256QAM	1	1	20.45	20.46	20.47	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3745.02	3840	3934.98					
90	PK2 BPSK	1	1	20.30	20.36	20.28	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3740.01	3840	3939.99					
80	PK2 BPSK	1	1	20.29	20.39	20.36	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3730.02	3840	3849.98					
60	PK2 BPSK	1	1	20.30	20.45	20.29	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3725.01	3840	3954.99					
50	PK2 BPSK	1	1	20.32	20.42	20.24	22.0	0.0
Channel	85000	85500	86000	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3720	3840	3960					
40	PK2 BPSK	1	1	20.22	20.33	20.24	22.0	0.0
Channel	84768	85000	85232	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3715.02	3840.00	3954.98					
30	PK2 BPSK	1	1	20.22	20.36	20.33	22.0	0.0
Channel	84733	85000	85266	Tune-up limit (dBm)	MFR (dB)			
Frequency (MHz)	3710.01	3840	3959.99					
20	PK2 BPSK	1	1	20.35	20.35	20.24	22.0	0.0



Par27Q n77_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	19.10				
100	PI2 BPSK	1	137	19.12			20.5	0.0
100	PI2 BPSK	1	271	19.08				
100	PI2 BPSK	135	0	19.06			20.5	0.0
100	PI2 BPSK	135	66	19.04			20.5	0.0
100	PI2 BPSK	135	138	19.03			20.5	0.0
100	PI2 BPSK	270	0	19.07				
100	QPSK	1	1	19.15				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.09				
100	QPSK	135	0	19.11			20.5	0.0
100	QPSK	135	66	19.13				
100	QPSK	135	138	19.04			20.5	0.0
100	QPSK	270	0	19.07				
100	64QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.09			20.5	0.0
100	256QAM	1	1	19.06			20.5	0.0
Channel				63300	3499.98	63366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99	20.5	0.0
90	PI2 BPSK	1	1	19.08	19.05	18.92	20.5	0.0
Channel				63358	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510	20.5	0.0
80	PI2 BPSK	1	1	19.00	19.09	18.89	20.5	0.0
Channel				63000	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490	3499.98	3519.99	20.5	0.0
60	PI2 BPSK	1	1	19.01	19.03	18.97	20.5	0.0
Channel				63168	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3505	20.5	0.0
50	PI2 BPSK	1	1	18.99	19.14	18.94	20.5	0.0
Channel				63134	3499.98	3504.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98	20.5	0.0
40	PI2 BPSK	1	1	19.01	19.05	18.89	20.5	0.0
Channel				63100	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3534.99	20.5	0.0
30	PI2 BPSK	1	1	18.93	19.02	18.98	20.5	0.0
Channel				63066	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3540	20.5	0.0
20	PI2 BPSK	1	1	19.02	19.08	18.89	20.5	0.0

Par27Q n77 HPUE_Ant10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)				63332	3499.98			
100	PI2 BPSK	1	1	20.61				
100	PI2 BPSK	1	137	20.58			22.0	0.0
100	PI2 BPSK	1	271	20.60				
100	PI2 BPSK	135	0	20.55			22.0	0.0
100	PI2 BPSK	135	66	20.57			22.0	0.0
100	PI2 BPSK	135	138	20.61			22.0	0.0
100	PI2 BPSK	270	0	20.58				
100	QPSK	1	1	20.66				
100	QPSK	1	137	20.61			22.0	0.0
100	QPSK	1	271	20.63				
100	QPSK	135	0	20.58			22.0	0.0
100	QPSK	135	66	20.64				
100	QPSK	135	138	20.61			22.0	0.0
100	QPSK	270	0	20.60				
100	64QAM	1	1	20.56			22.0	0.0
100	64QAM	1	1	20.64			22.0	0.0
100	256QAM	1	1	20.56			22.0	0.0
Channel				63300	3499.98	63366	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3495	3499.98	3504.99	20.5	0.0
90	PI2 BPSK	1	1	20.60	20.53	20.43	22.0	0.0
Channel				63358	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490.02	3499.98	3510	20.5	0.0
80	PI2 BPSK	1	1	20.64	20.63	20.54	22.0	0.0
Channel				63000	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3490	3499.98	3519.99	20.5	0.0
60	PI2 BPSK	1	1	20.61	20.56	20.52	22.0	0.0
Channel				63168	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3475.02	3499.98	3505	20.5	0.0
50	PI2 BPSK	1	1	20.47	20.51	20.55	22.0	0.0
Channel				63134	3499.98	3504.98	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98	20.5	0.0
40	PI2 BPSK	1	1	20.58	20.56	20.56	22.0	0.0
Channel				63100	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3465	3499.98	3534.99	20.5	0.0
30	PI2 BPSK	1	1	20.58	20.53	20.46	22.0	0.0
Channel				63066	3499.98	3504.99	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				3460.02	3499.98	3540	20.5	0.0
20	PI2 BPSK	1	1	20.61	20.52	20.52	22.0	0.0



UL MIMO Mode_Full Power

n41_FCC_Ant7									
BW [MHz]	Modulation	RB 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	21.36	21.45	21.38			
100	PI2 BPSK	1	137	21.41	21.46	21.41	23.0	0.0	
100	PI2 BPSK	1	271	21.36	21.45	21.43			
100	PI2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5	
100	PI2 BPSK	135	66	21.37	21.42	21.34	23.0	0.0	
100	PI2 BPSK	135	138	20.83	20.91	20.89	22.5	0.5	
100	PI2 BPSK	270	0	20.79	20.88	20.81			
100	QPSK	1	1	21.44	21.51	21.38	23.0	0.0	
100	QPSK	1	137	21.38	21.50	21.37			
100	QPSK	1	271	21.43	21.45	21.36			
100	QPSK	135	0	21.22	21.34	21.33	23.0	0.0	
100	QPSK	135	66	21.44	21.46	21.33			
100	QPSK	135	138	21.40	21.43	21.30			
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0	
100	NOQAM	1	1	20.13	20.34	20.14	22.0	1.0	
100	64QAM	1	1	18.82	18.86	18.72	20.5	2.5	
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	21.37	21.36	21.31	23.0	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	21.36	21.37	21.31	23.0	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
100	PI2 BPSK	1	1	22.98	23.05	22.93			
100	PI2 BPSK	1	137	22.89	23.02	22.84	24.5	0.0	
100	PI2 BPSK	1	271	22.86	22.98	22.89			
100	PI2 BPSK	135	0	22.26	22.39	22.29	24.0	0.5	
100	PI2 BPSK	135	66	22.87	22.99	22.86	24.5	0.0	
100	PI2 BPSK	135	138	22.44	22.47	22.41	24.0	0.5	
100	PI2 BPSK	270	0	22.48	22.51	22.41			
100	QPSK	1	1	22.96	23.08	22.98	24.5	0.0	
100	QPSK	1	137	22.92	23.06	22.97			
100	QPSK	1	271	23.03	23.04	22.98			
100	QPSK	135	0	22.86	22.91	22.81	24.5	0.0	
100	QPSK	135	66	22.92	22.95	22.88			
100	QPSK	135	138	22.89	22.99	22.84			
100	QPSK	270	0	21.90	21.96	21.86	23.5	1.0	
100	NOQAM	1	1	22.04	22.08	21.98	23.5	1.0	
100	64QAM	1	1	20.43	20.49	20.37	22.0	2.5	
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	22.88	22.99	22.92	24.5	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0	



n41_FCC_Ant8

BW (MHz)	Modulation	RB 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	21.36	21.45	21.38		
100	P12 BPSK	1	137	21.41	21.46	21.41	23.0	0.0
100	P12 BPSK	1	271	21.36	21.45	21.43		
100	P12 BPSK	135	0	20.84	20.85	20.77	22.5	0.5
100	P12 BPSK	135	69	21.37	21.42	21.34	23.0	0.0
100	P12 BPSK	135	138	20.83	20.87	20.80		
100	P12 BPSK	270	0	20.79	20.88	20.81	22.5	0.5
100	QPSK	1	1	21.44	21.51	21.38		
100	QPSK	1	137	21.38	21.50	21.37	23.0	0.0
100	QPSK	1	271	21.43	21.45	21.36		
100	QPSK	135	0	21.22	21.34	21.33		
100	QPSK	135	69	21.44	21.46	21.33	23.0	0.0
100	QPSK	135	138	21.40	21.43	21.30		
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.5
100	16QAM	1	1	18.82	18.85	18.72	20.5	2.5
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	21.35	21.42	21.37	23.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	21.40	21.42	21.35	23.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	21.42	21.44	21.32	23.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	21.42	21.44	21.30	23.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	21.37	21.36	21.31	23.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	21.39	21.44	21.27	23.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	21.37	21.37	21.31	23.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	21.36	21.37	21.31	23.0	0.0

n41_FCC_HPUE_Ant8

BW (MHz)	Modulation	RB 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	22.98	23.05	22.93		
100	P12 BPSK	1	137	22.86	22.92	22.94	24.5	0.0
100	P12 BPSK	1	271	22.98	22.98	22.89		
100	P12 BPSK	135	0	22.26	22.39	22.25	24.0	0.5
100	P12 BPSK	135	69	22.87	22.99	22.86	24.5	0.0
100	P12 BPSK	135	138	22.44	22.47	22.41		
100	P12 BPSK	270	0	22.48	22.51	22.41	24.0	0.5
100	QPSK	1	1	22.96	23.08	22.98		
100	QPSK	1	137	22.95	23.05	22.97	24.5	0.0
100	QPSK	1	271	23.03	23.04	22.98		
100	QPSK	135	0	22.86	22.91	22.81		
100	QPSK	135	69	22.87	22.95	22.93	24.5	0.0
100	QPSK	135	138	22.89	22.99	22.84		
100	QPSK	270	0	21.90	21.96	21.86	23.5	1.0
100	16QAM	1	1	21.04	21.08	21.05	23.5	1.5
100	16QAM	1	1	20.43	20.49	20.37	22.0	2.5
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	22.93	22.88	22.88	24.5	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	22.93	23.02	22.91	24.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	22.88	22.89	22.92	24.5	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	22.92	23.04	22.90	24.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	22.94	22.99	22.90	24.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	22.90	23.05	22.91	24.5	0.0



n41_FCC_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.46	21.47	21.44		
100	P12 BPSK	1	137	21.44	21.51	21.49	23.0	0.0
100	P12 BPSK	1	271	21.49	21.55	21.49		
100	P12 BPSK	135	0	20.89	20.92	20.82	22.5	0.5
100	P12 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	P12 BPSK	135	138	20.50	21.07	20.88		
100	P12 BPSK	270	0	20.88	20.93	20.88	22.5	0.5
100	QPSK	1	1	21.47	21.65	21.55		
100	QPSK	1	137	21.43	21.54	21.50	23.0	0.0
100	QPSK	1	271	21.49	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.51	21.63	21.48	23.0	0.0
100	QPSK	135	138	21.42	21.50	21.41		
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.5
100	16QAM	1	1	18.50	18.94	18.50	20.5	2.5
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	21.48	21.43	21.36	23.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	21.43	21.42	21.39	23.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	21.43	21.43	21.40	23.0	0.0

n41_FCC_HPUE_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.91	23.02	23.00		
100	P12 BPSK	1	137	22.98	23.08	23.01	24.5	0.0
100	P12 BPSK	1	271	22.94	23.06	22.99		
100	P12 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	P12 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	P12 BPSK	135	138	22.52	22.62	22.61		
100	P12 BPSK	270	0	22.46	22.58	22.52	24.0	0.5
100	QPSK	1	1	23.03	23.12	22.99		
100	QPSK	1	137	22.98	23.11	23.06	24.5	0.0
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.54	22.96	22.84		
100	QPSK	135	69	23.06	23.07	22.96	24.5	0.0
100	QPSK	135	138	22.91	23.02	22.99		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.5
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	22.96	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	23.00	22.99	23.05	24.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	22.98	22.99	23.04	24.5	0.0



n41_FCC_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.46	21.47	21.44		
100	P12 BPSK	1	137	21.44	21.51	21.49	23.0	0.0
100	P12 BPSK	1	271	21.49	21.55	21.49		
100	P12 BPSK	135	0	20.89	20.92	20.82	22.5	0.5
100	P12 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	P12 BPSK	135	138	20.90	21.07	20.88		
100	P12 BPSK	270	0	20.88	20.93	20.88	22.5	0.5
100	QPSK	1	1	21.47	21.65	21.55		
100	QPSK	1	137	21.43	21.54	21.50	23.0	0.0
100	QPSK	1	271	21.49	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.51	21.63	21.48	23.0	0.0
100	QPSK	135	138	21.42	21.50	21.41		
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.5
100	16QAM	1	1	18.80	18.94	18.90	20.5	2.5
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	21.48	21.43	21.36	23.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	21.43	21.42	21.39	23.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	21.43	21.43	21.40	23.0	0.0

n41_FCC_HPUE_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.91	23.02	23.00		
100	P12 BPSK	1	137	22.98	23.08	23.01	24.5	0.0
100	P12 BPSK	1	271	22.94	23.06	22.99		
100	P12 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	P12 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	P12 BPSK	135	138	22.52	22.62	22.61		
100	P12 BPSK	270	0	22.46	22.58	22.52	24.0	0.5
100	QPSK	1	1	23.03	23.12	22.99		
100	QPSK	1	137	22.98	23.11	23.06	24.5	0.0
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.54	22.96	22.84		
100	QPSK	135	69	23.06	23.07	22.96	24.5	0.0
100	QPSK	135	138	22.91	23.02	22.99		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.5
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	22.96	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	23.00	22.99	23.05	24.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	22.98	22.99	23.04	24.5	0.0



UL MIMO Mode_State 6

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.22	16.30	16.25			
100	PI2 BPSK	1	137	16.25	16.31	16.28	17.5	0.0	
100	PI2 BPSK	1	271	16.19	16.30	16.26			
100	PI2 BPSK	135	0	16.24	16.37	16.26	17.5	0.0	
100	PI2 BPSK	135	69	16.20	16.32	16.26	17.5	0.0	
100	PI2 BPSK	135	138	16.19	16.34	16.24	17.5	0.0	
100	PI2 BPSK	270	0	16.18	16.32	16.23			
100	QPSK	1	1	16.34	16.41	16.39			
100	QPSK	1	137	16.28	16.32	16.34	17.5	0.0	
100	QPSK	1	271	16.29	16.36	16.36			
100	QPSK	135	0	16.22	16.31	16.26			
100	QPSK	135	69	16.27	16.40	16.31	17.5	0.0	
100	QPSK	135	138	16.26	16.37	16.27			
100	QPSK	270	0	16.25	16.39	16.25	17.5	0.0	
100	16QAM	1	1	16.26	16.39	16.26	17.5	0.0	
100	64QAM	1	1	16.18	16.30	16.26	17.5	0.0	
100	256QAM	1	1	16.25	16.38	16.23	17.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	16.25	16.32	16.30	17.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	16.20	16.31	16.30	17.5	0.0	
Channel									
Frequency (MHz)									
75	PI2 BPSK	1	1	16.20	16.37	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	16.23	16.37	16.24	17.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	16.20	16.34	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	16.18	16.33	16.22	17.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	16.24	16.39	16.27	17.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	16.22	16.34	16.26	17.5	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.47	17.61	17.54			
100	PI2 BPSK	1	137	17.53	17.56	17.53	19.0	0.0	
100	PI2 BPSK	1	271	17.50	17.54	17.55			
100	PI2 BPSK	135	0	17.47	17.55	17.53	19.0	0.0	
100	PI2 BPSK	135	69	17.46	17.54	17.50	19.0	0.0	
100	PI2 BPSK	135	138	17.54	17.55	17.48	19.0	0.0	
100	PI2 BPSK	270	0	17.54	17.56	17.48			
100	QPSK	1	1	17.61	17.66	17.63			
100	QPSK	1	137	17.56	17.62	17.56	19.0	0.0	
100	QPSK	1	271	17.53	17.63	17.58			
100	QPSK	135	0	17.53	17.57	17.50			
100	QPSK	135	69	17.55	17.63	17.56	19.0	0.0	
100	QPSK	135	138	17.49	17.56	17.50			
100	QPSK	270	0	17.48	17.56	17.54	19.0	0.0	
100	16QAM	1	1	17.52	17.56	17.54	19.0	0.0	
100	64QAM	1	1	17.46	17.56	17.52	19.0	0.0	
100	256QAM	1	1	17.47	17.58	17.51	19.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	17.52	17.61	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	17.47	17.57	17.54	19.0	0.0	
Channel									
Frequency (MHz)									
75	PI2 BPSK	1	1	17.49	17.56	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	17.49	17.58	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	17.53	17.59	17.49	19.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.53	17.54	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.50	17.60	17.49	19.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	17.54	17.54	17.47	19.0	0.0	



n41_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
	Frequency (MHz)			509202	518598	528000		
100	Pi2 BPSK	1	1	21.56	21.45	21.38	23.0	0.0
100	Pi2 BPSK	1	137	21.41	21.46	21.41		
100	Pi2 BPSK	1	271	21.36	21.45	21.43		
100	Pi2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5
100	Pi2 BPSK	135	69	21.37	21.42	21.34	23.0	0.0
100	Pi2 BPSK	135	138	20.83	20.91	20.89	22.5	0.5
100	Pi2 BPSK	270	0	20.79	20.83	20.81		
100	QPSK	1	1	21.44	21.51	21.38	23.0	0.0
100	QPSK	1	137	21.38	21.50	21.37		
100	QPSK	1	271	21.43	21.45	21.36		
100	QPSK	135	0	21.22	21.34	21.33		
100	QPSK	135	69	21.44	21.46	21.33	23.0	0.0
100	QPSK	135	138	21.40	21.43	21.30		
100	QPSK	270	0	20.30	20.30	20.24	22.0	1.0
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0
100	16QAM	1	1	18.82	18.86	18.72	20.5	2.5
100	16QAM	1	1	16.77	16.81	16.78	18.5	4.5
Channel								
	Frequency (MHz)			508200	518598	528996	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0
Channel								
	Frequency (MHz)			507204	518598	528996	Tune-up limit (dBm)	MPR
80	Pi2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0
Channel								
	Frequency (MHz)			506202	518598	531000	Tune-up limit (dBm)	MPR
70	Pi2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0
Channel								
	Frequency (MHz)			505200	518598	531996	Tune-up limit (dBm)	MPR
60	Pi2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0
Channel								
	Frequency (MHz)			504204	518598	532998	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	21.37	21.39	21.31	23.0	0.0
Channel								
	Frequency (MHz)			503202	518598	534000	Tune-up limit (dBm)	MPR
40	Pi2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0
Channel								
	Frequency (MHz)			502200	518598	534996	Tune-up limit (dBm)	MPR
30	Pi2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0
Channel								
	Frequency (MHz)			501204	518598	535998	Tune-up limit (dBm)	MPR
20	Pi2 BPSK	1	1	21.36	21.37	21.31	23.0	0.0

n41_FCC_HPUE_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
	Frequency (MHz)			509202	518598	528000		
100	Pi2 BPSK	1	1	22.98	23.05	22.93	24.5	0.0
100	Pi2 BPSK	1	137	22.89	23.02	22.94		
100	Pi2 BPSK	1	271	22.86	22.86	22.89		
100	Pi2 BPSK	135	0	22.26	22.29	22.20	24.0	0.5
100	Pi2 BPSK	135	69	22.87	22.99	22.86	24.5	0.0
100	Pi2 BPSK	135	138	22.44	22.47	22.41	24.0	0.5
100	Pi2 BPSK	270	0	22.48	22.51	22.41		
100	QPSK	1	1	22.96	23.08	22.98	24.5	0.0
100	QPSK	1	137	22.95	23.05	22.97		
100	QPSK	1	271	23.03	23.04	22.96		
100	QPSK	135	0	22.86	22.91	22.81		
100	QPSK	135	69	22.82	22.85	22.88	24.5	0.0
100	QPSK	135	138	22.89	22.99	22.94		
100	QPSK	270	0	21.90	21.95	21.88	23.5	1.0
100	16QAM	1	1	22.04	22.08	22.05	23.5	1.0
100	16QAM	1	1	20.43	20.48	20.37	22.0	2.5
100	16QAM	1	1	18.18	18.32	18.29	20.0	4.5
Channel								
	Frequency (MHz)			508200	518598	528996	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0
Channel								
	Frequency (MHz)			507204	518598	528996	Tune-up limit (dBm)	MPR
80	Pi2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0
Channel								
	Frequency (MHz)			506202	518598	531000	Tune-up limit (dBm)	MPR
70	Pi2 BPSK	1	1	22.93	22.99	22.92	24.5	0.0
Channel								
	Frequency (MHz)			505200	518598	531996	Tune-up limit (dBm)	MPR
60	Pi2 BPSK	1	1	22.97	23.02	22.95	24.5	0.0
Channel								
	Frequency (MHz)			504204	518598	532998	Tune-up limit (dBm)	MPR
50	Pi2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0
Channel								
	Frequency (MHz)			503202	518598	534000	Tune-up limit (dBm)	MPR
40	Pi2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
	Frequency (MHz)			502200	518598	534996	Tune-up limit (dBm)	MPR
30	Pi2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0
Channel								
	Frequency (MHz)			501204	518598	535998	Tune-up limit (dBm)	MPR
20	Pi2 BPSK	1	1	22.90	23.00	22.91	24.5	0.0



n41_FCC_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				509202	518598	528000		
100	P1/2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0
100	P1/2 BPSK	1	137	21.44	21.51	21.49		
100	P1/2 BPSK	1	271	21.49	21.55	21.49		
100	P1/2 BPSK	135	0	20.59	20.92	20.92	22.5	0.5
100	P1/2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	P1/2 BPSK	135	138	20.50	21.01	20.88	22.5	0.5
100	P1/2 BPSK	270	0	20.58	20.93	20.88		
100	QPSK	1	1	21.47	21.85	21.55	23.0	0.0
100	QPSK	1	137	21.43	21.54	21.50		
100	QPSK	1	271	21.49	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.51	21.63	21.49	23.0	0.0
100	QPSK	135	138	21.42	21.50	21.41		
100	QPSK	270	0	20.37	20.33	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0
100	16QAM	1	1	18.80	18.94	18.90	20.5	2.5
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
50	P1/2 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	P1/2 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	P1/2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	P1/2 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	P1/2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	P1/2 BPSK	1	1	21.48	21.43	21.35	23.0	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	P1/2 BPSK	1	1	20.11	20.92	20.74	23.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	P1/2 BPSK	1	1	21.42	21.43	21.40	23.0	0.0

n41_FCC_HPUE_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				509202	518598	528000		
100	P1/2 BPSK	1	1	22.91	23.02	23.00	24.5	0.0
100	P1/2 BPSK	1	137	22.98	23.03	23.01		
100	P1/2 BPSK	1	271	22.94	23.06	22.99		
100	P1/2 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	P1/2 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	P1/2 BPSK	135	138	22.52	22.62	22.61	24.0	0.5
100	P1/2 BPSK	270	0	22.46	22.58	22.52		
100	QPSK	1	1	23.03	23.12	22.99	24.5	0.0
100	QPSK	1	137	22.98	23.11	23.06		
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.94	23.06	22.84		
100	QPSK	135	69	23.06	23.07	22.95	24.5	0.0
100	QPSK	135	138	22.91	23.02	22.90		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.0
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel								
Frequency (MHz)				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
50	P1/2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel								
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	P1/2 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	P1/2 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	P1/2 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	P1/2 BPSK	1	1	22.99	23.04	22.98	24.5	0.0
Channel								
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	P1/2 BPSK	1	1	23.00	22.92	23.05	24.5	0.0
Channel								
Frequency (MHz)				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	P1/2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	P1/2 BPSK	1	1	22.98	22.99	22.94	24.5	0.0



n41_FCC_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				2541.0	2592.99	2644.98		
100	P12 BPSK	1	1	16.53	16.53	16.50		
100	P12 BPSK	1	137	16.43	16.51	16.47	18.0	0.0
100	P12 BPSK	1	271	16.45	16.47	16.45		
100	P12 BPSK	135	0	16.43	16.48	16.50	18.0	0.0
100	P12 BPSK	135	69	16.46	16.50	16.48	18.0	0.0
100	P12 BPSK	135	138	16.46	16.50	16.42	18.0	0.0
100	P12 BPSK	270	0	16.48	16.49	16.42		
100	QPSK	1	1	16.05	16.03	16.56		
100	QPSK	1	137	16.50	16.59	16.51	18.0	0.0
100	QPSK	1	271	16.52	16.58	16.47		
100	QPSK	135	0	16.45	16.48	16.50		
100	QPSK	135	69	16.51	16.54	16.51	18.0	0.0
100	QPSK	135	138	16.48	16.47	16.47		
100	QPSK	270	0	16.49	16.51	16.49	18.0	0.0
100	16QAM	1	1	16.50	16.48	16.44	18.0	0.0
100	16QAM	1	1	16.45	16.48	16.46	18.0	0.0
100	256QAM	1	1	16.50	16.53	16.58	18.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.99	2744.98		
50	P12 BPSK	1	1	16.52	16.52	16.50	18.0	0.0
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2638102	2692.99	2744.98		
80	P12 BPSK	1	1	16.54	16.57	16.49	18.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631101	2692.99	2745		
70	P12 BPSK	1	1	16.54	16.51	16.53	18.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2624	2692.99	2744.98		
60	P12 BPSK	1	1	16.44	16.57	16.47	18.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611102	2692.99	2744.97		
50	P12 BPSK	1	1	16.43	16.54	16.49	18.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610101	2692.99	2745		
40	P12 BPSK	1	1	16.47	16.51	16.44	18.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2744.98		
30	P12 BPSK	1	1	16.52	16.52	16.47	18.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506102	2692.99	2744.99		
20	P12 BPSK	1	1	16.42	16.57	16.52	18.0	0.0

n41_FCC_HPUE_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				2641.0	2692.99	2744.98		
100	P12 BPSK	1	1	18.50	18.13	18.07		
100	P12 BPSK	1	137	18.09	18.13	18.04	19.5	0.0
100	P12 BPSK	1	271	18.06	18.12	18.05		
100	P12 BPSK	135	0	18.10	18.11	18.02	19.5	0.0
100	P12 BPSK	135	69	18.04	18.09	18.00	19.5	0.0
100	P12 BPSK	135	138	18.03	18.11	18.08	19.5	0.0
100	P12 BPSK	270	0	18.07	18.11	18.01		
100	QPSK	1	1	18.14	18.22	18.15		
100	QPSK	1	137	18.10	18.21	18.14	19.5	0.0
100	QPSK	1	271	18.08	18.10	18.13		
100	QPSK	135	0	18.06	18.11	18.03		
100	QPSK	135	69	18.12	18.15	18.09	19.5	0.0
100	QPSK	135	138	18.11	18.12	18.02		
100	QPSK	270	0	18.03	18.10	18.08	19.5	0.0
100	16QAM	1	1	18.05	18.14	18.05	19.5	0.0
100	16QAM	1	1	18.07	18.14	18.00	19.5	0.0
100	256QAM	1	1	18.10	18.08	18.05	19.5	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.99	2744.98		
50	P12 BPSK	1	1	18.05	18.13	18.05	19.5	0.0
Channel				507204	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2638102	2692.99	2744.98		
80	P12 BPSK	1	1	18.04	18.09	18.02	19.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631101	2692.99	2745		
70	P12 BPSK	1	1	18.05	18.09	18.03	19.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2624	2692.99	2744.98		
60	P12 BPSK	1	1	18.11	18.14	18.02	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611102	2692.99	2744.97		
50	P12 BPSK	1	1	18.08	18.09	18.07	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2610101	2692.99	2745		
40	P12 BPSK	1	1	18.03	18.14	18.05	19.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2744.98		
30	P12 BPSK	1	1	18.10	18.11	18.03	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506102	2692.99	2744.99		
20	P12 BPSK	1	1	18.08	18.09	18.05	19.5	0.0



UL MIMO Mode_State 7

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.15	14.30	14.14	15.5	0.0	
100	PI2 BPSK	1	137	14.18	14.22	14.25	15.5	0.0	
100	PI2 BPSK	1	271	14.13	14.33	14.23	15.5	0.0	
100	PI2 BPSK	135	0	14.20	14.26	14.24	15.5	0.0	
100	PI2 BPSK	135	69	14.15	14.24	14.24	15.5	0.0	
100	PI2 BPSK	135	135	14.15	14.32	14.14	15.5	0.0	
100	PI2 BPSK	270	0	14.09	14.21	14.21	15.5	0.0	
100	QPSK	1	1	14.33	14.42	14.32	15.5	0.0	
100	QPSK	1	137	14.18	14.25	14.27	15.5	0.0	
100	QPSK	1	271	14.25	14.35	14.30	15.5	0.0	
100	QPSK	135	0	14.16	14.27	14.19	15.5	0.0	
100	QPSK	135	69	14.22	14.39	14.27	15.5	0.0	
100	QPSK	135	135	14.25	14.35	14.17	15.5	0.0	
100	QPSK	270	0	14.13	14.28	14.14	15.5	0.0	
100	16QAM	1	1	14.24	14.33	14.17	15.5	0.0	
100	16QAM	1	1	14.10	14.26	14.22	15.5	0.0	
100	256QAM	1	1	14.17	14.29	14.11	15.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	14.27	14.33	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	14.24	14.31	14.29	15.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	14.24	14.37	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	14.20	14.36	14.24	15.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.25	14.41	14.21	15.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.30	14.30	14.30	15.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.23	14.25	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.25	14.35	14.20	15.5	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.40	15.54	15.52	17.0	0.0	
100	PI2 BPSK	1	137	15.41	15.51	15.52	17.0	0.0	
100	PI2 BPSK	1	271	15.38	15.53	15.48	17.0	0.0	
100	PI2 BPSK	135	0	15.37	15.45	15.43	17.0	0.0	
100	PI2 BPSK	135	69	15.40	15.45	15.47	17.0	0.0	
100	PI2 BPSK	135	135	15.47	15.53	15.47	17.0	0.0	
100	PI2 BPSK	270	0	15.45	15.56	15.50	17.0	0.0	
100	QPSK	1	1	15.57	15.62	15.53	17.0	0.0	
100	QPSK	1	137	15.47	15.61	15.48	17.0	0.0	
100	QPSK	1	271	15.49	15.55	15.56	17.0	0.0	
100	QPSK	135	0	15.42	15.55	15.41	17.0	0.0	
100	QPSK	135	69	15.30	15.37	15.45	17.0	0.0	
100	QPSK	135	135	15.41	15.45	15.47	17.0	0.0	
100	QPSK	270	0	15.41	15.52	15.43	17.0	0.0	
100	16QAM	1	1	15.47	15.55	15.47	17.0	0.0	
100	16QAM	1	1	15.39	15.57	15.51	17.0	0.0	
100	256QAM	1	1	15.44	15.54	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.46	15.53	15.41	17.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	15.49	15.55	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	15.51	15.52	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	15.47	15.60	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	15.49	15.60	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.51	15.53	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	15.52	15.56	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.45	15.51	15.47	17.0	0.0	



n41_FCC_Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PV2 BPSK	1	1	21.36	21.45	21.38				
100	PV2 BPSK	1	137	21.41	21.46	21.41				
100	PV2 BPSK	1	211	21.38	21.49	21.43	23.0	0.0		
100	PV2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5		
100	PV2 BPSK	135	69	21.37	21.42	21.34	23.0	0.0		
100	PV2 BPSK	135	198	20.83	20.91	20.89	22.5	0.5		
100	PV2 BPSK	270	0	20.79	20.88	20.81				
100	QPSK	1	1	21.44	21.51	21.38				
100	QPSK	1	137	21.38	21.50	21.37	23.0	0.0		
100	QPSK	1	211	21.43	21.45	21.36				
100	QPSK	135	0	21.22	21.34	21.33				
100	QPSK	135	69	21.44	21.46	21.33	23.0	0.0		
100	QPSK	135	198	21.40	21.43	21.30				
100	QPSK	270	0	20.36	20.38	20.24	22.0	1.0		
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0		
100	16QAM	1	1	18.82	18.86	18.72	20.5	2.5		
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
70	PV2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0		
Channel										
Frequency (MHz)										
60	PV2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	21.37	21.38	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	21.59	21.44	21.27	23.0	0.0		
Channel										
Frequency (MHz)										
30	PV2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	21.56	21.37	21.31	23.0	0.0		

n41_FCC_HPUE_Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PV2 BPSK	1	1	22.98	23.05	22.93				
100	PV2 BPSK	1	137	22.89	23.02	22.94	24.5	0.0		
100	PV2 BPSK	1	211	22.86	22.98	22.89				
100	PV2 BPSK	135	0	22.26	22.35	22.25	24.0	0.5		
100	PV2 BPSK	135	69	22.87	22.99	22.88	24.5	0.0		
100	PV2 BPSK	135	198	22.44	22.47	22.41	24.0	0.5		
100	PV2 BPSK	270	0	22.48	22.51	22.41				
100	QPSK	1	1	22.96	23.08	22.98				
100	QPSK	1	137	22.85	23.06	22.97	24.5	0.0		
100	QPSK	1	211	23.03	23.04	22.98				
100	QPSK	135	0	22.86	22.91	22.81				
100	QPSK	135	69	22.82	22.95	22.88	24.5	0.0		
100	QPSK	135	198	22.89	22.99	22.94				
100	QPSK	270	0	21.80	21.96	21.86	23.5	1.0		
100	16QAM	1	1	22.04	22.08	22.05	23.5	1.0		
100	16QAM	1	1	20.43	20.49	20.37	22.0	2.5		
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0		
Channel										
Frequency (MHz)										
70	PV2 BPSK	1	1	22.98	22.99	22.92	24.5	0.0		
Channel										
Frequency (MHz)										
60	PV2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0		
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	22.97	23.02	22.95	24.5	0.0		
Channel										
Frequency (MHz)										
30	PV2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0		
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	22.90	23.02	22.91	24.5	0.0		



n41_FCC_AnT1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.04	2592.89	2640		
100	PV2 BPSK	1	1	21.46	21.47	21.44		
100	PV2 BPSK	1	137	21.44	21.51	21.49		0.0
100	PV2 BPSK	1	271	21.49	21.58	21.49		
100	PV2 BPSK	135	0	20.89	20.92	20.92	22.5	0.5
100	PV2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0
100	PV2 BPSK	135	198	20.90	21.01	20.88	22.5	0.5
100	PV2 BPSK	270	0	20.88	20.93	20.88		
100	QPSK	1	1	21.47	21.65	21.55		
100	QPSK	1	137	21.43	21.54	21.50	23.0	0.0
100	QPSK	1	271	21.59	21.51	21.42		
100	QPSK	135	0	21.33	21.46	21.44		
100	QPSK	135	69	21.31	21.63	21.49	23.0	0.0
100	QPSK	135	198	21.42	21.50	21.41		
100	QPSK	270	0	20.37	20.38	20.37	22.0	1.0
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0
100	16QAM	1	1	18.60	18.94	18.90	20.5	2.5
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.86	2644.08		
50	PV2 BPSK	1	1	21.46	21.47	21.37	23.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2692.02	2692.89	2693.99		
50	PV2 BPSK	1	1	21.43	21.44	21.39	23.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2742.04	2692.89	2645		
70	PV2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2792	2692.89	2648.08		
60	PV2 BPSK	1	1	21.41	21.43	21.37	23.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2842.02	2692.89	2644.99		
50	PV2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2891.01	2692.89	2670		
40	PV2 BPSK	1	1	21.48	21.43	21.36	23.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2941	2692.89	2644.98		
30	PV2 BPSK	1	1	21.43	21.42	21.39	23.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2991.02	2692.89	2671.97		
20	PV2 BPSK	1	1	21.43	21.43	21.40	23.0	0.0

n41_FCC_HPUE_AnT1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.04	2592.89	2640		
100	PV2 BPSK	1	1	22.91	23.02	23.00		
100	PV2 BPSK	1	137	22.98	23.03	23.01	24.5	0.0
100	PV2 BPSK	1	271	22.94	23.08	22.99		
100	PV2 BPSK	135	0	22.46	22.49	22.38	24.0	0.5
100	PV2 BPSK	135	69	23.04	23.09	23.08	24.5	0.0
100	PV2 BPSK	135	198	22.52	22.62	22.61	24.0	0.5
100	PV2 BPSK	270	0	22.46	22.58	22.52		
100	QPSK	1	1	23.03	23.12	22.99		
100	QPSK	1	137	22.88	23.11	23.06	24.5	0.0
100	QPSK	1	271	23.05	23.08	23.06		
100	QPSK	135	0	22.94	22.96	22.84		
100	QPSK	135	69	23.06	23.07	22.95	24.5	0.0
100	QPSK	135	198	22.91	23.02	22.99		
100	QPSK	270	0	22.00	22.11	22.02	23.5	1.0
100	16QAM	1	1	22.24	22.25	22.12	23.5	1.0
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5
Channel				508200	518598	529996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2692.86	2644.08		
50	PV2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2692.02	2692.89	2693.99		
50	PV2 BPSK	1	1	22.96	23.02	23.01	24.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2742.04	2692.89	2645		
70	PV2 BPSK	1	1	23.02	23.04	22.98	24.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2792	2692.89	2648.08		
60	PV2 BPSK	1	1	22.96	23.07	22.98	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2842.02	2692.89	2644.99		
50	PV2 BPSK	1	1	22.96	23.04	22.98	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2891.01	2692.89	2670		
40	PV2 BPSK	1	1	23.00	22.99	23.05	24.5	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2941	2692.89	2644.98		
30	PV2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2991.02	2692.89	2671.97		
20	PV2 BPSK	1	1	22.98	22.99	23.04	24.5	0.0



n41_FCC_Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PV2 BPSK	1	1	14.42	14.48	14.41				
100	PV2 BPSK	1	137	14.37	14.45	14.40	16.0	0.0		
100	PV2 BPSK	1	211	14.38	14.38	14.42				
100	PV2 BPSK	135	0	14.40	14.30	14.40	16.0	0.0		
100	PV2 BPSK	135	69	14.44	14.39	14.37	16.0	0.0		
100	PV2 BPSK	135	198	14.41	14.46	14.39	16.0	0.0		
100	PV2 BPSK	270	0	14.41	14.41	14.36				
100	QPSK	1	1	14.48	14.60	14.49				
100	QPSK	1	137	14.43	14.52	14.48	16.0	0.0		
100	QPSK	1	211	14.58	14.65	14.40				
100	QPSK	135	0	14.36	14.48	14.42				
100	QPSK	135	69	14.46	14.45	14.48	16.0	0.0		
100	QPSK	135	198	14.38	14.39	14.45				
100	QPSK	270	0	14.44	14.46	14.45	16.0	0.0		
100	16QAM	1	1	14.42	14.35	14.36	16.0	0.0		
100	16QAM	1	1	14.33	14.43	14.41	16.0	0.0		
100	256QAM	1	1	14.40	14.52	14.53	16.0	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	14.45	14.50	14.48	16.0	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	14.46	14.51	14.39	16.0	0.0		
Channel										
Frequency (MHz)										
70	PV2 BPSK	1	1	14.37	14.49	14.47	16.0	0.0		
Channel										
Frequency (MHz)										
60	PV2 BPSK	1	1	14.36	14.53	14.45	16.0	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	14.40	14.53	14.40	16.0	0.0		
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	14.47	14.54	14.42	16.0	0.0		
Channel										
Frequency (MHz)										
30	PV2 BPSK	1	1	14.58	14.59	14.47	16.0	0.0		
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	14.45	14.49	14.40	16.0	0.0		

n41_FCC_HPUE_Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PV2 BPSK	1	1	16.06	16.03	15.97				
100	PV2 BPSK	1	137	16.08	16.03	15.93	17.5	0.0		
100	PV2 BPSK	1	211	16.01	16.08	16.05				
100	PV2 BPSK	135	0	16.06	16.00	16.01	17.5	0.0		
100	PV2 BPSK	135	69	15.94	15.98	15.88	17.5	0.0		
100	PV2 BPSK	135	198	16.05	16.04	15.96	17.5	0.0		
100	PV2 BPSK	270	0	16.05	16.03	15.98				
100	QPSK	1	1	16.06	16.19	16.11				
100	QPSK	1	137	16.08	16.15	16.08	17.5	0.0		
100	QPSK	1	211	16.04	16.07	16.07				
100	QPSK	135	0	15.99	16.01	15.97				
100	QPSK	135	69	16.03	16.08	15.97	17.5	0.0		
100	QPSK	135	198	16.05	16.01	15.96				
100	QPSK	270	0	15.94	16.08	16.07	17.5	0.0		
100	16QAM	1	1	15.97	16.08	16.01	17.5	0.0		
100	16QAM	1	1	16.02	16.06	15.92	17.5	0.0		
100	256QAM	1	1	16.07	16.01	16.03	17.5	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	15.94	16.14	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	16.01	16.15	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
70	PV2 BPSK	1	1	16.02	16.13	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
60	PV2 BPSK	1	1	15.96	16.07	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	16.03	16.13	16.10	17.5	0.0		
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	15.94	16.17	16.05	17.5	0.0		
Channel										
Frequency (MHz)										
30	PV2 BPSK	1	1	15.95	16.14	15.99	17.5	0.0		
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	16.04	16.08	16.05	17.5	0.0		



UL MIMO Mode_State 10&9

n41_FCC_Ant7									
BW [MHz]	Modulation	RB 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	21.36	21.45	21.38			
100	PI2 BPSK	1	137	21.41	21.46	21.41	23.0	0.0	
100	PI2 BPSK	1	271	21.36	21.45	21.43			
100	PI2 BPSK	135	0	20.84	20.85	20.77	22.5	0.5	
100	PI2 BPSK	135	66	21.37	21.42	21.34	23.0	0.0	
100	PI2 BPSK	135	138	20.83	20.91	20.89	22.5	0.5	
100	PI2 BPSK	270	0	20.79	20.88	20.81			
100	QPSK	1	1	21.44	21.51	21.38	23.0	0.0	
100	QPSK	1	137	21.38	21.50	21.37			
100	QPSK	1	271	21.43	21.45	21.30			
100	QPSK	135	0	21.22	21.34	21.33			
100	QPSK	135	66	21.44	21.46	21.33	23.0	0.0	
100	QPSK	135	138	21.40	21.43	21.30			
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0	
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0	
100	64QAM	1	1	18.82	18.86	18.72	20.5	2.5	
100	256QAM	1	1	16.77	16.81	16.78	18.5	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	21.36	21.42	21.27	23.0	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	21.40	21.42	21.30	23.0	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	21.37	21.36	21.31	23.0	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	21.38	21.37	21.31	23.0	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
100	PI2 BPSK	1	1	22.98	23.05	22.93			
100	PI2 BPSK	1	137	22.89	23.02	22.94	24.5	0.0	
100	PI2 BPSK	1	271	22.96	22.96	22.89			
100	PI2 BPSK	135	0	22.26	22.39	22.29	24.0	0.5	
100	PI2 BPSK	135	66	22.87	22.99	22.86	24.5	0.0	
100	PI2 BPSK	135	138	22.44	22.47	22.41	24.0	0.5	
100	PI2 BPSK	270	0	22.48	22.51	22.41			
100	QPSK	1	1	22.96	23.08	22.88	24.5	0.0	
100	QPSK	1	137	22.95	23.06	22.87			
100	QPSK	1	271	23.03	23.04	22.90			
100	QPSK	135	0	22.88	22.91	22.81			
100	QPSK	135	66	22.82	22.95	22.88	24.5	0.0	
100	QPSK	135	138	22.89	22.99	22.84			
100	QPSK	270	0	21.80	21.96	21.86	23.5	1.0	
100	16QAM	1	1	22.04	22.08	22.08	23.5	1.0	
100	64QAM	1	1	20.43	20.48	20.37	22.0	2.5	
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5	
Channel Frequency (MHz)									
90	PI2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0	
Channel Frequency (MHz)									
80	PI2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0	
Channel Frequency (MHz)									
70	PI2 BPSK	1	1	22.88	22.99	22.92	24.5	0.0	
Channel Frequency (MHz)									
60	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
50	PI2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0	
Channel Frequency (MHz)									
40	PI2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0	
Channel Frequency (MHz)									
30	PI2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0	
Channel Frequency (MHz)									
20	PI2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0	



n41_FCC_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	21.36	21.45	21.38	23.0	0.0
100	Pi2 BPSK	1	137	21.41	21.46	21.41		
100	Pi2 BPSK	1	271	21.35	21.43	21.43		
100	Pi2 BPSK	135	0	20.84	20.85	20.77		
100	Pi2 BPSK	135	69	21.37	21.42	21.34	23.0	0.0
100	Pi2 BPSK	135	138	20.83	20.83	20.82	22.5	0.5
100	Pi2 BPSK	270	0	20.79	20.85	20.81		
100	QPSK	1	11	21.44	21.51	21.38	23.0	0.0
100	QPSK	1	137	21.38	21.50	21.37		
100	QPSK	1	271	21.43	21.45	21.36	23.0	0.0
100	QPSK	135	0	21.22	21.34	21.33		
100	QPSK	135	69	21.44	21.46	21.33		
100	QPSK	135	138	21.40	21.43	21.30		
100	QPSK	270	0	20.35	20.36	20.24	22.0	1.0
100	16QAM	1	1	20.13	20.24	20.14	22.0	1.0
100	16QAM	1	1	18.82	18.85	18.72		
100	256QAM	1	1	18.77	18.81	18.78	20.5	2.5
100	256QAM	1	1	18.77	18.81	18.78	18.5	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	21.35	21.42	21.27	23.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.40	21.42	21.35	23.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	21.42	21.44	21.32	23.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	21.42	21.44	21.30	23.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	21.37	21.36	21.31	23.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	21.39	21.44	21.27	23.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	21.37	21.37	21.31	23.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	21.36	21.37	21.31	23.0	0.0
Channel								
Frequency (MHz)								

n41_FCC_HPUE_Ant8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.88	23.05	22.93	24.5	0.0
100	Pi2 BPSK	1	137	22.88	23.02	22.94		
100	Pi2 BPSK	1	271	22.86	22.98	22.85		
100	Pi2 BPSK	135	0	22.26	22.35	22.29		
100	Pi2 BPSK	135	69	22.87	22.99	22.86	24.0	0.5
100	Pi2 BPSK	135	138	22.44	22.47	22.41		
100	Pi2 BPSK	270	0	22.48	22.51	22.41	24.5	0.0
100	QPSK	1	11	22.96	23.08	22.98		
100	QPSK	1	137	22.96	23.06	22.97		
100	QPSK	1	271	23.03	23.04	22.98		
100	QPSK	135	0	22.86	22.91	22.81	24.5	0.0
100	QPSK	135	69	22.82	22.95	22.88		
100	QPSK	135	138	22.89	22.99	22.94	23.5	1.0
100	QPSK	270	0	21.90	21.96	21.86		
100	16QAM	1	1	22.84	23.08	23.05	22.0	2.5
100	16QAM	1	1	20.43	20.45	20.37		
100	256QAM	1	1	18.18	18.32	18.29	20.0	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	22.93	22.98	22.88	24.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	22.93	23.02	22.91	24.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	22.88	22.99	22.92	24.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	22.92	23.04	22.90	24.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	22.87	23.02	22.95	24.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	22.94	22.99	22.90	24.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	22.90	23.05	22.91	24.5	0.0
Channel								
Frequency (MHz)								



n41_FCC_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq				
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0		
100	Pi2 BPSK	1	137	21.44	21.51	21.49				
100	Pi2 BPSK	1	271	21.49	21.50	21.48				
100	Pi2 BPSK	135	0	20.89	20.92	20.82				
100	Pi2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0		
100	Pi2 BPSK	135	138	20.90	21.03	20.88	22.5	0.5		
100	Pi2 BPSK	270	0	20.88	20.93	20.88				
100	QPSK	1	11	21.60	21.65	21.55	23.0	0.0		
100	QPSK	1	137	21.43	21.54	21.50				
100	QPSK	1	271	21.49	21.51	21.42	23.0	0.0		
100	QPSK	135	0	21.53	21.46	21.44				
100	QPSK	135	69	21.51	21.63	21.49				
100	QPSK	135	138	21.42	21.50	21.41				
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0		
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0		
100	16QAM	1	1	18.80	18.94	18.90	20.5	2.5		
100	256QAM	1	1	16.72	16.87	16.76	18.5	4.5		
Channel										
Frequency (MHz)										
90	Pi2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0		
Channel										
Frequency (MHz)										
80	Pi2 BPSK	1	1	21.43	21.44	21.39			23.0	0.0
Channel										
Frequency (MHz)										
70	Pi2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
60	Pi2 BPSK	1	1	21.41	21.43	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
50	Pi2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0		
Channel										
Frequency (MHz)										
40	Pi2 BPSK	1	1	21.48	21.43	21.36	23.0	0.0		
Channel										
Frequency (MHz)										
30	Pi2 BPSK	1	1	21.43	21.42	21.39	23.0	0.0		
Channel										
Frequency (MHz)										
20	Pi2 BPSK	1	1	21.43	21.43	21.40	23.0	0.0		
Channel										
Frequency (MHz)										

n41_FCC_HPUE_Ant1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch / Freq	Middle Ch / Freq	High Ch / Freq				
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	22.81	23.02	23.00	24.5	0.0		
100	Pi2 BPSK	1	137	22.88	23.03	23.01				
100	Pi2 BPSK	1	271	22.94	23.06	22.96				
100	Pi2 BPSK	135	0	22.46	22.49	22.38				
100	Pi2 BPSK	135	69	23.04	23.09	23.08	24.5	0.0		
100	Pi2 BPSK	135	138	22.52	22.62	22.41	24.0	0.5		
100	Pi2 BPSK	270	0	22.46	22.38	22.32				
100	QPSK	1	11	23.03	23.12	22.99	24.5	0.0		
100	QPSK	1	137	22.88	23.11	23.05				
100	QPSK	1	271	23.05	23.08	23.06	24.5	0.0		
100	QPSK	135	0	22.84	22.86	22.84				
100	QPSK	135	69	23.06	23.07	22.95				
100	QPSK	135	138	22.81	23.02	22.99				
100	QPSK	270	0	22.60	22.11	22.02	23.5	1.0		
100	16QAM	1	1	22.24	22.28	22.12	23.5	1.0		
100	16QAM	1	1	20.32	20.41	20.32	22.0	2.5		
100	256QAM	1	1	18.45	18.47	18.38	20.0	4.5		
Channel										
Frequency (MHz)										
90	Pi2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0		
Channel										
Frequency (MHz)										
80	Pi2 BPSK	1	1	22.96	23.02	23.01			24.5	0.0
Channel										
Frequency (MHz)										
70	Pi2 BPSK	1	1	23.02	23.02	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
60	Pi2 BPSK	1	1	22.96	23.07	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
50	Pi2 BPSK	1	1	22.96	23.04	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
40	Pi2 BPSK	1	1	23.00	22.99	23.05	24.5	0.0		
Channel										
Frequency (MHz)										
30	Pi2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0		
Channel										
Frequency (MHz)										
20	Pi2 BPSK	1	1	22.98	22.99	23.04	24.5	0.0		
Channel										
Frequency (MHz)										



n41_FCC_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq				
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	21.46	21.47	21.44	23.0	0.0		
100	Pi2 BPSK	1	137	21.44	21.51	21.49				
100	Pi2 BPSK	1	271	21.49	21.50	21.48				
100	Pi2 BPSK	135	0	20.89	20.92	20.82				
100	Pi2 BPSK	135	69	21.44	21.46	21.42	23.0	0.0		
100	Pi2 BPSK	135	138	20.90	21.01	20.88	22.5	0.5		
100	Pi2 BPSK	270	0	20.88	20.93	20.88				
100	QPSK	1	11	21.47	21.65	21.55	23.0	0.0		
100	QPSK	1	137	21.43	21.54	21.50				
100	QPSK	1	271	21.49	21.51	21.42	23.0	0.0		
100	QPSK	135	0	21.53	21.46	21.44				
100	QPSK	135	69	21.51	21.63	21.49				
100	QPSK	135	138	21.42	21.50	21.41				
100	QPSK	270	0	20.37	20.39	20.37	22.0	1.0		
100	16QAM	1	1	20.29	20.36	20.35	22.0	1.0		
100	16QAM	1	1	18.80	18.94	18.90				
100	256QAM	1	1	18.72	18.87	18.76	18.5	4.5		
Channel										
Frequency (MHz)										
90	Pi2 BPSK	1	1	21.46	21.47	21.47	23.0	0.0		
Channel										
Frequency (MHz)										
80	Pi2 BPSK	1	1	21.43	21.44	21.39				
Channel										
Frequency (MHz)										
70	Pi2 BPSK	1	1	21.42	21.43	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
60	Pi2 BPSK	1	1	21.41	21.43	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
50	Pi2 BPSK	1	1	21.40	21.43	21.41	23.0	0.0		
Channel										
Frequency (MHz)										
40	Pi2 BPSK	1	1	21.48	21.43	21.36	23.0	0.0		
Channel										
Frequency (MHz)										
30	Pi2 BPSK	1	1	21.43	21.42	21.39	23.0	0.0		
Channel										
Frequency (MHz)										
20	Pi2 BPSK	1	1	21.43	21.43	21.40	23.0	0.0		
Channel										
Frequency (MHz)										

n41_FCC_HPUE_Ant2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq				
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	22.81	23.02	23.00	24.5	0.0		
100	Pi2 BPSK	1	137	22.88	23.03	23.01				
100	Pi2 BPSK	1	271	22.94	23.06	22.96				
100	Pi2 BPSK	135	0	22.46	22.49	22.38				
100	Pi2 BPSK	135	69	23.04	23.09	23.08	24.0	0.5		
100	Pi2 BPSK	135	138	22.52	22.62	22.41				
100	Pi2 BPSK	270	0	22.46	22.38	22.52	24.0	0.5		
100	QPSK	1	11	23.03	23.12	22.99				
100	QPSK	1	137	22.88	23.11	23.05	24.5	0.0		
100	QPSK	1	271	23.05	23.08	23.08				
100	QPSK	135	0	22.84	22.86	22.84	24.5	0.0		
100	QPSK	135	69	23.06	23.07	22.95				
100	QPSK	135	138	22.81	23.02	22.99				
100	QPSK	270	0	22.00	22.11	22.02				
100	16QAM	1	1	22.24	22.28	22.12	23.5	1.0		
100	16QAM	1	1	20.32	20.41	20.32				
100	256QAM	1	1	18.45	18.47	18.38	18.5	4.5		
Channel										
Frequency (MHz)										
90	Pi2 BPSK	1	1	22.96	23.00	23.05	24.5	0.0		
Channel										
Frequency (MHz)										
80	Pi2 BPSK	1	1	22.96	23.02	23.01				
Channel										
Frequency (MHz)										
70	Pi2 BPSK	1	1	23.02	23.02	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
60	Pi2 BPSK	1	1	22.96	23.07	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
50	Pi2 BPSK	1	1	22.96	23.04	22.98	24.5	0.0		
Channel										
Frequency (MHz)										
40	Pi2 BPSK	1	1	23.00	22.99	23.05	24.5	0.0		
Channel										
Frequency (MHz)										
30	Pi2 BPSK	1	1	23.00	23.00	23.04	24.5	0.0		
Channel										
Frequency (MHz)										
20	Pi2 BPSK	1	1	22.98	22.99	23.04	24.5	0.0		
Channel										
Frequency (MHz)										



UL MIMO Mode_State 8

n41_FCC_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPP (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.15	14.30	14.14			
100	PI2 BPSK	1	137	14.18	14.32	14.25			
100	PI2 BPSK	1	271	14.13	14.33	14.23	15.5	0.0	
100	PI2 BPSK	135	0	14.20	14.26	14.24	15.5	0.0	
100	PI2 BPSK	135	65	14.15	14.24	14.24	15.5	0.0	
100	PI2 BPSK	135	138	14.15	14.32	14.14	15.5	0.0	
100	PI2 BPSK	270	0	14.09	14.21	14.21	15.5	0.0	
100	QPSK	1	1	14.33	14.42	14.32			
100	QPSK	1	137	14.18	14.25	14.27	15.5	0.0	
100	QPSK	1	271	14.26	14.36	14.30			
100	QPSK	135	0	14.16	14.27	14.19			
100	QPSK	135	65	14.22	14.38	14.27	15.5	0.0	
100	QPSK	135	138	14.25	14.36	14.37			
100	QPSK	270	0	14.13	14.28	14.14	15.5	0.0	
100	64QAM	1	1	14.24	14.33	14.17	15.5	0.0	
100	64QAM	1	1	14.10	14.26	14.22	15.5	0.0	
100	256QAM	1	1	14.17	14.29	14.11	15.5	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	14.27	14.33	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	14.24	14.31	14.29	15.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	14.24	14.37	14.26	15.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	14.29	14.36	14.24	15.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.25	14.41	14.21	15.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.30	14.30	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.29	14.39	14.27	15.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.25	14.38	14.20	15.5	0.0	

n41_FCC_HPUE_Ant7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPP (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.40	15.54	15.52			
100	PI2 BPSK	1	137	15.41	15.51	15.52			
100	PI2 BPSK	1	271	15.38	15.53	15.45	17.0	0.0	
100	PI2 BPSK	135	0	15.37	15.45	15.43	17.0	0.0	
100	PI2 BPSK	135	65	15.40	15.45	15.47	17.0	0.0	
100	PI2 BPSK	135	138	15.47	15.53	15.47	17.0	0.0	
100	PI2 BPSK	270	0	15.46	15.56	15.40	17.0	0.0	
100	QPSK	1	1	15.57	15.62	15.53			
100	QPSK	1	137	15.47	15.61	15.48	17.0	0.0	
100	QPSK	1	271	15.49	15.55	15.46			
100	QPSK	135	0	15.42	15.59	15.41			
100	QPSK	135	65	15.50	15.57	15.45	17.0	0.0	
100	QPSK	135	138	15.41	15.45	15.47			
100	QPSK	270	0	15.41	15.52	15.43	17.0	0.0	
100	64QAM	1	1	15.47	15.55	15.47	17.0	0.0	
100	64QAM	1	1	15.39	15.57	15.51	17.0	0.0	
100	256QAM	1	1	15.44	15.54	15.43	17.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.46	15.53	15.41	17.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	15.49	15.55	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	15.51	15.52	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	15.47	15.60	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	15.49	15.60	15.45	17.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.51	15.53	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	15.55	15.56	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.45	15.51	15.47	17.0	0.0	



n41_FCC_Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up Int (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PVZ BPSK	1	1	21.36	21.45	21.38	23.0	0.0		
100	PVZ BPSK	1	137	21.41	21.48	21.41				
100	PVZ BPSK	1	271	21.36	21.45	21.43				
100	PVZ BPSK	135	0	20.84	20.85	20.77	22.5	0.5		
100	PVZ BPSK	135	69	21.37	21.42	21.34				
100	PVZ BPSK	135	138	20.83	20.91	20.89				
100	PVZ BPSK	270	0	20.79	20.89	20.81	22.5	0.5		
100	QPSK	1	1	21.44	21.51	21.38				
100	QPSK	1	137	21.38	21.50	21.37				
100	QPSK	1	271	21.43	21.45	21.36	23.0	0.0		
100	QPSK	135	0	21.42	21.34	21.43				
100	QPSK	135	69	21.44	21.46	21.33				
100	QPSK	135	138	21.40	21.43	21.30	22.0	1.0		
100	QPSK	270	0	20.36	20.24	20.14				
100	16QAM	1	1	20.13	20.24	20.14				
100	16QAM	1	1	18.82	18.86	18.72	20.5	2.5		
100	256QAM	1	1	16.77	16.81	16.76				
100	256QAM	1	1	16.77	16.81	16.76				
Channel										
Frequency (MHz)										
90	PVZ BPSK	1	1	25.41	25.92.99	25.44.98	23.0	0.0		
Channel										
Frequency (MHz)										
80	PVZ BPSK	1	1	21.40	21.42	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
70	PVZ BPSK	1	1	25.31.01	25.92.99	25.55	23.0	0.0		
Channel										
Frequency (MHz)										
60	PVZ BPSK	1	1	21.42	21.44	21.32	23.0	0.0		
Channel										
Frequency (MHz)										
50	PVZ BPSK	1	1	21.37	21.36	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
40	PVZ BPSK	1	1	21.39	21.44	21.27	23.0	0.0		
Channel										
Frequency (MHz)										
30	PVZ BPSK	1	1	21.37	21.37	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
20	PVZ BPSK	1	1	21.36	21.37	21.31	23.0	0.0		

n41_FCC_HPUE_Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up Int (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PVZ BPSK	1	1	22.98	23.05	22.93	24.5	0.0		
100	PVZ BPSK	1	137	22.89	23.02	22.94				
100	PVZ BPSK	1	271	22.98	22.98	22.89				
100	PVZ BPSK	135	0	22.26	22.39	22.29	24.0	0.5		
100	PVZ BPSK	135	69	22.87	22.99	22.86				
100	PVZ BPSK	135	138	22.44	22.47	22.41				
100	PVZ BPSK	270	0	22.48	22.51	22.41	24.0	0.5		
100	QPSK	1	1	22.98	23.05	22.98				
100	QPSK	1	137	22.95	23.05	22.97				
100	QPSK	1	271	23.03	23.04	22.98	24.5	0.0		
100	QPSK	135	0	22.86	22.91	22.81				
100	QPSK	135	69	22.82	22.95	22.88				
100	QPSK	135	138	22.89	22.99	22.94	23.5	1.0		
100	QPSK	270	0	21.80	21.86	21.86				
100	16QAM	1	1	22.04	22.09	22.05				
100	16QAM	1	1	20.43	20.49	20.37	22.0	2.5		
100	256QAM	1	1	18.18	18.32	18.29				
100	256QAM	1	1	18.18	18.32	18.29				
Channel										
Frequency (MHz)										
90	PVZ BPSK	1	1	25.41	25.92.99	25.44.98	23.0	0.0		
Channel										
Frequency (MHz)										
80	PVZ BPSK	1	1	21.40	21.42	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
70	PVZ BPSK	1	1	25.31.01	25.92.99	25.55	23.0	0.0		
Channel										
Frequency (MHz)										
60	PVZ BPSK	1	1	21.42	21.44	21.32	23.0	0.0		
Channel										
Frequency (MHz)										
50	PVZ BPSK	1	1	21.37	21.36	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
40	PVZ BPSK	1	1	21.39	21.44	21.27	23.0	0.0		
Channel										
Frequency (MHz)										
30	PVZ BPSK	1	1	21.37	21.37	21.31	23.0	0.0		
Channel										
Frequency (MHz)										
20	PVZ BPSK	1	1	21.36	21.37	21.31	23.0	0.0		



n41_FCC_Ant1

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)				2592.00	2592.00	2592.00		
100	PVZ BPSK	1	1	19.07	19.09	19.06	20.5	0.0
100	PVZ BPSK	1	137	19.02	19.06	19.00		
100	PVZ BPSK	1	271	19.08	19.07	19.08		
100	PVZ BPSK	135	0	19.10	19.12	19.08	20.5	0.0
100	PVZ BPSK	135	69	19.04	19.10	19.00	20.5	0.0
100	PVZ BPSK	135	138	19.06	19.04	19.04	20.5	0.0
100	PVZ BPSK	270	0	19.10	19.11	19.00	20.5	0.0
100	QPSK	1	1	19.18	19.21	19.12		
100	QPSK	1	137	19.13	19.15	19.08	20.5	0.0
100	QPSK	1	271	19.17	19.13	19.11		
100	QPSK	135	0	19.03	19.10	19.09		
100	QPSK	135	69	19.11	19.13	19.07	20.5	0.0
100	QPSK	135	138	19.09	19.05	19.02		
100	QPSK	270	0	19.08	19.11	19.00	20.5	0.0
100	84QAM	1	1	19.04	19.06	19.00	20.5	0.0
100	84QAM	1	1	19.03	19.09	19.01	20.5	0.0
100	256QAM	1	1	17.04	17.07	17.04	13.5	2.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
90	PVZ BPSK	1	1	19.06	19.11	19.08	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
80	PVZ BPSK	1	1	19.07	19.11	19.08	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
70	PVZ BPSK	1	1	19.02	19.06	19.01	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
60	PVZ BPSK	1	1	19.02	19.08	19.02	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
50	PVZ BPSK	1	1	19.02	19.12	19.01	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
40	PVZ BPSK	1	1	19.06	19.05	19.04	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
30	PVZ BPSK	1	1	19.09	19.12	19.00	20.5	0.0
Channel								
Frequency (MHz)				2592.00	2592.00	2592.00		
20	PVZ BPSK	1	1	19.03	19.11	19.05	20.5	0.0

n41_FCC_HPUE_Ant1

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)				2054.00	2054.00	2054.00		
100	PVZ BPSK	1	1	20.61	20.57	20.50	22.0	0.0
100	PVZ BPSK	1	137	20.54	20.58	20.52		
100	PVZ BPSK	1	271	20.56	20.55	20.50		
100	PVZ BPSK	135	0	20.59	20.59	20.52	22.0	0.0
100	PVZ BPSK	135	69	20.54	20.57	20.49	22.0	0.0
100	PVZ BPSK	135	138	20.57	20.57	20.51	22.0	0.0
100	PVZ BPSK	270	0	20.53	20.63	20.57		
100	QPSK	1	1	20.68	20.71	20.66		
100	QPSK	1	137	20.62	20.68	20.58	22.0	0.0
100	QPSK	1	271	20.65	20.62	20.59		
100	QPSK	135	0	20.54	20.59	20.57		
100	QPSK	135	69	20.62	20.65	20.58	22.0	0.0
100	QPSK	135	138	20.57	20.61	20.49		
100	QPSK	270	0	20.57	20.57	20.54	22.0	0.0
100	84QAM	1	1	20.61	20.59	20.57	22.0	0.0
100	84QAM	1	1	20.56	20.60	20.56	22.0	0.0
100	256QAM	1	1	18.60	18.67	18.53	20.0	2.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
90	PVZ BPSK	1	1	20.54	20.56	20.50	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
80	PVZ BPSK	1	1	20.58	20.62	20.49	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
70	PVZ BPSK	1	1	20.56	20.57	20.56	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
60	PVZ BPSK	1	1	20.58	20.59	20.56	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
50	PVZ BPSK	1	1	20.54	20.57	20.54	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
40	PVZ BPSK	1	1	20.60	20.60	20.55	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
30	PVZ BPSK	1	1	20.54	20.61	20.51	22.0	0.0
Channel								
Frequency (MHz)				2054.00	2054.00	2054.00		
20	PVZ BPSK	1	1	20.56	20.62	20.54	22.0	0.0



n41_FCC_Ant2										
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)										
100	PV2 BPSK	1	1	14.42	14.48	14.41	16.0	0.0		
100	PV2 BPSK	1	137	14.27	14.46	14.40				
100	PV2 BPSK	1	271	14.35	14.35	14.42				
100	PV2 BPSK	135	0	14.40	14.36	14.40	16.0	0.0		
100	PV2 BPSK	135	69	14.44	14.38	14.37				
100	PV2 BPSK	135	138	14.41	14.46	14.39				
100	PV2 BPSK	270	0	14.41	14.41	14.36	16.0	0.0		
100	QPSK	1	1	14.48	14.69	14.49				
100	QPSK	1	137	14.43	14.52	14.48				
100	QPSK	1	271	14.48	14.46	14.40	16.0	0.0		
100	QPSK	135	0	14.36	14.48	14.42				
100	QPSK	135	69	14.46	14.45	14.48				
100	QPSK	135	138	14.38	14.39	14.46	16.0	0.0		
100	QPSK	270	0	14.44	14.46	14.45				
100	16QAM	1	1	14.42	14.36	14.36				
100	16QAM	1	1	14.33	14.43	14.41	16.0	0.0		
100	256QAM	1	1	14.40	14.42	14.53				
100	256QAM	1	1	14.40	14.42	14.53				
Channel										
Frequency (MHz)										
90	PV2 BPSK	1	1	25.41	25.92	25.44	16.0	0.0		
90	PV2 BPSK	1	1	14.45	14.55	14.48				
90	PV2 BPSK	1	1	232.01	231.98	231.99				
Channel										
Frequency (MHz)										
80	PV2 BPSK	1	1	14.46	14.51	14.39	16.0	0.0		
80	PV2 BPSK	1	1	2536.02	2590.99	2549.99				
80	PV2 BPSK	1	1	14.46	14.51	14.39				
Channel										
Frequency (MHz)										
70	PV2 BPSK	1	1	2531.01	2592.99	2555	16.0	0.0		
70	PV2 BPSK	1	1	14.37	14.49	14.47				
70	PV2 BPSK	1	1	2531.01	2592.99	2555				
Channel										
Frequency (MHz)										
60	PV2 BPSK	1	1	14.36	14.53	14.45	16.0	0.0		
60	PV2 BPSK	1	1	2526	2592.99	2559.98				
60	PV2 BPSK	1	1	14.36	14.53	14.45				
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	14.40	14.53	14.40	16.0	0.0		
50	PV2 BPSK	1	1	2521.02	2592.99	2564.99				
50	PV2 BPSK	1	1	14.40	14.53	14.40				
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	14.47	14.54	14.42	16.0	0.0		
40	PV2 BPSK	1	1	2516.01	2592.99	2570				
40	PV2 BPSK	1	1	14.47	14.54	14.42				
Channel										
Frequency (MHz)										
30	PV2 BPSK	1	1	2511	2592.99	2574.98	16.0	0.0		
30	PV2 BPSK	1	1	14.38	14.59	14.47				
30	PV2 BPSK	1	1	14.38	14.59	14.47				
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	14.45	14.45	14.45	16.0	0.0		
20	PV2 BPSK	1	1	2501.04	2592.99	2578.99				
20	PV2 BPSK	1	1	14.45	14.45	14.45				

n41_FCC_HPUE_Ant2										
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)										
100	PV2 BPSK	1	1	16.06	16.03	16.07	17.5	0.0		
100	PV2 BPSK	1	137	16.08	16.03	16.03				
100	PV2 BPSK	1	271	16.01	16.05	16.05				
100	PV2 BPSK	135	0	16.06	16.06	16.01	17.5	0.0		
100	PV2 BPSK	135	69	16.04	16.08	16.08				
100	PV2 BPSK	135	138	16.05	16.09	16.06				
100	PV2 BPSK	270	0	16.05	16.03	16.08	17.5	0.0		
100	QPSK	1	1	16.06	16.19	16.11				
100	QPSK	1	137	16.08	16.15	16.08				
100	QPSK	1	271	16.04	16.07	16.07	17.5	0.0		
100	QPSK	135	0	16.09	16.01	16.07				
100	QPSK	135	69	16.03	16.08	16.07				
100	QPSK	135	138	16.05	16.01	16.06	17.5	0.0		
100	QPSK	270	0	16.04	16.09	16.07				
100	16QAM	1	1	16.07	16.08	16.01				
100	16QAM	1	1	16.02	16.06	16.02	17.5	0.0		
100	256QAM	1	1	16.07	16.01	16.03				
100	256QAM	1	1	16.07	16.01	16.03				
Channel										
Frequency (MHz)										
90	PV2 BPSK	1	1	25.41	25.92	25.44	16.0	0.0		
90	PV2 BPSK	1	1	15.04	16.14	16.02				
90	PV2 BPSK	1	1	232.01	231.98	231.99				
Channel										
Frequency (MHz)										
80	PV2 BPSK	1	1	16.01	16.15	16.02	17.5	0.0		
80	PV2 BPSK	1	1	2536.02	2592.99	2549.99				
80	PV2 BPSK	1	1	16.01	16.15	16.02				
Channel										
Frequency (MHz)										
70	PV2 BPSK	1	1	16.02	16.13	16.02	17.5	0.0		
70	PV2 BPSK	1	1	2531.01	2592.99	2555				
70	PV2 BPSK	1	1	16.02	16.13	16.02				
Channel										
Frequency (MHz)										
60	PV2 BPSK	1	1	15.96	16.07	16.04	17.5	0.0		
60	PV2 BPSK	1	1	2526	2592.99	2559.98				
60	PV2 BPSK	1	1	15.96	16.07	16.04				
Channel										
Frequency (MHz)										
50	PV2 BPSK	1	1	16.03	16.13	16.10	17.5	0.0		
50	PV2 BPSK	1	1	2521.02	2592.99	2564.99				
50	PV2 BPSK	1	1	16.03	16.13	16.10				
Channel										
Frequency (MHz)										
40	PV2 BPSK	1	1	16.04	16.17	16.05	17.5	0.0		
40	PV2 BPSK	1	1	2516.01	2592.99	2570				
40	PV2 BPSK	1	1	16.04	16.17	16.05				
Channel										
Frequency (MHz)										
30	PV2 BPSK	1	1	2511	2592.99	2574.98	17.5	0.0		
30	PV2 BPSK	1	1	16.04	16.14	16.09				
30	PV2 BPSK	1	1	16.04	16.14	16.09				
Channel										
Frequency (MHz)										
20	PV2 BPSK	1	1	16.04	16.08	16.06	17.5	0.0		
20	PV2 BPSK	1	1	2501.04	2592.99	2578.99				
20	PV2 BPSK	1	1	16.04	16.08	16.06				



<WLAN 2.4GHz FCC> - Full Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b 1Mbps	1	2412	Full	18.80	21.50	19.70	21.50	22.76	24.90	100.00
	6	2437	Full	18.80	21.50	19.80	21.50	22.81	24.90	
802.11g 6Mbps	11	2462	Full	19.80	21.50	19.80	21.50	22.81	24.90	99.32
	1	2412	Full	18.80	21.50	19.50	21.50	22.68	24.50	
802.11n HT20 MCS0	6	2437	Full	18.20	22.00	18.20	22.00	21.81	25.00	100.00
	11	2462	Full	17.70	19.00	18.00	19.00	20.35	22.00	
802.11n HT40 MCS0	1	2412	Full	18.80	20.50	19.30	20.50	22.07	23.50	100.00
	6	2437	Full	20.20	22.00	20.30	22.00	23.11	25.00	
802.11ac-VHT20 MCS0	3	2422	Full	18.10	20.00	18.40	20.00	21.26	23.00	100.00
	9	2452	Full	18.00	18.00	18.00	18.00	19.71	21.00	
802.11ac-VHT40 MCS0	1	2412	Full	18.70	20.50	19.20	20.50	21.97	23.50	100.00
	11	2462	Full	18.20	20.00	18.50	18.00	19.38	21.00	
802.11ax-HE20 MCS0	6	2437	Full	20.00	22.00	20.00	22.00	23.01	25.00	100.00
	9	2452	Full	18.50	18.00	18.70	18.00	19.61	21.00	
802.11ax-HE40 MCS0	1	2412	Full	18.90	20.50	19.40	20.50	22.17	23.50	100.00
	6	2437	Full	18.90	20.50	19.40	20.50	22.17	23.50	
802.11ax-HE60 MCS0	11	2462	Full	16.40	18.00	16.70	18.00	19.96	21.00	100.00
	6	2437	Full	16.40	18.00	16.70	18.00	19.96	21.00	
802.11ax-HE80 MCS0	3	2422	Full	16.30	18.00	16.60	18.00	20.00	21.00	100.00
	9	2452	Full	16.30	18.00	16.60	18.00	20.00	21.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 6		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b 1Mbps	1	2412	Full	18.80	21.50	18.80	20.00	22.27	24.90	100.00
	6	2437	Full	18.80	21.50	19.80	20.00	22.34	24.90	
802.11g 6Mbps	11	2462	Full	19.80	21.50	19.80	20.00	22.31	24.90	99.32
	1	2412	Full	18.80	21.50	18.80	20.00	22.27	24.50	
802.11n HT20 MCS0	6	2437	Full	18.20	22.00	18.20	20.00	21.81	25.00	100.00
	11	2462	Full	17.50	19.00	18.00	19.00	20.74	22.50	
802.11n HT40 MCS0	1	2412	Full	18.80	20.50	17.50	18.50	21.27	22.50	100.00
	6	2437	Full	19.10	20.00	17.70	18.50	21.47	24.00	
802.11ac-VHT20 MCS0	3	2422	Full	18.30	20.00	17.00	18.50	21.54	22.50	100.00
	9	2452	Full	17.80	18.00	18.00	18.00	20.08	21.00	
802.11ac-VHT40 MCS0	1	2412	Full	18.80	20.50	17.50	18.50	21.54	22.50	100.00
	11	2462	Full	17.40	18.50	15.00	17.00	19.72	21.00	
802.11ax-HE20 MCS0	6	2437	Full	20.20	22.00	18.70	20.50	22.52	24.50	100.00
	9	2452	Full	17.70	18.50	16.10	17.00	19.88	21.00	
802.11ax-HE40 MCS0	1	2412	Full	18.70	20.50	17.70	19.50	21.47	22.50	100.00
	6	2437	Full	18.70	20.50	17.70	19.50	21.47	22.50	
802.11ax-HE60 MCS0	11	2462	Full	16.30	18.00	16.60	18.00	19.96	21.00	100.00
	6	2437	Full	16.30	18.00	16.60	18.00	19.96	21.00	
802.11ax-HE80 MCS0	3	2422	Full	16.20	18.00	16.50	18.00	20.00	21.00	100.00
	9	2452	Full	16.20	18.00	16.50	18.00	20.00	21.00	

<WLAN 5GHz FCC> - Full Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	36	5180	Full	18.74	20.50	18.80	20.50	21.79	23.50	99.18
	40	5200	Full	18.81	20.50	20.02	20.50	22.93	23.50	
802.11n HT20 MCS0	44	5220	Full	18.88	20.50	18.81	20.50	21.83	23.50	100.00
	48	5240	Full	18.67	20.50	18.77	20.50	21.74	23.50	
802.11n HT40 MCS0	38	5160	Full	18.84	20.50	19.88	20.50	22.21	23.50	100.00
	44	5220	Full	18.88	20.50	20.05	20.50	22.98	23.50	
802.11ac-VHT20 MCS0	48	5240	Full	19.81	20.50	19.84	20.50	22.88	23.50	100.00
	38	5160	Full	18.20	20.00	18.52	20.00	21.37	23.00	
802.11ac-VHT40 MCS0	46	5230	Full	19.08	20.50	18.83	20.50	21.98	23.50	100.00
	36	5180	Full	19.35	20.50	19.43	20.50	22.44	23.50	
802.11ac-VHT80 MCS0	40	5200	Full	19.71	20.50	20.00	20.50	22.87	23.50	100.00
	44	5220	Full	19.78	20.50	20.04	20.50	22.91	23.50	
802.11ax-HE20 MCS0	48	5240	Full	19.79	20.50	19.87	20.50	22.84	23.50	100.00
	38	5160	Full	18.15	20.00	18.50	20.00	21.34	23.00	
802.11ax-HE40 MCS0	46	5230	Full	19.54	20.50	19.80	20.50	21.93	23.50	100.00
	42	5210	Full	18.53	20.50	18.65	20.50	21.80	23.00	
802.11ax-HE60 MCS0	36	5180	Full	18.40	20.50	19.80	20.50	22.54	23.50	100.00
	44	5220	Full	18.44	20.50	19.70	20.50	22.86	24.00	
802.11ax-HE80 MCS0	40	5200	Full	18.89	20.50	20.16	20.50	23.04	23.50	100.00
	44	5220	Full	18.95	20.50	20.06	20.50	23.02	23.50	
802.11be-EHT20 MCS0	48	5240	Full	18.88	20.50	18.88	20.50	21.93	23.50	100.00
	40	5200	Full	18.91	20.50	20.11	20.50	23.05	23.50	
802.11be-EHT40 MCS0	44	5220	Full	19.96	20.50	20.20	20.50	23.09	23.50	100.00
	48	5240	Full	20.02	20.50	20.11	20.50	23.08	23.50	
802.11be-EHT80 MCS0	38	5160	Full	18.24	20.00	18.59	20.00	21.43	23.00	100.00
	42	5210	Full	18.20	20.50	18.51	20.50	22.49	23.50	
802.11be-EHT160 MCS0	42	5210	Full	18.68	20.50	18.69	20.50	21.65	23.00	100.00
	42	5210	Full	18.68	20.50	18.69	20.50	21.65	23.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 6		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	36	5180	Full	19.27	20.50	19.31	19.27	21.83	23.50	99.18
	40	5200	Full	19.81	20.50	19.82	19.82	22.36	23.50	
802.11n HT20 MCS0	44	5220	Full	19.43	20.50	19.43	20.50	21.83	23.50	100.00
	48	5240	Full	18.44	20.50	18.25	19.50	21.86	23.50	
802.11n HT40 MCS0	40	5200	Full	20.15	20.50	19.82	19.50	22.25	23.50	100.00
	44	5220	Full	20.14	20.50	18.87	19.40	22.86	23.50	
802.11ac-VHT20 MCS0	48	5240	Full	20.12	20.50	19.77	20.50	22.83	23.50	100.00
	38	5160	Full	18.50	19.50	17.27	18.50	20.54	22.00	
802.11ac-VHT40 MCS0	46	5230	Full	19.29	20.50	18.46	19.50	21.91	23.50	100.00
	40	5200	Full	20.00	20.50	18.86	19.50	22.48	23.50	
802.11ac-VHT80 MCS0	44	5220	Full	19.97	20.50	19.85	19.50	22.46	23.50	100.00
	48	5240	Full	19.98	20.50	19.74	19.50	22.62	23.50	
802.11ax-HE20 MCS0	48	5240	Full	19.88	20.50	19.88	20.50	21.93	23.50	100.00
	44	5220	Full	20.15	20.50	18.92	19.50	22.99	23.50	
802.11ax-HE40 MCS0	46	5230	Full	19.27	20.50	19.44	19.50	21.96	23.50	100.00
	42	5210	Full	18.54	20.50	17.89	19.50	21.15	23.00	
802.11ax-HE60 MCS0	36	5180	Full	19.69	20.50	19.35	19.50	22.08	23.50	100.00
	44	5220	Full	19.62	20.50	19.82	19.50	22.49	23.50	
802.11ax-HE80 MCS0	40	5200	Full	19.27	20.50	19.50	20.50	22.44	23.50	100.00
	44	5220	Full	19.27	20.50	19.50	20.50	22.44	23.50	
802.11be-EHT20 MCS0	48	5240	Full	19.88	20.50	19.88	20.50	21.93	23.50	100.00
	40	5200	Full	20.32	20.50	19.00	19.50	22.74	23.50	
802.11be-EHT40 MCS0	44	5220	Full	20.21	20.50	18.94	19.50	22.63	23.50	100.00
	48	5240	Full	20.20	20.50	18.85	19.50	22.69	23.50	
802.11be-EHT80 MCS0	38	5160	Full	18.54	19.50	17.31	18.50	20.88	22.00	100.00
	42	5210	Full	18.53	20.50	18.56	20.50	21.96	23.50	
802.11be-EHT160 MCS0	42	5210	Full	18.68	20.50	17.70	19.50	21.17	23.00	100.00
	42	5210	Full	18.68	20.50	17.70	19.50	21.17	23.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.1										



Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5900	Full	18.90	20.50	19.41	20.50	22.18	23.50	99.18
	116	5980	Full	19.48	20.50	19.86	20.50	22.69	23.50	
	132	5960	Full	19.28	20.50	19.74	20.50	22.33	23.50	
	140	5700	Full	19.23	20.50	19.69	20.50	22.48	23.50	
802.11n-HT20 MCS0	100	5900	Full	19.25	20.50	19.72	20.50	22.59	23.50	100.00
	116	5980	Full	19.25	20.50	19.72	20.50	22.59	23.50	
	132	5960	Full	19.14	20.50	19.62	20.50	22.40	23.50	
	140	5700	Full	19.13	20.50	19.57	20.50	22.37	23.50	
802.11n-HT40 MCS0	100	5900	Full	18.53	20.50	18.75	20.50	21.65	23.50	100.00
	110	5950	Full	19.65	20.50	19.96	20.50	22.82	23.50	
	134	5940	Full	19.42	20.50	19.83	20.50	22.76	23.50	
	100	5900	Full	19.21	20.50	19.25	20.50	22.24	23.50	
802.11ac-VHT20 MCS0	116	5980	Full	19.20	20.50	19.62	20.50	22.43	23.50	100.00
	132	5960	Full	19.17	20.50	19.63	20.50	22.35	23.50	
	140	5700	Full	19.08	20.50	19.63	20.50	22.32	23.50	
	102	5910	Full	18.52	20.50	18.71	20.50	21.63	23.50	
802.11ac-VHT40 MCS0	116	5980	Full	19.60	20.50	19.93	20.50	22.78	23.50	100.00
	134	5970	Full	19.69	20.50	19.96	20.50	22.79	23.50	
	106	5930	Full	18.65	20.50	18.71	20.50	21.69	23.50	
	100	5900	Full	19.43	20.50	20.08	20.50	22.78	23.50	
802.11ac-VHT80 MCS0	100	5900	Full	18.80	20.50	18.83	20.50	21.87	23.50	100.00
	116	5980	Full	18.93	20.50	18.67	20.50	21.82	23.50	
	132	5960	Full	19.41	20.50	19.84	20.50	22.18	23.50	
	140	5700	Full	19.43	20.50	18.63	20.50	22.18	23.50	
802.11ax-HE20 MCS0	100	5900	Full	19.46	20.50	19.92	20.50	22.71	23.50	100.00
	116	5980	Full	19.33	20.50	19.79	20.50	22.53	23.50	
	132	5960	Full	19.27	20.50	19.77	20.50	22.54	23.50	
	140	5700	Full	19.26	20.50	19.04	20.50	21.98	23.50	
802.11ax-HE40 MCS0	102	5910	Full	18.54	20.50	18.75	20.50	21.63	23.50	100.00
	110	5950	Full	19.72	20.50	19.99	20.50	22.87	23.50	
	134	5970	Full	19.63	20.50	20.04	20.50	22.85	23.50	
	106	5930	Full	18.67	20.50	18.73	20.50	21.71	23.50	
802.11be-EHT20 MCS0	100	5900	Full	19.52	20.50	20.11	20.50	22.83	23.50	100.00
	260	9.98	11.50	10.67	12.50	13.30	15.00			
	5237	12.33	14.50	12.98	14.50	15.77	17.50			
	10653	15.35	17.00	16.38	18.00	18.81	20.50			
802.11be-EHT40 MCS0	116	5980	Full	19.52	20.50	20.03	20.50	22.79	23.50	100.00
	132	5960	Full	19.48	20.50	19.97	20.50	22.74	23.50	
	140	5700	Full	19.33	20.50	19.86	20.50	22.61	23.50	
	140	5700	Full	20.93	17.00	15.15	12.00	13.17	15.00	
802.11be-EHT80 MCS0	102	5910	Full	18.56	20.50	18.82	20.50	21.70	23.50	100.00
	110	5950	Full	19.81	20.50	20.26	20.50	23.94	24.00	
	134	5970	Full	19.75	20.50	20.06	20.50	22.52	23.50	
	106	5930	Full	18.69	20.50	18.76	20.50	21.74	23.50	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	140	5745	Full	19.27	21.00	19.66	21.00	22.48	24.00	99.18
	157	5785	Full	19.26	21.00	19.58	21.00	22.44	24.00	
	165	5825	Full	19.17	21.00	19.61	21.00	22.41	24.00	
	140	5745	Full	19.36	21.00	19.66	21.00	22.52	24.00	
802.11n-HT20 MCS0	140	5745	Full	19.15	21.00	19.60	21.00	22.36	24.00	100.00
	157	5785	Full	19.17	21.00	19.65	21.00	22.43	24.00	
	165	5825	Full	19.17	21.00	19.65	21.00	22.43	24.00	
	151	5795	Full	19.84	21.50	20.21	21.50	23.08	24.00	
802.11n-HT40 MCS0	140	5745	Full	18.78	21.50	20.20	21.50	23.01	24.00	100.00
	157	5785	Full	19.30	21.00	19.81	21.00	22.47	24.00	
	165	5825	Full	19.11	21.00	19.50	21.00	22.32	24.00	
	151	5795	Full	19.14	21.00	19.63	21.00	22.40	24.00	
802.11ac-VHT20 MCS0	151	5795	Full	19.81	21.50	20.17	21.50	23.00	24.00	100.00
	159	5795	Full	19.74	21.50	20.15	21.50	22.98	24.00	
	106	5930	Full	18.63	21.50	19.89	21.50	22.77	24.00	
	140	5745	Full	19.45	21.00	19.79	21.00	22.63	24.00	
802.11ac-VHT40 MCS0	151	5795	Full	19.81	21.50	20.17	21.50	23.00	24.00	100.00
	159	5795	Full	19.74	21.50	20.15	21.50	22.98	24.00	
	106	5930	Full	18.63	21.50	19.89	21.50	22.77	24.00	
	140	5745	Full	19.45	21.00	19.79	21.00	22.63	24.00	
802.11ac-VHT80 MCS0	140	5745	Full	18.67	21.00	18.67	21.00	22.78	24.00	100.00
	260	9.97	12.00	10.01	12.00	13.20	15.00			
	5237	12.80	14.50	12.76	14.50	15.72	17.50			
	10653	15.80	17.50	16.06	18.00	18.94	20.50			
802.11be-EHT20 MCS0	157	5785	Full	19.36	21.00	19.86	21.00	22.63	24.00	100.00
	165	5825	Full	20.93	17.00	15.15	12.00	13.17	15.00	
	260	9.98	11.50	10.67	12.50	13.30	15.00			
	5240	12.40	14.00	12.32	14.00	15.37	17.00			
802.11be-EHT40 MCS0	157	5785	Full	19.36	21.00	19.86	21.00	22.63	24.00	100.00
	165	5825	Full	20.93	17.00	15.15	12.00	13.17	15.00	
	260	9.98	11.50	10.67	12.50	13.30	15.00			
	5240	12.40	14.00	12.32	14.00	15.37	17.00			
802.11be-EHT80 MCS0	151	5795	Full	19.87	21.50	20.26	21.50	23.08	24.00	100.00
	159	5795	Full	19.84	21.50	20.23	21.50	23.05	24.00	
	106	5930	Full	18.63	21.50	19.89	21.50	22.77	24.00	
	155	5775	Full	19.78	21.50	20.12	21.50	22.96	24.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 3/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5900	Full	18.88	20.50	18.83	20.50	21.87	23.50	99.18
	116	5980	Full	18.93	20.50	18.67	20.50	21.82	23.50	
	132	5960	Full	19.41	20.50	19.84	20.50	22.18	23.50	
	140	5700	Full	19.43	20.50	18.63	20.50	22.18	23.50	
802.11n-HT20 MCS0	100	5900	Full	19.46	20.50	19.99	20.50	22.96	23.50	100.00
	116	5980	Full	19.46	20.50	19.99	20.50	22.96	23.50	
	132	5960	Full	19.33	20.50	18.79	20.50	22.98	23.50	
	140	5700	Full	19.42	20.50	18.63	20.50	22.18	23.50	
802.11n-HT40 MCS0	102	5910	Full	18.01	20.50	18.07	20.50	21.95	23.50	100.00
	110	5950	Full	20.14	20.50	19.85	20.50	23.01	23.50	
	134	5940	Full	20.03	20.50	20.45	20.50	22.76	23.50	
	100	5900	Full	19.52	20.50	19.30	20.50	22.42	23.50	
802.11ac-VHT20 MCS0	116	5980	Full	19.43	20.50	19.07	20.50	22.26	23.50	100.00
	132	5960	Full	19.41	20.50	19.89	20.50	22.18	23.50	
	140	5700	Full	19.37	20.50	18.84	20.50	22.12	23.50	
	102	5910	Full	18.99	20.50	18.85	20.50	21.93	23.50	
802.11ac-VHT40 MCS0	116	5980	Full	20.10	20.50	19.82	20.50	22.95	23.50	100.00
	134	5970	Full	19.96	20.50	19.42	20.50	22.71	23.50	
	106	5930	Full	18.82	20.50	18.52	20.50	21.68	23.50	
	100	5900	Full	19.64	20.50	19.33	20.50	22.50	23.50	
802.11ac-VHT80 MCS0	100	5900	Full	18.80	20.50	18.83	20.50	21.87	23.50	100.00
	116	5980	Full	18.93	20.50	18.67	20.50	21.82	23.50	
	132	5960	Full	19.41	20.50	19.84	20.50	22.18	23.50	
	140	5700	Full	19.43	20.50	18.63	20.50	22.18	23.50	
802.11ax-HE20 MCS0	100	5900	Full	19.46	20.50	19.92	20.50	22.71	23.50	100.00
	116	5980	Full	19.33	20.50	19.79	20.50	22.53	23.50	
	132	5960	Full	19.47	20.50	18.82	20.50	22.21	23.50	
	140	5700	Full	19.46	20.50	18.68	20.50	22.18	23.50	
802.11ax-HE40 MCS0	102	5910	Full	18.54	20.50	18.75</				



<WLAN 2.4GHz FCC> - Receiver On Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b Mbps	1	2412	FuL	19.80	21.50	16.90	18.50	19.90	21.50	100.00
	6	2437	FuL	19.80	21.50	17.00	18.50	20.00	21.50	
802.11g @Mbps	11	2462	FuL	19.80	21.50	16.80	18.50	19.80	21.50	99.32
	6	2437	FuL	20.20	22.00	18.50	20.00	21.50	21.50	
802.11a-HT20 MCS0	1	2412	FuL	18.80	20.50	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.20	22.00	18.50	20.00	21.50	21.50	
802.11a-HT40 MCS0	3	2422	FuL	18.10	20.00	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.10	22.00	18.50	20.00	21.50	21.50	
802.11ac-VHT20 MCS0	1	2412	FuL	18.70	20.50	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.10	22.00	18.50	20.00	21.50	21.50	
802.11ac-VHT40 MCS0	3	2422	FuL	18.00	20.00	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.00	22.00	18.50	20.00	21.50	21.50	
802.11ax-HE20 MCS0	1	2412	FuL	18.90	20.50	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.40	22.00	18.50	20.00	21.50	21.50	
802.11ax-HE40 MCS0	3	2422	FuL	18.30	20.00	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.20	22.00	18.50	20.00	21.50	21.50	
802.11be-EHT20 MCS0	1	2412	FuL	18.90	20.50	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.50	22.00	18.50	20.00	21.50	21.50	
802.11be-EHT40 MCS0	3	2422	FuL	18.30	20.00	18.50	20.00	21.50	21.50	100.00
	6	2437	FuL	20.30	22.00	18.50	20.00	21.50	21.50	

<WLAN 5GHz FCC> - Receiver On Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	36	5180	FuL	18.74	20.50	18.00	20.00	21.00	21.00	99.18
	40	5200	FuL	18.81	20.50	18.00	20.00	21.00	21.00	
802.11a-HT20 MCS0	44	5220	FuL	18.66	20.50	18.00	20.00	21.00	21.00	100.00
	48	5240	FuL	18.67	20.50	18.00	20.00	21.00	21.00	
802.11a-HT40 MCS0	36	5180	FuL	18.40	20.50	18.00	20.00	21.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	21.00	21.00	
802.11ac-VHT20 MCS0	44	5220	FuL	18.88	20.50	18.00	20.00	21.00	21.00	100.00
	48	5240	FuL	18.81	20.50	18.00	20.00	21.00	21.00	
802.11ac-VHT40 MCS0	36	5180	FuL	18.30	20.50	18.00	20.00	21.00	21.00	100.00
	40	5200	FuL	18.71	20.50	18.00	20.00	21.00	21.00	
802.11ac-VHT80 MCS0	44	5220	FuL	18.75	20.50	18.00	20.00	21.00	21.00	100.00
	48	5240	FuL	18.78	20.50	18.00	20.00	21.00	21.00	
802.11ax-HE20 MCS0	36	5180	FuL	18.22	20.00	18.00	20.00	21.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	21.00	21.00	
802.11ax-HE40 MCS0	36	5180	FuL	18.22	20.00	18.00	20.00	21.00	21.00	100.00
	40	5200	FuL	18.94	20.50	18.00	20.00	21.00	21.00	
802.11be-EHT20 MCS0	36	5180	FuL	18.40	20.50	18.00	20.00	21.00	21.00	100.00
	40	5200	FuL	18.91	20.50	18.00	20.00	21.00	21.00	
802.11be-EHT40 MCS0	36	5180	FuL	18.24	20.00	18.00	20.00	21.00	21.00	100.00
	40	5200	FuL	18.91	20.50	18.00	20.00	21.00	21.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 3		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	52	5260	FuL	18.62	20.50	18.00	20.00	21.00	21.00	99.18
	56	5280	FuL	18.62	20.50	18.00	20.00	21.00	21.00	
802.11a-HT20 MCS0	60	5300	FuL	18.60	20.50	18.00	20.00	21.00	21.00	100.00
	64	5320	FuL	18.18	20.50	18.00	20.00	21.00	21.00	
802.11a-HT40 MCS0	52	5260	FuL	18.69	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.59	20.50	18.00	20.00	21.00	21.00	
802.11ac-VHT20 MCS0	60	5300	FuL	18.62	20.50	18.00	20.00	21.00	21.00	100.00
	64	5320	FuL	18.56	20.50	18.00	20.00	21.00	21.00	
802.11ac-VHT40 MCS0	52	5260	FuL	18.69	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.55	20.50	18.00	20.00	21.00	21.00	
802.11ac-VHT80 MCS0	52	5260	FuL	18.60	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.52	20.50	18.00	20.00	21.00	21.00	
802.11ax-HE20 MCS0	52	5260	FuL	18.56	20.50	18.3	18	19.40	21.00	100
	56	5280	FuL	18.56	20.50	18.00	20.00	21.00	21.00	
802.11ax-HE40 MCS0	52	5260	FuL	18.84	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.74	20.50	18.00	20.00	21.00	21.00	
802.11ax-HE80 MCS0	52	5260	FuL	18.76	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.69	20.50	18.00	20.00	21.00	21.00	
802.11be-EHT20 MCS0	52	5260	FuL	18.62	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.62	20.50	18.00	20.00	21.00	21.00	
802.11be-EHT40 MCS0	52	5260	FuL	18.74	20.50	18.00	20.00	21.00	21.00	100.00
	56	5280	FuL	18.47	20.50	18.00	20.00	21.00	21.00	



Mode	Channel	Frequency (MHz)	Ru Config	Ant 6		Ant 4		Ant 6+4		Duty Cycle %	
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit		
802.11a @Mbps	100	5500	Full	18.90	20.50		14.00	17.00	99.18		
		5580	Full	19.48	20.50		14.00	17.00			
		5660	Full	19.28	20.50		14.00	17.00			
	802.11a-HT20 MCS0	140	5700	Full	19.23	20.50		14.00	17.00	100.00	
			5550	Full	19.25	20.50		14.00	17.00		
			5580	Full	19.23	20.50		14.00	17.00		
	802.11a-VHT40 MCS0	132	5660	Full	19.14	20.50		14.00	17.00	100.00	
			5700	Full	19.33	20.50		14.00	17.00		
			5510	Full	18.53	20.50	Not Required	Not Required	14.00		17.00
	802.11a-VHT20 MCS0	110	5550	Full	19.65	20.50		14.00	17.00	100.00	
			5600	Full	19.62	20.50		14.00	17.00		
			5500	Full	19.21	20.50		14.00	17.00		
802.11ac-VHT20 MCS0	140	5700	Full	19.08	20.50		14.00	17.00	100.00		
		5550	Full	19.20	20.50		14.00	17.00			
		5580	Full	19.17	20.50		14.00	17.00			
802.11ac-VHT40 MCS0	132	5660	Full	19.08	20.50		14.00	17.00	100.00		
		5700	Full	19.08	20.50		14.00	17.00			
		5510	Full	18.50	20.50		14.00	17.00			
802.11ac-VHT80 MCS0	106	5530	Full	19.59	20.50		14.00	17.00	100.00		
		5570	Full	18.65	20.50	12.08	14.00	15.45			
		5610	Full	18.62	20.50		14.00	17.00			
802.11a-HE20 MCS0	100	5500	Full	18.43	20.50		14.00	17.00	100.00		
		5580	Full	18.43	20.50		14.00	17.00			
		5660	Full	18.43	20.50		14.00	17.00			
	140	5700	Full	19.27	20.50		14.00	17.00	100.00		
		5550	Full	19.08	20.50		14.00	17.00			
		5580	Full	19.46	20.50		14.00	17.00			
	802.11a-HE40 MCS0	110	5550	Full	18.54	20.50		14.00	17.00	100.00	
			5600	Full	18.72	20.50		14.00	17.00		
			5500	Full	18.63	20.50		14.00	17.00		
	802.11a-HE80 MCS0	106	5530	Full	18.67	20.50		14.00	17.00	100.00	
			5570	Full	18.67	20.50	Not Required	Not Required	14.00		17.00
			5610	Full	18.50	20.50		14.00	17.00		
802.11b-EHT20 MCS0	100	5500	Full	19.50	20.50		14.00	17.00	100.00		
		5580	Full	19.98	20.50		14.00	17.00			
		5660	Full	19.53	20.50		14.00	17.00			
	140	5700	Full	19.33	20.50		14.00	17.00	100.00		
		5550	Full	19.54	20.50		14.00	17.00			
		5580	Full	19.48	20.50		14.00	17.00			
	802.11b-EHT40 MCS0	110	5550	Full	18.54	20.50		14.00	17.00	100.00	
			5600	Full	18.72	20.50		14.00	17.00		
			5500	Full	18.63	20.50		14.00	17.00		
	802.11b-EHT80 MCS0	106	5530	Full	18.69	20.50		14.00	17.00	100.00	
			5570	Full	18.69	20.50	Not Required	Not Required	14.00		17.00
			5610	Full	18.50	20.50		14.00	17.00		

Mode	Channel	Frequency (MHz)	Ru Config	Ant 6		Ant 4		Ant 6+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a @Mbps	140	5745	Full	20.00	20.00		15.00	18.00	99.18	
		5785	Full	20.00	20.00		15.00	18.00		
		5825	Full	20.00	20.00		15.00	18.00		
	802.11a-HT20 MCS0	140	5745	Full	20.00	20.00		15.00	18.00	100.00
			5785	Full	20.00	20.00		15.00	18.00	
			5825	Full	20.00	20.00		15.00	18.00	
	802.11a-VHT40 MCS0	151	5795	Full	20.00	20.00	Not Required	Not Required	Not Required	100.00
			5745	Full	20.00	20.00		15.00	18.00	
			5785	Full	20.00	20.00		15.00	18.00	
	802.11ac-VHT20 MCS0	149	5745	Full	20.00	20.00		15.00	18.00	100.00
			5785	Full	20.00	20.00		15.00	18.00	
			5825	Full	20.00	20.00		15.00	18.00	
802.11ac-VHT40 MCS0	151	5795	Full	20.00	20.00		15.00	18.00	100.00	
		5745	Full	20.00	20.00		15.00	18.00		
		5785	Full	20.00	20.00		15.00	18.00		
802.11ac-VHT80 MCS0	155	5775	Full	18.55	20.00	13.38	15.00	16.38	100.00	
		5745	Full	20.00	20.00		15.00	18.00		
		5785	Full	20.00	20.00		15.00	18.00		
802.11a-HE20 MCS0	149	5745	Full	20.00	20.00		15.00	18.00	100.00	
		5785	Full	20.00	20.00		15.00	18.00		
		5825	Full	20.00	20.00		15.00	18.00		
	157	5785	Full	20.00	20.00		15.00	18.00	100.00	
		5745	Full	20.00	20.00		15.00	18.00		
		5825	Full	20.00	20.00		15.00	18.00		
	802.11a-HE40 MCS0	151	5795	Full	20.00	20.00		15.00	18.00	100.00
			5745	Full	20.00	20.00		15.00	18.00	
			5785	Full	20.00	20.00		15.00	18.00	
	802.11a-HE80 MCS0	155	5775	Full	20.00	20.00	Not Required	Not Required	Not Required	100.00
			5745	Full	20.00	20.00		15.00	18.00	
			5785	Full	20.00	20.00		15.00	18.00	
802.11b-EHT20 MCS0	149	5745	Full	20.00	20.00		15.00	18.00	100.00	
		5785	Full	20.00	20.00		15.00	18.00		
		5825	Full	20.00	20.00		15.00	18.00		
	157	5785	Full	20.00	20.00		15.00	18.00	100.00	
		5745	Full	20.00	20.00		15.00	18.00		
		5825	Full	20.00	20.00		15.00	18.00		
	802.11b-EHT40 MCS0	151	5795	Full	20.00	20.00		15.00	18.00	100.00
			5745	Full	20.00	20.00		15.00	18.00	
			5785	Full	20.00	20.00		15.00	18.00	
	802.11b-EHT80 MCS0	155	5775	Full	20.00	20.00		15.00	18.00	100.00
			5745	Full	20.00	20.00		15.00	18.00	
			5785	Full	20.00	20.00		15.00	18.00	



<WLAN 2.4GHz FCC> - Receiver On Simultaneous Power

Mode	Channel	Frequency (MHz)	Ru Config	Ave 3		Ave 4		Ave 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	1	2412	FuL	18.00	21.00	13.70	15.00	16.68	18.00	100.00
	6	2437	FuL	19.80	21.50	13.90	15.00	16.78	18.00	
	11	2462	FuL	19.60	21.50	13.60	15.00	16.50	18.00	
802.11g 6Mbps	1	2412	FuL	18.00	21.00		15.00		18.00	99.32
	6	2437	FuL	20.20	22.00		15.00		18.00	
	11	2462	FuL	17.70	19.00		15.00		18.00	
802.11n-HT20 MCS0	1	2412	FuL	18.80	20.50		15.00		18.00	100.00
	6	2437	FuL	20.20	22.00		15.00		18.00	
	11	2462	FuL	18.30	19.00		15.00		18.00	
802.11n-HT40 MCS0	1	2412	FuL	18.10	20.00		15.00		18.00	100.00
	6	2437	FuL	20.10	22.00		15.00		18.00	
	11	2462	FuL	18.60	19.00		15.00		18.00	
802.11ac-VHT20 MCS0	1	2412	FuL	18.70	20.50		15.00		18.00	100.00
	6	2437	FuL	20.10	22.00		15.00		18.00	
	11	2462	FuL	18.20	19.00		15.00		18.00	
802.11ac-VHT40 MCS0	1	2412	FuL	18.00	20.00		15.00		18.00	100.00
	6	2437	FuL	20.00	22.00		15.00		18.00	
	11	2462	FuL	18.50	19.00		15.00		18.00	
802.11ax-HE20 MCS0	1	2412	FuL	18.90	20.50		15.00		18.00	100.00
	6	2437	FuL	20.40	22.00	Not Required	15.00	Not Required	18.00	
	11	2462	FuL	18.40	19.50		15.00		18.00	
802.11ax-HE40 MCS0	1	2412	FuL	19.20	20.00		15.00		18.00	100.00
	6	2437	FuL	20.20	22.00		15.00		18.00	
	11	2462	FuL	18.70	19.00		15.00		18.00	
802.11be-EHT20 MCS0	1	2412	FuL	19.00	20.50		15.00		18.00	100.00
	6	2437	FuL	20.50	22.00		15.00		18.00	
	11	2462	FuL	18.50	19.00		15.00		18.00	
802.11be-EHT40 MCS0	1	2412	FuL	18.90	20.00		15.00		18.00	100.00
	6	2437	FuL	20.30	22.00		15.00		18.00	
	11	2462	FuL	18.80	19.00		15.00		18.00	

<WLAN 5GHz FCC> - Receiver On Simultaneous Power

Mode	Channel	Frequency (MHz)	Ru Config	Ave 3		Ave 4		Ave 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	36	5180	FuL	18.00	18.00		15.00		18.00	99.18
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11n-HT20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11n-HT40 MCS0	36	5180	FuL	18.00	18.00	Not Required	15.00	Not Required	18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT80 MCS0	36	5180	FuL	17.39	18.00	14.04	15.00	17.07	18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE80 MCS0	36	5180	FuL	18.00	18.00	Not Required	15.00	Not Required	18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT20 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT40 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT80 MCS0	36	5180	FuL	18.00	18.00		15.00		18.00	100.00
	40	5200	FuL	18.00	18.00		15.00		18.00	
	44	5220	FuL	18.00	18.00		15.00		18.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ave 3		Ave 4		Ave 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	52	5260	FuL	18.00	18.00		15.00		18.00	99.18
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11n-HT20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11n-HT40 MCS0	52	5260	FuL	18.00	18.00	Not Required	15.00	Not Required	18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ac-VHT80 MCS0	52	5260	FuL	17.45	18.00	54.2	15	17.34	18.00	100
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11ax-HE80 MCS0	52	5260	FuL	18.00	18.00	Not Required	15.00	Not Required	18.00	100
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT20 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT40 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	
802.11be-EHT80 MCS0	52	5260	FuL	18.00	18.00		15.00		18.00	100.00
	56	5280	FuL	18.00	18.00		15.00		18.00	
	60	5300	FuL	18.00	18.00		15.00		18.00	



Mode	Channel	Frequency (MHz)	Ru Config	Act 3		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	99.18
	116	5580	FuL							
	132	5660	FuL							
802.11a-HT20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	116	5580	FuL							
	132	5660	FuL							
802.11a-HT40 MCS0	102	5510	FuL	Not Required	Not Required	11.50	11.50	14.50	14.50	100.00
	110	5550	FuL							
	134	5670	FuL							
802.11ac-VHT20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	116	5580	FuL							
	132	5660	FuL							
802.11ac-VHT40 MCS0	102	5510	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	110	5550	FuL							
	134	5670	FuL							
802.11ac-VHT80 MCS0	106	5530	FuL	15.64	17.00	10.65	11.50	13.35	14.50	100.00
			FuL							
			FuL							
802.11ax-HE20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			2650							
			5237							
			10603							
			16939							
			23275							
802.11ax-HE40 MCS0	102	5510	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	110	5550	FuL							
	134	5670	FuL							
802.11ax-HE80 MCS0	106	5530	FuL	Not Required	Not Required	11.50	11.50	14.50	14.50	100.00
			FuL							
			FuL							
802.11be-EHT20 MCS0	100	5500	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			2650							
			5237							
			10603							
			16939							
			23275							
802.11be-EHT40 MCS0	102	5510	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
	110	5550	FuL							
	134	5670	FuL							
802.11be-EHT80 MCS0	106	5530	FuL	17.00	17.00	11.50	11.50	14.50	14.50	100.00
			FuL							
			FuL							

Mode	Channel	Frequency (MHz)	Ru Config	Act 3		Act 4		Act 5/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	99.18
	157	5785	FuL							
	165	5825	FuL							
802.11a-HT20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	157	5785	FuL							
	165	5825	FuL							
802.11a-HT40 MCS0	151	5755	FuL	Not Required	Not Required	12.00	12.00	15.00	15.00	100.00
	159	5795	FuL							
	167	5835	FuL							
802.11ac-VHT20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	157	5785	FuL							
	165	5825	FuL							
802.11ac-VHT40 MCS0	151	5755	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	159	5795	FuL							
	167	5835	FuL							
802.11ac-VHT80 MCS0	155	5775	FuL	14.66	16.00	10.74	12.00	13.88	15.00	100.00
			FuL							
			FuL							
802.11ax-HE20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			2650							
			5237							
			10603							
			16939							
			23275							
802.11ax-HE40 MCS0	151	5755	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	159	5795	FuL							
	167	5835	FuL							
802.11ax-HE80 MCS0	155	5775	FuL	Not Required	Not Required	12.00	12.00	15.00	15.00	100.00
			FuL							
			FuL							
802.11be-EHT20 MCS0	149	5745	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			2650							
			5237							
			10603							
			16939							
			23275							
802.11be-EHT40 MCS0	151	5755	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
	159	5795	FuL							
	167	5835	FuL							
802.11be-EHT80 MCS0	155	5775	FuL	16.00	16.00	12.00	12.00	15.00	15.00	100.00
			FuL							
			FuL							



<WLAN 2.4GHz FCC> - Hotspot Power

Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 4		Act 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b-1Mbps	1	2412	Full	17.80	19.50	19.70	21.50	20.82	22.50	100.00
	6	2437	Full	17.90	19.50	19.80	21.50	20.90	22.50	
802.11g-6Mbps	11	2462	Full	17.70	19.50	19.50	20.70	20.72	22.50	99.32
	1	2412	Full	19.50	19.50	21.50	21.50	22.50	22.50	
802.11n-HT20 MCS0	6	2437	Full	19.50	20.20	22.00	22.00	22.50	22.50	100.00
	11	2462	Full	19.50	16.60	18.00	21.00	21.00	21.00	
802.11n-HT40 MCS0	3	2422	Full	19.50	18.80	20.00	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	
802.11ac-VHT20 MCS0	11	2462	Full	19.50	19.20	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	
802.11ac-VHT40 MCS0	3	2422	Full	19.50	18.70	20.00	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.00	22.00	22.00	22.50	22.50	
802.11ax-HE20 MCS0	1	2412	Full	19.50	18.40	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	18.70	20.50	22.50	22.50	22.50	
802.11ax-HE40 MCS0	3	2422	Full	19.50	19.90	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.20	22.00	22.00	22.50	22.50	
802.11be-EHT20 MCS0	1	2412	Full	19.50	18.50	17.50	20.00	20.00	20.00	100.00
	6	2437	Full	19.50	18.80	18.00	21.00	21.00	21.00	
802.11be-EHT40 MCS0	3	2422	Full	19.50	19.00	20.00	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	19.30	18.50	20.00	20.00	20.00	

<WLAN 5GHz FCC> - Hotspot Power

Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 4		Act 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-6Mbps	36	5180	Full	16.50	18.50	20.50	19.50	19.50	19.50	99.18
	40	5200	Full	16.50	20.02	20.50	19.50	19.50	19.50	
802.11n-HT20 MCS0	44	5220	Full	16.50	18.81	20.50	19.50	19.50	19.50	100.00
	48	5240	Full	16.50	18.77	20.50	19.50	19.50	19.50	
802.11n-HT40 MCS0	36	5180	Full	16.50	19.88	20.50	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	20.05	20.50	19.50	19.50	19.50	
802.11ac-VHT20 MCS0	36	5180	Full	16.50	19.94	20.50	19.50	19.50	19.50	100.00
	40	5200	Full	16.50	18.52	20.50	19.50	19.50	19.50	
802.11ac-VHT40 MCS0	46	5230	Full	16.50	18.83	20.50	19.50	19.50	19.50	100.00
	36	5180	Full	16.50	19.90	20.50	19.50	19.50	19.50	
802.11ax-HE20 MCS0	40	5200	Full	16.50	20.00	20.50	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	20.04	20.50	19.50	19.50	19.50	
802.11ax-HE40 MCS0	36	5180	Full	16.50	19.89	20.50	19.50	19.50	19.50	100.00
	46	5230	Full	16.50	18.50	20.50	19.50	19.50	19.50	
802.11be-EHT20 MCS0	40	5200	Full	15.75	16.50	18.65	20.50	18.69	19.50	100.00
	36	5180	Full	16.50	18.90	20.50	19.50	19.50	19.50	
802.11ax-HE20 MCS0	40	5200	Full	16.50	19.90	20.50	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	18.81	14.50	17.50	17.50	17.50	
802.11ax-HE40 MCS0	36	5180	Full	16.50	19.71	17.50	19.50	19.50	19.50	100.00
	48	5240	Full	16.50	20.04	20.50	19.50	19.50	19.50	
802.11ax-HE20 MCS0	40	5200	Full	16.50	20.04	20.50	19.50	19.50	19.50	100.00
	48	5240	Full	16.50	19.30	18.00	19.50	19.50	19.50	
802.11be-EHT40 MCS0	36	5180	Full	16.50	18.50	20.50	19.50	19.50	19.50	100.00
	46	5230	Full	16.50	18.99	20.50	19.50	19.50	19.50	
802.11be-EHT80 MCS0	42	5210	Full	16.50	18.69	20.50	19.50	19.50	19.50	100.00

<WLAN 5GHz FCC> - Hotspot Power

Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 4		Act 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-6Mbps	149	5745	Full	15.00	19.65	21.00	18.00	18.00	18.00	99.18
	157	5785	Full	15.00	19.28	21.00	18.00	18.00	18.00	
802.11n-HT20 MCS0	149	5745	Full	15.00	19.61	21.00	18.00	18.00	18.00	100.00
	157	5785	Full	15.00	19.66	21.00	18.00	18.00	18.00	
802.11n-HT40 MCS0	151	5765	Full	15.00	20.21	21.50	18.00	18.00	18.00	100.00
	159	5795	Full	15.00	20.20	21.50	18.00	18.00	18.00	
802.11ac-VHT20 MCS0	149	5745	Full	15.00	19.61	21.00	18.00	18.00	18.00	100.00
	157	5785	Full	15.00	19.50	21.00	18.00	18.00	18.00	
802.11ac-VHT40 MCS0	155	5825	Full	15.00	19.63	21.00	18.00	18.00	18.00	100.00
	151	5765	Full	15.00	20.17	21.50	18.00	18.00	18.00	
802.11ax-HE20 MCS0	155	5775	Full	13.88	15.00	19.89	21.50	16.94	18.00	100.00
	149	5745	Full	15.00	19.79	21.00	18.00	18.00	18.00	
802.11ax-HE20 MCS0	157	5785	Full	15.00	19.84	21.00	18.00	18.00	18.00	100.00
	165	5825	Full	15.00	19.78	21.00	18.00	18.00	18.00	
802.11ax-HE40 MCS0	151	5765	Full	15.00	19.63	21.00	18.00	18.00	18.00	100.00
	159	5795	Full	15.00	20.26	21.50	18.00	18.00	18.00	
802.11ax-HE80 MCS0	155	5775	Full	15.00	20.12	21.50	18.00	18.00	18.00	100.00
	149	5745	Full	15.00	19.61	21.00	18.00	18.00	18.00	
802.11be-EHT20 MCS0	157	5785	Full	15.00	19.92	21.00	18.00	18.00	18.00	100.00
	165	5825	Full	15.00	19.86	21.00	18.00	18.00	18.00	
802.11be-EHT40 MCS0	151	5765	Full	15.00	20.34	21.50	18.00	18.00	18.00	100.00
	159	5795	Full	15.00	20.38	21.50	18.00	18.00	18.00	
802.11be-EHT80 MCS0	155	5775	Full	15.00	20.23	21.50	18.00	18.00	18.00	100.00

Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 6		Act 5+6		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11b-1Mbps	1	2412	Full	17.80	19.50	18.50	20.00	20.42	22.00	100.00
	6	2437	Full	17.90	19.50	18.80	20.00	20.49	22.00	
802.11g-6Mbps	11	2462	Full	17.70	19.50	19.40	20.00	20.29	22.00	99.32
	1	2412	Full	19.50	18.50	20.00	22.00	22.00	22.00	
802.11n-HT20 MCS0	6	2437	Full	19.50	20.20	22.00	22.00	22.50	22.50	100.00
	11	2462	Full	19.50	16.60	18.00	21.00	21.00	21.00	
802.11n-HT40 MCS0	3	2422	Full	19.50	18.80	20.00	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	
802.11ac-VHT20 MCS0	11	2462	Full	19.50	19.20	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.10	22.00	22.00	22.50	22.50	
802.11ac-VHT40 MCS0	3	2422	Full	19.50	18.70	20.00	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.00	22.00	22.00	22.50	22.50	
802.11ax-HE20 MCS0	1	2412	Full	19.50	18.40	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	18.70	20.50	22.50	22.50	22.50	
802.11ax-HE40 MCS0	3	2422	Full	19.50	19.90	20.50	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	20.20	22.00	22.00	22.50	22.50	
802.11be-EHT20 MCS0	1	2412	Full	19.50	18.50	17.50	20.00	20.00	20.00	100.00
	6	2437	Full	19.50	18.80	18.00	21.00	21.00	21.00	
802.11be-EHT40 MCS0	3	2422	Full	19.50	19.00	20.00	22.50	22.50	22.50	100.00
	6	2437	Full	19.50	19.30	18.50	20.00	20.00	20.00	

Mode	Channel	Frequency (MHz)	Ru Config	Act 5		Act 6		Act 5+6		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a-6Mbps	36	5180	Full	16.50	18.50	20.50	19.50	19.50	19.50	99.18
	40	5200	Full	16.50	20.02	20.50	19.50	19.50	19.50	
802.11n-HT20 MCS0	44	5220	Full	16.50	18.81	20.50	19.50	19.50	19.50	100.00
	48	5240	Full	16.50	18.77	20.50	19.50	19.50	19.50	
802.11n-HT40 MCS0	36	5180	Full	16.50	19.88	20.50	19.50	19.50	19.50	100.00
	44	5220	Full	16.50	20.05	20.50	19.50	19.50	19.50	
802.11ac-VHT20 MCS0	36	5180	Full	16.50	19.94	20.50	19.50	19.50	19.50	100.00
	40</									



<WLAN 2.4GHz FCC> - Receiver Off Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %	
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit		
802.11b Mbps	1	2412	FuL	19.80	21.50	19.70	21.50	22.78	24.50	100.00	
	6	2437	FuL	19.80	21.50	19.80	21.50	22.81	24.50		
	11	2462	FuL	19.60	21.50	19.60	21.50	22.61	24.50		
802.11g Mbps	1	2412	FuL	19.80	21.50	19.50	21.50	22.66	24.50	99.32	
	6	2437	FuL	20.20	22.00	20.20	22.00	23.16	25.00		
	11	2462	FuL	17.70	19.00	18.00	19.00	20.88	22.00		
802.11n-HT20 MCS0	1	2412	FuL	18.80	20.50	19.30	20.50	22.07	23.50	100.00	
	6	2437	FuL	20.20	22.00	20.20	22.00	23.21	25.00		
	11	2462	FuL	18.30	19.50	18.00	19.50	19.46	21.00		
802.11n-HT40 MCS0	3	2422	FuL	18.10	20.00	18.40	20.00	21.28	23.00	100.00	
	6	2437	FuL	20.10	22.00	20.10	22.00	23.11	25.00		
	9	2452	FuL	16.80	18.00	18.00	19.71	21.00	21.00		
802.11ac-VHT20 MCS0	3	2422	FuL	20.10	22.00	20.10	22.00	23.11	25.00	100.00	
	6	2437	FuL	18.20	19.50	18.50	19.50	19.38	21.00		
	9	2452	FuL	16.80	18.00	18.30	20.00	21.61	23.00		
802.11ac-VHT40 MCS0	3	2422	FuL	20.20	22.00	20.20	22.00	23.01	25.00	100.00	
	6	2437	FuL	18.50	19.50	18.70	19.50	19.61	21.00		
	9	2452	FuL	16.80	18.00	18.00	19.61	21.00	21.00		
802.11ax-HE20 MCS0	1	2412	FuL	18.80	20.50	19.30	20.50	22.07	23.50	100.00	
		2607	11.40	13.00	12.90	14.90	15.22	17.50			
		10653	14.00	15.50	15.00	17.50	18.14	20.00			
	6	2437	FuL	20.40	22.00	20.30	22.00	23.36	25.00		
		FuL	16.40	18.00	18.70	19.00	19.56	21.00			
		2607	4.50	6.50	5.70	7.50	8.33	10.00			
	11	2462	FuL	18.50	19.50	18.50	19.50	19.46	21.00		
		5240	8.50	10.50	9.30	11.00	11.93	13.50			
		10654	12.40	14.00	13.00	15.70	16.72	18.00			
	3	2422	FuL	18.20	20.00	18.50	20.00	21.38	23.00		
		6	2437	FuL	20.20	22.00	20.20	22.00	23.21		25.00
9		2452	FuL	16.70	18.00	18.00	19.61	21.00	21.00		
802.11ax-HE40 MCS0	1	2412	FuL	18.80	20.50	19.30	20.50	22.07	23.50	100.00	
		2607	8.00	9.50	8.70	10.50	10.90	12.50			
		10653	13.00	15.00	13.50	15.32	17.00	17.00			
802.11ax-EHT20 MCS0	1	2412	FuL	20.50	22.00	20.40	22.00	23.46	25.00	100.00	
		FuL	16.40	18.00	18.70	19.00	19.56	21.00			
		2607	5.00	7.00	5.80	7.50	8.43	10.00			
802.11ax-EHT40 MCS0	3	2422	FuL	18.30	20.00	18.60	20.00	21.46	23.00	100.00	
		6	2437	FuL	20.30	22.00	20.30	22.00	23.31		25.00
		9	2452	FuL	16.80	18.00	17.00	19.00	19.91		21.00

<WLAN 5GHz FCC> - Receiver Off Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a Mbps	36	5180	FuL	19.80	18.80	20.50	22.00	22.00	22.00	99.18
	40	5200	FuL	19.80	20.02	20.50	22.00	22.00	22.00	
	44	5220	FuL	19.80	18.81	20.50	22.00	22.00	22.00	
802.11n-HT20 MCS0	48	5240	FuL	19.80	18.77	20.50	22.00	22.00	22.00	100.00
	36	5180	FuL	19.80	19.55	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.80	19.88	20.50	22.00	22.00	22.00	
802.11n-HT40 MCS0	48	5240	FuL	19.80	20.05	20.50	22.00	22.00	22.00	100.00
	36	5180	FuL	19.80	19.84	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.80	18.52	20.50	22.00	22.00	22.00	
802.11ac-VHT20 MCS0	48	5240	FuL	19.80	19.84	20.50	22.00	22.00	22.00	100.00
	36	5180	FuL	19.80	20.00	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.80	20.00	20.50	22.00	22.00	22.00	
802.11ac-VHT40 MCS0	36	5180	FuL	19.80	18.50	20.50	22.00	22.00	22.00	100.00
	48	5240	FuL	19.80	19.84	20.50	22.00	22.00	22.00	
	40	5200	FuL	19.80	18.50	20.50	22.00	22.00	22.00	
802.11ax-VHT80 MCS0	42	5210	FuL	17.39	19.00	18.65	20.50	20.34	22.00	100.00
	FuL	19.80	19.60	20.50	22.00	22.00	22.00			
	2607	11.00	12.18	12.00	14.50	17.50	17.50			
802.11ax-HE20 MCS0	40	5200	FuL	19.80	20.04	20.50	22.00	22.00	22.00	100.00
		FuL	17.50	17.71	17.50	20.50	22.00	22.00		
		10653	19.80	20.08	20.50	22.00	22.00	22.00		
802.11ax-HE40 MCS0	48	5240	FuL	19.80	19.88	20.50	22.00	22.00	22.00	100.00
		FuL	11.50	10.38	12.00	15.00	17.00	17.00		
		10654	14.50	13.06	13.00	15.00	15.00	17.00		
802.11ax-HE80 MCS0	42	5210	FuL	19.80	18.54	20.50	22.00	22.00	22.00	100.00
		FuL	19.80	18.50	20.50	22.00	22.00	22.00		
		2607	19.80	18.50	20.50	22.00	22.00	22.00		
802.11ax-EHT20 MCS0	36	5180	FuL	19.80	19.65	20.50	22.00	22.00	22.00	100.00
		FuL	11.50	10.29	12.00	14.50	17.50	17.50		
		10653	14.50	12.77	14.50	20.50	22.00	22.00		
802.11ax-EHT40 MCS0	48	5240	FuL	19.80	20.11	20.50	22.00	22.00	22.00	100.00
		FuL	18.00	20.11	20.50	22.00	22.00	22.00		
		2607	18.00	20.11	20.50	22.00	22.00	22.00		
802.11ax-EHT80 MCS0	42	5210	FuL	19.80	18.59	20.50	22.00	22.00	22.00	100.00
		FuL	19.80	19.81	20.50	22.00	22.00	22.00		
		2607	19.80	18.41	18.00	21.00	21.00	21.00		

<WLAN 5GHz FCC> - Receiver Off Standalone Power

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a Mbps	36	5180	FuL	19.50	19.81	20.50	22.50	22.50	22.50	99.18
	40	5200	FuL	19.50	19.81	20.50	22.50	22.50	22.50	
	44	5220	FuL	19.50	19.81	20.50	22.50	22.50	22.50	
802.11n-HT20 MCS0	48	5240	FuL	19.50	19.77	20.50	22.50	22.50	22.50	100.00
	36	5180	FuL	19.50	19.55	20.50	22.50	22.50	22.50	
	40	5200	FuL	19.50	19.88	20.50	22.50	22.50	22.50	
802.11n-HT40 MCS0	48	5240	FuL	19.50	20.05	20.50	22.50	22.50	22.50	100.00
	36	5180	FuL	19.50	19.84	20.50	22.50	22.50	22.50	
	40	5200	FuL	19.50	18.52	20.50	22.50	22.50	22.50	
802.11ac-VHT20 MCS0	48	5240	FuL	19.50	19.84	20.50	22.50	22.50	22.50	100.00
	36	5180	FuL	19.50	20.00	20.50	22.50	22.50	22.50	
	40	5200	FuL	19.50	20.00	20.50	22.50	22.50	22.50	
802.11ac-VHT40 MCS0	36	5180	FuL	19.50	18.50	20.50	22.50	22.50	22.50	100.00
	48	5240	FuL	19.50	19.84	20.50	22.50	22.50	22.50	
	40	5200	FuL	19.50	18.50	20.50	22.50	22.50	22.50	
802.11ac-VHT80 MCS0	58	5290	FuL	19.50	17.96	19.50	22.50	22.50	22.50	100.00
	50	5250	FuL	18.1	19.50	18.52	20.5	21.02	22.50	
	FuL	19.50	20.03	20.50	22.50	22.50	22.50			
802.11ax-HE20 MCS0	56	5280	FuL	19.50	19.92	20.50	22.50	22.50	22.50	100.00
		FuL	11.50	10.96	12.00	14.50	17.50	17.50		
		10653	14.50	12.37	14.00	20.50	22.00	22.00		
802.11ax-HE40 MCS0	64	5320	FuL	19.50	19.86	20.50	22.50	22.50	22.50	100.00
		FuL	19.50	19.86	20.50	22.50	22.50	22.50		
		2607	12.00	10.29	12.00	15.00	17.00	17.00		
802.11ax-HE80 MCS0	58	5290	FuL	19.50	19.88	20.50	22.50	22.50	22.50	100.00
		FuL	19.50	19.88	20.50	22.50	22.50	22.50		
		2607	18.00	16.14	18.00	21.00	21.00	21.00		
802.11ax-EHT20 MCS0	56	5280	FuL	19.50	20.03	20.50	22.50	22.50	22.50	100.00
		FuL	19.50	20.03	20.50	22.50	22.50	22.50		
		2607	19.50	17.64	19.50	22.50	22.50	22.50		
802.11ax-EHT40 MCS0	64	5320	FuL	19.50	19.82	20.50	22.50	22.50	22.50	100.00
		FuL	19.50	19.82	20.50	22.50	22.50	22.50		
		2607	19.50	19.82	20.50	22.50	22.50	22.50		
802.11ax-EHT80 MCS0	58	5290	FuL	19.50	18.59	19.50	22.50	22.50	22.50	100.00
		FuL	19.50	19.81	20.50	22.50	22.50	22.50		



Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a (Mbps)	100	5500	Full	18.00	19.41	20.50	21.00	18.00	19.99	20.50	99.18	
	116	5560	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	99.18	
	132	5660	Full	18.00	19.74	20.50	21.00	18.00	19.99	20.50	99.18	
	140	5700	Full	18.00	19.68	20.50	21.00	18.00	19.99	20.50	99.18	
802.11n-HT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.72	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	19.62	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	19.57	20.50	21.00	18.00	19.99	20.50	100.00	
802.11n-VHT40 MCS0	102	5510	Full	Not Required	18.00	18.75	20.50	21.00	Not Required	18.00	19.99	100.00
	110	5550	Full	Not Required	18.00	19.99	20.50	21.00	Not Required	18.00	19.99	100.00
	134	5670	Full	Not Required	18.00	20.00	20.50	21.00	Not Required	18.00	19.99	100.00
	140	5700	Full	Not Required	18.00	19.25	20.50	21.00	Not Required	18.00	19.99	100.00
802.11ac-VHT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.62	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	19.43	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	19.53	20.50	21.00	18.00	19.99	20.50	100.00	
802.11ac-VHT40 MCS0	102	5510	Full	18.00	18.71	20.50	21.00	18.00	19.99	20.50	100.00	
	110	5550	Full	18.00	19.93	20.50	21.00	18.00	19.99	20.50	100.00	
	134	5670	Full	18.00	19.96	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	18.71	20.50	21.00	18.00	19.99	20.50	100.00	
802.11ac-VHT80 MCS0	106	5530	Full	16.20	18.00	18.71	20.50	19.45	21.00	100.00	100.00	
	100	5500	Full	18.00	20.08	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	11.50	12.96	14.50	15.00	11.50	12.96	14.50	100.00	
	132	5660	Full	14.00	12.87	14.50	15.00	14.00	12.87	14.50	100.00	
802.11ax-HE20 MCS0	100	5500	Full	18.00	19.77	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.92	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	19.79	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	19.77	20.50	21.00	18.00	19.99	20.50	100.00	
802.11ax-HE40 MCS0	102	5510	Full	18.00	18.77	20.50	21.00	18.00	19.99	20.50	100.00	
	110	5550	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	134	5670	Full	18.00	20.04	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	18.73	20.50	21.00	18.00	19.99	20.50	100.00	
802.11ax-HE80 MCS0	106	5530	Full	Not Required	18.00	20.11	20.50	21.00	Not Required	18.00	19.99	100.00
	100	5500	Full	18.00	20.08	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	11.50	12.96	14.50	15.00	11.50	12.96	14.50	100.00	
	132	5660	Full	14.00	12.87	14.50	15.00	14.00	12.87	14.50	100.00	
802.11be-EHT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.97	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	19.86	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	19.86	20.50	21.00	18.00	19.99	20.50	100.00	
802.11be-EHT40 MCS0	102	5510	Full	18.00	18.82	20.50	21.00	18.00	19.99	20.50	100.00	
	110	5550	Full	18.00	20.05	20.50	21.00	18.00	19.99	20.50	100.00	
	134	5670	Full	18.00	20.05	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	18.76	20.50	21.00	18.00	19.99	20.50	100.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 6		Ant 5+6		Duty Cycle %		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
802.11a (Mbps)	100	5500	Full	18.00	18.83	20.50	21.00	18.00	18.87	20.50	99.18	
	116	5560	Full	18.00	18.87	20.50	21.00	18.00	18.84	20.50	99.18	
	132	5660	Full	18.00	18.84	20.50	21.00	18.00	18.83	20.50	99.18	
	140	5700	Full	18.00	18.83	20.50	21.00	18.00	18.83	20.50	99.18	
802.11n-HT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
802.11n-VHT40 MCS0	102	5510	Full	Not Required	18.00	18.57	20.50	21.00	Not Required	18.00	19.99	100.00
	110	5550	Full	Not Required	18.00	19.95	20.50	21.00	Not Required	18.00	19.99	100.00
	134	5670	Full	Not Required	18.00	19.45	20.50	21.00	Not Required	18.00	19.99	100.00
	140	5700	Full	Not Required	18.00	19.30	20.50	21.00	Not Required	18.00	19.99	100.00
802.11ac-VHT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.07	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	18.99	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	18.84	20.50	21.00	18.00	19.99	20.50	100.00	
802.11ac-VHT40 MCS0	102	5510	Full	18.00	18.85	20.50	21.00	18.00	18.85	20.50	100.00	
	110	5550	Full	18.00	19.92	20.50	21.00	18.00	19.92	20.50	100.00	
	134	5670	Full	18.00	19.42	20.50	21.00	18.00	19.42	20.50	100.00	
	140	5700	Full	18.00	18.85	20.50	21.00	18.00	19.92	20.50	100.00	
802.11ac-VHT80 MCS0	106	5530	Full	16.90	18.00	18.52	20.50	19.75	21.00	100.00	100.00	
	100	5500	Full	18.00	19.33	20.50	21.00	18.00	19.33	20.50	100.00	
	116	5560	Full	11.90	9.77	11.50	14.50	11.90	9.77	11.50	100.00	
	132	5660	Full	14.50	12.11	14.00	17.00	14.50	12.11	14.00	100.00	
802.11ax-HE20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	132	5660	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
802.11ax-HE40 MCS0	102	5510	Full	18.00	18.89	20.50	21.00	18.00	18.89	20.50	100.00	
	110	5550	Full	18.00	19.97	20.50	21.00	18.00	19.97	20.50	100.00	
	134	5670	Full	18.00	19.97	20.50	21.00	18.00	19.97	20.50	100.00	
	140	5700	Full	18.00	18.54	20.50	21.00	18.00	18.54	20.50	100.00	
802.11ax-HE80 MCS0	106	5530	Full	Not Required	18.00	19.38	20.50	21.00	Not Required	18.00	19.99	100.00
	100	5500	Full	18.00	19.38	20.50	21.00	18.00	19.38	20.50	100.00	
	116	5560	Full	11.50	9.93	11.50	14.50	11.50	9.93	11.50	100.00	
	132	5660	Full	14.50	12.23	14.00	17.00	14.50	12.23	14.00	100.00	
802.11be-EHT20 MCS0	100	5500	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	116	5560	Full	18.00	19.16	20.50	21.00	18.00	19.16	20.50	100.00	
	132	5660	Full	18.00	19.13	20.50	21.00	18.00	19.13	20.50	100.00	
	140	5700	Full	18.00	18.99	20.50	21.00	18.00	18.99	20.50	100.00	
802.11be-EHT40 MCS0	102	5510	Full	18.00	18.91	20.50	21.00	18.00	18.91	20.50	100.00	
	110	5550	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	134	5670	Full	18.00	19.99	20.50	21.00	18.00	19.99	20.50	100.00	
	140	5700	Full	18.00	18.96	20.50	21.00	18.00	18.96	20.50	100.00	

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 5+4		Duty Cycle %	
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11a (Mbps)	149	5745	Full	18.00	19.66	21.00	21.00	18.00	19.66	21.00	99.18
	157	5785	Full	18.00	19.58	21.00	21.00	18.00	19.58	21.00	99.18
	165	5825	Full	18.00	19.61	21.00	21.00	18.00	19.61	21.00	99.18
	173	5865	Full	18.00	19.66	21.0					



<WLAN 2.4GHz FCC> - Receiver Off Simultaneous Power

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Duty Cycle %

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Duty Cycle %

<WLAN 5GHz FCC> - Receiver Off Simultaneous Power

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Duty Cycle %

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Duty Cycle %

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Duty Cycle %

Table with columns: Mode, Channel, Frequency (MHz), Ru Config, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Average power (dBm), Turn-Up Limit, Duty Cycle %



Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5900	Full	18.00	18.41	20.50	21.00			99.18
	116	5980	Full	18.00	19.96	20.50	21.00			
	132	5960	Full	18.00	19.74	20.50	21.00			
	140	5700	Full	18.00	19.69	20.50	21.00			
802.11a-HT20 MCS0	100	5900	Full	18.00	19.75	20.50	21.00			100.00
	116	5980	Full	18.00	19.75	20.50	21.00			
	132	5960	Full	18.00	19.62	20.50	21.00			
	140	5700	Full	18.00	19.67	20.50	21.00			
802.11a-VHT40 MCS0	102	5510	Full	18.00	18.75	20.50	21.00			100.00
	110	5550	Full	18.00	19.99	20.50	21.00			
	134	5670	Full	18.00	20.00	20.50	21.00			
	100	5900	Full	18.00	19.28	20.50	21.00			
802.11ac-VHT20 MCS0	116	5980	Full	18.00	19.92	20.50	21.00			100.00
	132	5960	Full	18.00	19.43	20.50	21.00			
	140	5700	Full	18.00	19.53	20.50	21.00			
	102	5510	Full	18.00	18.71	20.50	21.00			
802.11ac-VHT40 MCS0	110	5550	Full	18.00	19.93	20.50	21.00			100.00
	134	5670	Full	18.00	19.96	20.50	21.00			
	106	5530	Full	18.00	18.71	20.50	19.45			
	100	5900	Full	18.00	20.08	20.50	21.00			
802.11ac-HE20 MCS0	100	5900	Full	18.00	20.08	20.50	21.00			100.00
			260	11.50	10.56	12.00	15.00			
			5237	14.00	12.87	14.00	17.50			
			10653	17.00	16.28	18.00	20.50			
	116	5980	Full	18.00	19.92	20.50	21.00			
	132	5960	Full	18.00	19.79	20.50	21.00			
	140	5700	Full	18.00	19.77	20.50	21.00			
			268	12.00	10.04	12.00	15.00			
			5249	14.00	12.95	14.00	17.50			
			10654	17.00	16.18	18.00	20.50			
			156	18.00	18.99	20.50	21.00			
			110	5550	Full	18.00	19.99	20.50	21.00	
134	5670	Full	18.00	20.04	20.50	21.00				
106	5530	Full	18.00	18.73	20.50	21.00				
100	5900	Full	18.00	20.11	20.50	21.00				
		260	11.50	10.67	12.00	15.00				
		5237	14.50	12.98	14.50	17.50				
		10653	17.00	16.03	18.00	21.00				
116	5980	Full	18.00	20.03	20.50	21.00				
132	5960	Full	18.00	19.97	20.50	21.00				
140	5700	Full	18.00	19.81	20.50	21.00				
		268	12.00	10.19	12.00	15.00				
		5240	14.50	13.06	15.00	17.50				
		10654	17.50	16.29	18.00	21.00				
102	5510	Full	18.00	18.82	20.50	21.00				
110	5550	Full	18.00	20.05	20.50	21.00				
134	5670	Full	18.00	20.05	20.50	21.00				

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 4		Ant 6/4		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	149	5745	Full	18.50	19.65	21.00	21.50			99.18
	157	5785	Full	18.50	19.58	21.00	21.50			
	168	5625	Full	18.50	19.61	21.00	21.50			
	149	5745	Full	18.50	19.66	21.00	21.50			
802.11a-HT20 MCS0	149	5745	Full	18.50	19.56	21.00	21.50			100.00
	157	5785	Full	18.50	19.50	21.00	21.50			
	168	5625	Full	18.50	19.69	21.00	21.50			
	151	5755	Full	18.50	20.21	21.00	21.50			
802.11a-VHT40 MCS0	159	5795	Full	18.50	20.20	21.00	21.50			100.00
	149	5745	Full	18.50	19.61	21.00	21.50			
	157	5785	Full	18.50	19.50	21.00	21.50			
	165	5625	Full	18.50	19.63	21.00	21.50			
802.11ac-VHT40 MCS0	151	5755	Full	18.50	20.17	21.00	21.50			100.00
	159	5795	Full	18.50	20.16	21.00	21.50			
	155	5775	Full	18.50	19.89	21.00	19.81			
	149	5745	Full	18.50	19.79	21.00	21.50			
802.11ac-HE20 MCS0	149	5745	Full	18.50	19.79	21.00	21.50			100.00
			260	12.00	9.88	11.50	15.00			
			5237	14.00	12.76	14.00	17.50			
			10653	17.00	15.93	17.00	20.50			
	157	5785	Full	18.50	19.84	21.00	21.50			
	165	5625	Full	18.50	19.78	21.00	21.50			
	155	5775	Full	18.50	19.46	21.00	21.50			
			5240	14.00	12.52	14.00	17.00			
			10654	17.00	15.63	17.00	20.50			
	151	5755	Full	18.50	20.28	21.00	21.50			
	159	5795	Full	18.50	20.22	21.00	21.50			
	155	5775	Full	18.50	20.12	21.00	21.50			
149	5745	Full	18.50	19.87	21.00	21.50				
		260	12.00	10.01	12.00	15.00				
		5237	14.50	12.86	14.50	17.50				
		10653	17.50	15.98	18.00	20.50				
157	5785	Full	18.50	19.92	21.00	21.50				
		268	12.00	9.99	11.50	15.00				
		5240	14.50	12.48	14.50	17.50				
		10654	17.50	15.76	17.00	20.50				
151	5755	Full	18.50	20.34	21.00	21.50				
159	5795	Full	18.50	20.38	21.00	21.50				

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 6		Ant 6/6		Duty Cycle %
				Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
802.11a 6Mbps	100	5900	Full	18.00		18.00		21.50		99.18
	116	5980	Full	18.00		18.00		21.50		
	132	5960	Full	18.00		18.00		21.50		
	140	5700	Full	18.00		18.00		21.50		
802.11a-HT20 MCS0	100	5900	Full	18.00		18.00		21.50		100.00
	116	5980	Full	18.00		18.00		21.50		
	132	5960	Full	18.00		18.00		21.50		
	140	5700	Full	18.00		18.00		21.50		
802.11a-VHT40 MCS0	102	5510	Full	18.00		18.00		21.50		100.00
	110	5550	Full	18.00		18.00		21.50		
	134	5670	Full	18.00		18.00		21.50		
	100	5900	Full	18.00		18.00		21.50		
802.11ac-VHT20 MCS0	116	5980	Full	18.00		18.00		21.50		100.00
	132	5960	Full	18.00		18.00		21.50		
	140	5700	Full	18.00		18.00		21.50		
	102	5510	Full	18.00		18.00		21.50		
802.11ac-VHT40 MCS0	110	5550	Full	18.00		18.00		21.50		100.00
	134	5670	Full	18.00		18.00		21.50		
	106	5530	Full	16.90	18.00	18.02	18.50	19.75	21.50	
	100	5900	Full	18.00		18.00		21.50		
802.11ac-HE20 MCS0	100	5900	Full	18.00		18.00		21.50		100.00
			260	11.50		11.50		14.50		
			5237	14.00		14.00		17.00		
			10653	17.00		17.00		20.50		
	116	5980	Full	18.00		18.00		21.50		
	132	5960	Full	18.00		18.00		21.50		
	140	5700	Full	18.00		18.00		21.50		
			268	11.50		11.50		14.50		
			5240	14.00		14.00		17.00		
			10654	17.00		17.00		20.50		
	102	5510	Full	18.00		18.00		21.50		
	110	5550	Full	18.00		18.00		21.50		
134	5670	Full	18.00		18.00		21.50			
106	5530	Full	18.00		18.00		21.50			
100	5900	Full	18.00		18.00		21.50			
		260	11.50		11.50		14.50			
		5237	14.50		14.00		17.50			
		10653	17.00		17.00		20.50			
116	5980	Full	18.00		18.00		21.50			
132	5960	Full	18.00		18.00		21.50			
140	5700	Full	18.00		18.00		21.50			
		268	11.50		11.00		14.50			
		5240	14.00		14.00		17.00			
		10654	17.00		17.00		21.00			
102	5510	Full	18.00		18.00		21.50			
134	5670	Full	18.00		18.00		21.50			

Mode	Channel	Frequency (MHz)	Ru Config	Ant 5		Ant 6		Ant 6/6		D
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<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4		Average power (dBm)_Ant 5+4	
			1Mbps	tune-up limit	1Mbps	tune-up limit	1Mbps	tune-up limit
BR / EDR	CH 00	2402	13.60	15.00	12.50	14.00	16.25	18.00
	CH 39	2441	13.60	17.00	13.20	15.00	17.67	19.00
	CH 75	2480	13.50	15.00	11.10	13.00	15.67	17.00

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Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6		Average power (dBm)_Ant 5+6	
			1Mbps	tune-up limit	1Mbps	tune-up limit	1Mbps	tune-up limit
BR / EDR	CH 00	2402	13.80	15.00	11.90	13.50	15.90	17.50
	CH 39	2441	13.80	17.00	12.10	13.80	17.20	19.00
	CH 75	2480	13.80	15.00	9.20	11.00	15.17	17.00

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Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4		Average power (dBm)_Ant 5+4	
			2Mbps	tune-up limit	2Mbps	tune-up limit	2Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	10.00	12.00	13.54	15.00
	CH 39	2441	13.30	15.00	10.80	13.00	15.24	17.00
	CH 75	2480	11.30	13.00	9.40	10.00	13.10	15.00

<Bluetooth FCC>

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6		Average power (dBm)_Ant 5+6	
			2Mbps	tune-up limit	2Mbps	tune-up limit	2Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	9.40	11.00	13.28	15.00
	CH 39	2441	13.30	15.00	10.50	12.00	15.13	17.00
	CH 75	2480	11.30	13.00	9.20	9.00	12.50	14.00

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Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4		Average power (dBm)_Ant 5+4	
			3Mbps	tune-up limit	3Mbps	tune-up limit	3Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	10.00	12.00	13.54	15.00
	CH 39	2441	13.30	15.00	10.80	13.00	15.24	17.00
	CH 75	2480	11.30	13.00	9.40	10.00	13.10	15.00

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Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6		Average power (dBm)_Ant 5+6	
			3Mbps	tune-up limit	3Mbps	tune-up limit	3Mbps	tune-up limit
BR / EDR	CH 00	2402	11.00	13.00	9.00	11.00	13.12	15.00
	CH 39	2441	13.30	15.00	10.50	12.00	15.13	17.00
	CH 75	2480	11.30	13.00	9.20	9.00	12.50	14.00

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Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4	
			1Mbps	2Mbps	1Mbps	2Mbps
LE	CH 00	2402	6.10	6.20	5.40	5.50
	CH 19	2440	7.70	7.80	5.70	5.80
	CH 39	2480	6.30	6.40	3.80	3.90
	Tune-up Limit		8	8	7	7

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6	
			1Mbps	2Mbps	1Mbps	2Mbps
LE	CH 00	2402	6.10	6.20	4.70	4.80
	CH 19	2440	7.70	7.80	4.80	4.90
	CH 39	2480	6.30	6.40	2.70	2.80
	Tune-up Limit		8	8	6	6

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 4	
			1250Kbps	5000Kbps	1250Kbps	5000Kbps
LE	CH 00	2402	6.10	6.00	5.50	5.40
	CH 19	2440	7.70	7.70	5.50	5.70
	CH 39	2480	6.50	6.40	3.90	3.80
	Tune-up Limit		8	8	7	7

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)_Ant 5		Average power (dBm)_Ant 6	
			1250Kbps	5000Kbps	1250Kbps	5000Kbps
LE	CH 00	2402	6.10	6.00	4.60	4.70
	CH 19	2440	7.70	7.70	4.70	4.80
	CH 39	2480	6.50	6.40	1.90	2.00
	Tune-up Limit		8	8	6	6