

LTE Band 25_Ant 0											
SV (MHz)	Modulation	RB Size	RB Offset	Power Cb (Frac)	Power Cb (Frac)	Power Cb (Frac)	Time Slot (MHz)	APN (dB)			
Frequency (MHz)											
20	QPSK	1	0	20.42	20.50	20.40	21.3	0			
20	QPSK	1	1	20.54	20.62	20.50					
20	QPSK	1	99	20.40	20.52	20.30					
20	QPSK	50	0	20.42	20.44	20.30	21.3	0			
20	QPSK	50	1	20.44	20.46	20.30					
20	QPSK	50	99	20.36	20.44	20.30					
20	QPSK	100	0	20.40	20.41	20.30	21.3	0			
20	QPSK	100	1	20.42	20.43	20.30					
20	QPSK	100	99	20.37	20.40	20.30					
20	QPSK	1	45	20.38	20.45	20.30	21.3	0			
20	QPSK	1	95	20.37	20.40	20.30					
20	QPSK	1	99	20.40	20.43	20.30					
20	QPSK	50	24	20.37	20.41	20.30	21.3	0			
20	QPSK	50	50	20.37	20.43	20.30					
20	QPSK	50	99	20.40	20.45	20.30					
20	QPSK	1	0	20.42	20.48	20.30	21.3	0			
20	QPSK	1	45	20.40	20.43	20.30					
20	QPSK	1	99	20.40	20.45	20.30					
20	QPSK	50	0	20.40	20.41	20.30	21.3	0			
20	QPSK	50	24	20.39	20.40	20.30					
20	QPSK	50	99	20.38	20.41	20.30					
20	QPSK	100	0	20.38	20.40	20.30	21.3	0			
20	QPSK	100	1	20.39	20.40	20.30					
20	QPSK	100	99	20.38	20.40	20.30					
20	QPSK	1	0	19.92	19.96	19.93	20	1.3			
20	QPSK	1	99	19.92	19.96	19.93					
20	QPSK	1	99	19.97	19.97	19.95					
20	QPSK	50	1	19.98	19.98	19.95	20	1.3			
20	QPSK	50	99	19.98	19.98	19.95					
20	QPSK	50	99	19.98	19.98	19.95					
20	QPSK	100	0	19.98	19.98	19.94	20	1.3			
20	QPSK	100	1	19.98	19.98	19.94					
20	QPSK	100	99	19.98	19.98	19.94					
Channel											
1815.00											

LTE Band 66_Ant 0														
RF BWP	Modulation	RB Size	RB Offset	Power Limit Ch./Freq.	Power Limit Ch./Freq.	Power Limit Ch./Freq.	Transmit Power (mW)	APR3 (dB)						
Frequency BMS														
Channel														
30	QPSK	1	0	19.50	19.70	19.80	20.7	0	21.4	0				
30	QPSK	1	40	19.81	19.97	19.96								
30	QPSK	1	80	19.84	19.87	19.72								
30	QPSK	30	0	19.53	19.71	19.81	20.7	0	21.4	0				
30	QPSK	30	40	19.59	19.74	19.71								
30	QPSK	30	80	19.40	19.72	19.83								
30	QPSK	100	0	19.57	19.68	19.84	20.7	0	21.4	0				
30	QPSK	100	40	19.50	19.70	19.86								
30	QPSK	100	80	19.45	19.69	19.70								
30	QPSK	1	0	19.53	19.69	19.67	20.7	0	21.4	0				
30	QPSK	1	40	19.48	19.64	19.86								
30	QPSK	1	80	19.54	19.64	19.49								
30	QPSK	30	0	19.54	19.70	19.80	20.7	0	21.4	0				
30	QPSK	30	40	19.25	19.62	19.89								
30	QPSK	30	80	19.54	19.64	19.49								
30	QPSK	100	0	19.48	19.71	19.84	20.7	0	21.4	0				
30	QPSK	100	40	19.57	19.66	19.61								
30	QPSK	100	80	19.67	19.70	19.63								
30	QPSK	30	0	19.45	19.68	19.86	20.7	0	21.4	0				
30	QPSK	30	40	19.55	19.63	19.89								
30	QPSK	30	80	19.53	19.71	19.76								
30	QPSK	100	0	19.47	19.69	19.76	20.7	0	21.4	0				
30	QPSK	100	40	19.52	19.64	19.74								
30	QPSK	100	80	19.66	19.64	19.73								
30	QPSK	1	0	19.62	19.64	19.74	20	0.7	21.4	0				
30	QPSK	1	40	19.66	19.64	19.73								
30	QPSK	1	80	19.63	19.68	19.82								
30	QPSK	30	0	19.58	19.65	19.80	20	0.7	21.4	0				
30	QPSK	30	40	19.68	19.63	19.87								
30	QPSK	30	80	19.63	19.68	19.86								
30	QPSK	100	0	19.66	19.66	19.74	20	0.7	21.4	0				
30	QPSK	100	40	19.62	19.66	19.74								
30	QPSK	100	80	19.62	19.66	19.74								
Channel														
Frequency BMS														
15	QPSK	1	0	19.72	19.71	19.70	20.7	0	21.4	0				
15	QPSK	1	40	19.74	19.70	19.74								
15	QPSK	1	74	19.62	19.63	19.62								
15	QPSK	30	0	19.70	19.60	19.70	20.7	0	21.4	0				
15	QPSK	30	40	19.72	19.62	19.73								
15	QPSK	30	80	19.67	19.71	19.69								
15	QPSK	75	0	19.63	19.64	19.63	20.7	0	21.4	0				
15	QPSK	75	40	19.71	19.70	19.68								
15	QPSK	75	80	19.64	19.63	19.64								
15	QPSK	1	0	19.64	19.63	19.64	20.7	0	21.4	0				
15	QPSK	1	40	19.67	19.69	19.67								
15	QPSK	1	80	19.66	19.69	19.67								
15	QPSK	30	0	19.66	19.63	19.67	20.7	0	21.4	0				
15	QPSK	30	40	19.70	19.70	19.71								
15	QPSK	30	80	19.69	19.69	19.67								
15	QPSK	75	0	19.67	19.69	19.67	20.7	0	21.4	0				
15	QPSK	75	40	19.70	19.70	19.71								
15	QPSK	75	80	19.69	19.69	19.67								
15	QPSK	1	0	19.70	19.69	19.72	20.7	0	21.4	0				
15	QPSK	1	40	19.61	19.63	19.67								
15	QPSK	1	74	19.71	19.69	19.68								
15	QPSK	30	0	19.68	19.63	19.67	20.7	0	21.4	0				
15	QPSK	30	40	19.61	19.63	19.67								
15	QPSK	30	80	19.67	19.69	19.68								
15	QPSK	75	0	19.68	19.67	19.71	20	0.7	21.4	0				
15	QPSK	75	40	19.62	19.64	19.66								
15	QPSK	75	80	19.63	19.69	19.69								
15	QPSK	1	0	19.64	19.67	19.67	20	0.7	21.4	0				
15	QPSK	1	74	19.64	19.67	19.67								
15	QPSK	1	80	19.63	19.63	19.64								
15	QPSK	30	0	19.66	19.63	19.66	20	0.7	21.4	0				
15	QPSK	30	40	19.66	19.63	19.67								
15	QPSK	30	80	19.66	19.63	19.67								
15	QPSK	75	0	19.66	19.63	19.66	20	0.7	21.4	0				
15	QPSK	75	40	19.66	19.63	19.66								
15	QPSK	75	80	19.66	19.63	19.66								
Channel														
Frequency BMS														
5	QPSK	1	0	19.68	19.72	19.80	20.7	0	21.4	0				
5	QPSK	1	12	19.73	19.71	19.76								
5	QPSK	1	24	19.67	19.68	19.66								
5	QPSK	12	0	19.68	19.70	19.73	20.7	0	21.4	0				
5	QPSK	12	7	19.69	19.72	19.75								
5	QPSK	12	11	19.67	19.69	19.70								
5	QPSK	25	0	19.65	19.68	19.80	20.7	0	21.4	0				
5	QPSK	25	6	19.73	19.68	19.71								
5	QPSK	25	10	19.67	19.65	19.69								
5	QPSK	12	0	19.62	19.62	19.63	20.7	0	21.4	0				
5	QPSK	12	6	19.67	19.65	19.68								
5	QPSK	12	11	19.61	19.63	19.63								
5	QPSK	25	0	19.61	19.71	19.71	20.7	0	21.4	0				
5	QPSK	25	6	19.68	19.68	19.68								
5	QPSK	25	10	19.62	19.64	19.63								
5	QPSK	1	0	19.63	19.68	19.67	20.7	0	21.4	0				
5	QPSK	1	12	19.64	19.63	19.63								
5	QPSK	1	24	19.61	19.68	19.69								
5	QPSK	12	0	19.68	19.68	19.68	20.7	0	21.4	0				
5	QPSK	12	7	19.62	19.62	19.63								
5	QPSK	12	11	19.68	19.68	19.68								
5	QPSK	25	0	19.65	19.68	19.70	20.7	0	21.4	0				
5	QPSK	25	6	19.61	19.68	19.69								
5	QPSK	25	10	19.61	19.69	19.69								
5	QPSK	1	0	19.63	19.68	19.67	20	0.7	21.4	0				
5	QPSK	1	12	19.60	19.63	19.63								
5	QPSK	1	24	19.62	19.65	19.65								
5	QPSK	12	0	19.61	19.61	19.61	20.7	0	21.4	0				
5	QPSK	12	7	19.61	19.62	19.61								
5	QPSK	12	11	19.62	19.62	19.62								
5	QPSK	25	0	19.61	19.67	19.67	20.7	0	21.4	0				
5	QPSK	25	6	19.61	19.67	19.67								
5	QPSK	25	10	19.61	19.67	19.67								
5	QPSK	1	0	19.68	19.67	19.68	20	0.7	21.4	0				
5	QPSK	1	12	19.64	19.67	19.67								
5	QPSK	1	24	19.64	19.67	19.67								
5	QPSK	12	0	19.63	19.68	19.65	20.7	0	21.4	0				
5	QPSK	12	7	19.64	19.68	19.65								
5	QPSK	12	11	19.63	19.68	19.65								
5	QPSK	25	0	19.64	19.68	19.65	20.7	0	21.4	0				
5	QPSK	25	6	19.64	19.68	19.65								
5	QPSK	25	10	19.64	19.68	19.65								
5	QPSK	1	0	19.67	19.67	19.67	20.7	0	21.4	0				
5	QPSK	1	12	19.67	19.67	19.67								
5	QPSK	1	24	19.67	19.67	19.67								
5	QPSK	12	0	19.69	19.69	19.69	20.7	0	21.4	0				
5	QPSK	12	7	19.69	19.69	19.69								
5	QPSK	12	11	19.69	19.69	19.69								
5	QPSK	25	0	19.69	19.69	19.69	20.7	0	21.4	0				
5	QPSK	25	6	19.69	19.69	19.69								
5	QPSK	25	10	19.69	19.69	19.69								
5	QPSK	1	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	1	12	19.71	19.68	19.70								
5	QPSK	1	24	19.70	19.68	19.70								
5	QPSK	12	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	12	7	19.70	19.68	19.70								
5	QPSK	12	11	19.70	19.68	19.70								
5	QPSK	25	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	25	6	19.70	19.68	19.70								
5	QPSK	25	10	19.70	19.68	19.70								
5	QPSK	1	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	1	12	19.70	19.68	19.70								
5	QPSK	1	24	19.70	19.68	19.70								
5	QPSK	12	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	12	7	19.70	19.68	19.70								
5	QPSK	12	11	19.70	19.68	19.70								
5	QPSK	25	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	25	6	19.70	19.68	19.70								
5	QPSK	25	10	19.70	19.68	19.70								
5	QPSK	1	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	1	12	19.70	19.68	19.70								
5	QPSK	1	24	19.70	19.68	19.70								
5	QPSK	12	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	12	7	19.70	19.68	19.70								
5	QPSK	12	11	19.70	19.68	19.70								
5	QPSK	25	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	25	6	19.70	19.68	19.70								
5	QPSK	25	10	19.70	19.68	19.70								
5	QPSK	1	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	1	12	19.70	19.68	19.70								
5	QPSK	1	24	19.70	19.68	19.70								
5	QPSK	12	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	12	7	19.70	19.68	19.70								
5	QPSK	12	11	19.70	19.68	19.70								
5	QPSK	25	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	25	6	19.70	19.68	19.70								
5	QPSK	25	10	19.70	19.68	19.70								
5	QPSK	1	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK	1	12	19.70	19.68	19.70								
5	QPSK	1	24	19.70	19.68	19.70								
5	QPSK	12	0	19.70	19.68	19.70	20.7	0	21.4	0				
5	QPSK													



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.		Power High Ch. / Freq.		Tune-up limit (dBm)	MPR (dB)
				372000	376000	376000	380000		
Channel				Frequency (MHz)		Power (dBm)			
20	PV2 BPSK	1	1	19.18	19.37	19.37	19.24	20.5	0.0
20	PV2 BPSK	1	53	19.27	19.40	19.26	19.20		
20	PV2 BPSK	1	104	19.18	19.39	19.39	19.27		
20	PV2 BPSK	50	0	19.21	19.35	19.35	19.32	20.5	0.0
20	PV2 BPSK	50	28	19.26	19.38	19.19	19.19	20.5	0.0
20	PV2 BPSK	50	56	19.29	19.34	19.22	19.25	20.5	0.0
20	PV2 BPSK	100	0	19.22	19.36	19.36	19.19	20.5	0.0
Channel				Frequency (MHz)		Power (dBm)			
20	QPSK	1	53	19.27	19.31	19.16	19.18	20.5	0.0
20	QPSK	1	104	19.30	19.32	19.20	19.20	20.5	0.0
20	QPSK	50	0	19.19	19.32	19.26	19.26	20.5	0.0
20	QPSK	50	28	19.20	19.36	19.32	19.32	20.5	0.0
20	QPSK	50	56	19.16	19.32	19.31	19.31	20.5	0.0
20	QPSK	100	0	19.22	19.43	19.23	19.23	20.5	0.0
20	16QAM	1	1	19.23	19.43	19.30	19.30	20.5	0.0
20	64QAM	1	1	19.18	19.31	19.29	19.29	20.5	0.0
20	256QAM	1	1	19.27	19.32	19.19	19.19	20.5	0.0
Channel				Frequency (MHz)		Power (dBm)		Tune-up limit (dBm)	
15	QPSK	1	1	19.24	19.40	19.40	19.28	20.5	0.0
Channel				Frequency (MHz)		Power (dBm)		Tune-up limit (dBm)	
10	QPSK	1	1	19.30	19.43	19.28	19.28	20.5	0.0
Channel				Frequency (MHz)		Power (dBm)		Tune-up limit (dBm)	
5	QPSK	1	1	19.21	19.42	19.22	19.25	20.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.		Power Middle Ch. / Freq.		Power High Ch. / Freq.	
				372000	376000	376000	380000	380000	384000
Channel									
Frequency (MHz)				1800	1800	1800	1800	1800	1800
20	PV2 BPSK	1	1	19.00	19.13	19.13	19.15		
20	PV2 BPSK	1	53	19.07	19.13	19.13	19.05	21.0	0.0
20	PV2 BPSK	1	104	19.00	19.16	19.16	19.10		
20	PV2 BPSK	50	0	19.11	19.15	19.15	19.04	21.0	0.0
20	PV2 BPSK	50	28	19.04	19.12	19.12	19.03	21.0	0.0
20	PV2 BPSK	50	56	19.03	19.07	19.16	19.16	21.0	0.0
20	PV2 BPSK	100	0	19.11	19.09	19.07		21.0	0.0
20	QPSK	1	1	19.12	19.19	19.19	19.13		
20	QPSK	1	53	19.04	19.13	19.13	19.03	21.0	0.0
20	QPSK	1	104	19.08	19.15	19.15	19.12		
20	QPSK	50	0	19.07	19.07	19.07	19.08	21.0	0.0
20	QPSK	50	28	19.05	19.11	19.11	19.10	21.0	0.0
20	QPSK	50	56	19.03	19.08	19.08	19.02	21.0	0.0
20	QPSK	100	0	19.01	19.10	19.10	19.06	21.0	0.0
20	16QAM	1	1	19.07	19.17	19.17	19.14		
20	64QAM	1	1	19.08	19.10	19.10	19.15	21.0	0.0
20	256QAM	1	1	19.40	18.50	18.38	19.15	19.5	1.5
Channel				371500	376000	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1807.5	1800	1800	1802.5	(dBm)	(dB)
10	QPSK	1	1	19.03	19.13	19.13	19.09	21.0	0.0
Channel				371000	376000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1805	1800	1800	1805	(dBm)	(dB)
10	QPSK	1	1	19.00	19.13	19.13	19.07	21.0	0.0
Channel				370500	376000	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1802.5	1800	1800	1802.5	(dBm)	(dB)
5	QPSK	1	1	19.13	19.18	19.18	19.08	21.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power		Power High	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.			
Channel				374000	376000	378000		
Frequency (MHz)				1810	1862.5	1865		
40	PV2 BPSK	1	1	19.27	19.28	19.23	20.5	0.0
40	PV2 BPSK	1	108	19.28	19.29	19.21		
40	PV2 BPSK	1	214	19.28	19.25	19.26		
40	PV2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0
40	PV2 BPSK	108	54	19.27	19.34	19.28	20.5	0.0
40	PV2 BPSK	108	108	19.28	19.32	19.21	20.5	0.0
40	PV2 BPSK	216	0	19.20	19.24	19.27	20.5	0.0
40	QPSK	1	1	19.31	19.45	19.33	20.5	0.0
40	QPSK	1	108	19.16	19.29	19.24		
40	QPSK	1	214	19.24	19.32	19.31		
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0
40	QPSK	108	54	19.28	19.35	19.30	20.5	0.0
40	QPSK	108	108	19.26	19.32	19.21	20.5	0.0
40	QPSK	216	0	19.17	19.33	19.20	20.5	0.0
40	16QAM	1	1	19.23	19.23	19.28	20.5	0.0
40	64QAM	1	1	19.17	19.37	19.25	20.5	0.0
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0
Channel				373500	376000	378500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1807.5	1802.5	1807.5	(dBm)	(dB)
35	QPSK	1	1	19.17	19.23	19.31	20.5	0.0
Channel				373000	376000	380000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1805	1802.5	1800	(dBm)	(dB)
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0
Channel				372500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1802.5	1802.5	1802.5	(dBm)	(dB)
25	QPSK	1	1	19.21	19.28	19.25	20.5	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1800	1802.5	1805	(dBm)	(dB)
20	QPSK	1	1	19.18	19.37	19.29	20.5	0.0
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1802.5	1802.5	1810	(dBm)	(dB)
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1800	1802.5	1810	(dBm)	(dB)
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1802.5	1802.5	1812.5	(dBm)	(dB)
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0



n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				18970	18925	18965			
40	Pi2 BPSK	1	1	19.00	19.18	19.08			
40	Pi2 BPSK	1	108	19.05	19.08	19.15	21.0		0.0
40	Pi2 BPSK	1	214	19.01	19.19	19.08			
40	Pi2 BPSK	108	0	19.12	19.09	19.06	21.0		0.0
40	Pi2 BPSK	108	54	19.07	19.13	19.12	21.0		0.0
40	Pi2 BPSK	108	108	19.06	19.19	19.13	21.0		0.0
40	Pi2 BPSK	216	0	19.05	19.06	19.09			
40	QPSK	1	1	19.14	19.20	19.17			
40	QPSK	1	108	19.09	19.05	19.06	21.0		0.0
40	QPSK	1	214	19.11	19.13	19.16			
40	QPSK	108	0	19.05	19.08	19.03	21.0		0.0
40	QPSK	108	54	19.06	19.14	19.13	21.0		0.0
40	QPSK	108	108	19.03	19.13	19.03	21.0		0.0
40	QPSK	216	0	19.10	19.12	19.06			
40	16QAM	1	1	19.13	19.13	19.05	21.0		0.0
40	16QAM	1	1	19.06	19.06	19.09	21.0		0.0
40	256QAM	1	1	17.75	17.89	17.74	19.5		1.5
Channel									
Frequency (MHz)									
38	QPSK	1	1	19.12	19.14	19.06	21.0		0.0
35	QPSK	1	1	19.12	19.14	19.06	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.02	19.11	19.08	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.10	19.12	19.04	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.13	19.14	19.02	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.10	19.18	19.08	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.09	19.08	19.03	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.06	19.15	19.05	21.0		0.0

n66_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	19.95	19.98	19.95			
40	Pi2 BPSK	1	108	19.89	19.97	19.96	21.0	0.0	
40	Pi2 BPSK	1	214	19.85	19.90	19.88			
40	Pi2 BPSK	108	0	19.86	19.99	19.94	21.0	0.0	
40	Pi2 BPSK	108	54	19.88	20.00	19.98	21.0	0.0	
40	Pi2 BPSK	108	108	19.87	20.03	19.88	21.0	0.0	
40	Pi2 BPSK	216	0	19.91	19.95	19.89	21.0	0.0	
40	QPSK	1	1	20.00	20.05	20.02			
40	QPSK	1	108	19.85	20.02	19.89	21.0	0.0	
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.98	19.88	21.0	0.0	
40	QPSK	108	54	19.86	20.00	19.89	21.0	0.0	
40	QPSK	108	108	19.91	19.97	19.93	21.0	0.0	
40	QPSK	216	0	19.92	20.02	19.87			
40	16QAM	1	1	19.97	20.03	20.00	21.0	0.0	
40	16QAM	1	1	19.92	20.00	20.00	21.0	0.0	
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0	
Channel									
Frequency (MHz)									
38	QPSK	1	1	19.85	19.95	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.93	19.97	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	20.03	19.88	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.99	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.89	21.0	0.0	

n66_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				1730	1745	1760			
40	Pi2 BPSK	1	1	20.11	20.18	20.21			
40	Pi2 BPSK	1	108	20.16	20.20	20.21	21.0		0.0
40	Pi2 BPSK	1	214	20.08	20.18	20.20			
40	Pi2 BPSK	108	0	20.17	20.20	20.23	21.0		0.0
40	Pi2 BPSK	108	54	20.14	20.15	20.21	21.0		0.0
40	Pi2 BPSK	108	108	20.17	20.22	20.19	21.0		0.0
40	Pi2 BPSK	216	0	20.12	20.13	20.19		21.0	0.0
40	QPSK	1	1	20.22	20.28	20.24			
40	QPSK	1	108	20.08	20.21	20.18	21.0		0.0
40	QPSK	1	214	20.13	20.18	20.23			
40	QPSK	108	0	20.10	20.15	20.14	21.0		0.0
40	QPSK	108	54	20.14	20.19	20.18	21.0		0.0
40	QPSK	108	108	20.13	20.17	20.17	21.0		0.0
40	QPSK	216	0	20.11	20.16	20.12			
40	16QAM	1	1	20.09	20.18	20.23	21.0		0.0
40	16QAM	1	1	20.19	20.16	20.13	21.0		0.0
40	256QAM	1	1	19.84	19.96	19.83	19.5		1.5
Channel									
Frequency (MHz)									
38	QPSK	1	1	1727.5	1745	1762.5	21.0		0.0
36	QPSK	1	1	20.07	20.24	20.10	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.17	20.17	20.10	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.07	20.24	20.23	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.19	20.20	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.16	20.16	20.13	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.19	20.16	20.21	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.10	20.18	20.18	21.0		0.0



Reduced Power Mode for Other PA DS16+sim

LTE Band 2_Ant 0											
SW (MHz)	Modulation	RB Size	RB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)
Frequency (MHz)	Modulation	RB Size	RB Offset	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)
20	QPSK	1	0	20.48	20.52	20.54	20.56	20.58	20.60	20.62	20.64
20	QPSK	1	9	20.48	20.52	20.54	20.56	20.58	20.60	20.62	20.64
20	QPSK	1	99	20.48	20.52	20.54	20.56	20.58	20.60	20.62	20.64
20	QPSK	50	0	20.38	20.42	20.44	20.46	20.48	20.50	20.52	20.54
20	QPSK	50	9	20.38	20.42	20.44	20.46	20.48	20.50	20.52	20.54
20	QPSK	50	99	20.38	20.42	20.44	20.46	20.48	20.50	20.52	20.54
20	QPSK	100	0	20.28	20.32	20.34	20.36	20.38	20.40	20.42	20.44
20	QPSK	100	9	20.28	20.32	20.34	20.36	20.38	20.40	20.42	20.44
20	QPSK	100	99	20.28	20.32	20.34	20.36	20.38	20.40	20.42	20.44
20	QPSK	500	0	20.18	20.22	20.24	20.26	20.28	20.30	20.32	20.34
20	QPSK	500	9	20.18	20.22	20.24	20.26	20.28	20.30	20.32	20.34
20	QPSK	500	99	20.18	20.22	20.24	20.26	20.28	20.30	20.32	20.34
20	QPSK	1000	0	20.08	20.12	20.14	20.16	20.18	20.20	20.22	20.24
20	QPSK	1000	9	20.08	20.12	20.14	20.16	20.18	20.20	20.22	20.24
20	QPSK	1000	99	20.08	20.12	20.14	20.16	20.18	20.20	20.22	20.24
20	QPSK	5000	0	19.98	20.02	20.04	20.06	20.08	20.10	20.12	20.14
20	QPSK	5000	9	19.98	20.02	20.04	20.06	20.08	20.10	20.12	20.14
20	QPSK	5000	99	19.98	20.02	20.04	20.06	20.08	20.10	20.12	20.14
20	QPSK	10000	0	19.88	19.92	19.94	19.96	19.98	20.00	20.02	20.04
20	QPSK	10000	9	19.88	19.92	19.94	19.96	19.98	20.00	20.02	20.04
20	QPSK	10000	99	19.88	19.92	19.94	19.96	19.98	20.00	20.02	20.04
20	QPSK	50000	0	19.78	19.82	19.84	19.86	19.88	19.90	19.92	19.94
20	QPSK	50000	9	19.78	19.82	19.84	19.86	19.88	19.90	19.92	19.94
20	QPSK	50000	99	19.78	19.82	19.84	19.86	19.88	19.90	19.92	19.94
20	QPSK	100000	0	19.68	19.72	19.74	19.76	19.78	19.80	19.82	19.84
20	QPSK	100000	9	19.68	19.72	19.74	19.76	19.78	19.80	19.82	19.84
20	QPSK	100000	99	19.68	19.72	19.74	19.76	19.78	19.80	19.82	19.84
20	QPSK	500000	0	19.58	19.62	19.64	19.66	19.68	19.70	19.72	19.74
20	QPSK	500000	9	19.58	19.62	19.64	19.66	19.68	19.70	19.72	19.74
20	QPSK	500000	99	19.58	19.62	19.64	19.66	19.68	19.70	19.72	19.74
20	QPSK	1000000	0	19.48	19.52	19.54	19.56	19.58	19.60	19.62	19.64
20	QPSK	1000000	9	19.48	19.52	19.54	19.56	19.58	19.60	19.62	19.64
20	QPSK	1000000	99	19.48	19.52	19.54	19.56	19.58	19.60	19.62	19.64
20	QPSK	5000000	0	19.38	19.42	19.44	19.46	19.48	19.50	19.52	19.54
20	QPSK	5000000	9	19.38	19.42	19.44	19.46	19.48	19.50	19.52	19.54
20	QPSK	5000000	99	19.38	19.42	19.44	19.46	19.48	19.50	19.52	19.54
20	QPSK	10000000	0	19.28	19.32	19.34	19.36	19.38	19.40	19.42	19.44
20	QPSK	10000000	9	19.28	19.32	19.34	19.36	19.38	19.40	19.42	19.44
20	QPSK	10000000	99	19.28	19.32	19.34	19.36	19.38	19.40	19.42	19.44
20	QPSK	50000000	0	19.18	19.22	19.24	19.26	19.28	19.30	19.32	19.34
20	QPSK	50000000	9	19.18	19.22	19.24	19.26	19.28	19.30	19.32	19.34
20	QPSK	50000000	99	19.18	19.22	19.24	19.26	19.28	19.30	19.32	19.34
20	QPSK	100000000	0	19.08	19.12	19.14	19.16	19.18	19.20	19.22	19.24
20	QPSK	100000000	9	19.08	19.12	19.14	19.16	19.18	19.20	19.22	19.24
20	QPSK	100000000	99	19.08	19.12	19.14	19.16	19.18	19.20	19.22	19.24
20	QPSK	500000000	0	18.98	19.02	19.04	19.06	19.08	19.10	19.12	19.14
20	QPSK	500000000	9	18.98	19.02	19.04	19.06	19.08	19.10	19.12	19.14
20	QPSK	500000000	99	18.98	19.02	19.04	19.06	19.08	19.10	19.12	19.14
20	QPSK	1000000000	0	18.88	18.92	18.94	18.96	18.98	19.00	19.02	19.04
20	QPSK	1000000000	9	18.88	18.92	18.94	18.96	18.98	19.00	19.02	19.04
20	QPSK	1000000000	99	18.88	18.92	18.94	18.96	18.98	19.00	19.02	19.04
20	QPSK	5000000000	0	18.78	18.82	18.84	18.86	18.88	18.90	18.92	18.94
20	QPSK	5000000000	9	18.78	18.82	18.84	18.86	18.88	18.90	18.92	18.94
20	QPSK	5000000000	99	18.78	18.82	18.84	18.86	18.88	18.90	18.92	18.94
20	QPSK	10000000000	0	18.68	18.72	18.74	18.76	18.78	18.80	18.82	18.84
20	QPSK	10000000000	9	18.68	18.72	18.74	18.76	18.78	18.80	18.82	18.84
20	QPSK	10000000000	99	18.68	18.72	18.74	18.76	18.78	18.80	18.82	18.84
20	QPSK	50000000000	0	18.58	18.62	18.64	18.66	18.68	18.70	18.72	18.74
20	QPSK	50000000000	9	18.58	18.62	18.64	18.66	18.68	18.70	18.72	18.74
20	QPSK	50000000000	99	18.58	18.62	18.64	18.66	18.68	18.70	18.72	18.74
20	QPSK	100000000000	0	18.48	18.52	18.54	18.56	18.58	18.60	18.62	18.64
20	QPSK	100000000000	9	18.48	18.52	18.54	18.56	18.58	18.60	18.62	18.64
20	QPSK	100000000000	99	18.48	18.52	18.54	18.56	18.58	18.60	18.62	18.64
20	QPSK	500000000000	0	18.38	18.42	18.44	18.46	18.48	18.50	18.52	18.54
20	QPSK	500000000000	9	18.38	18.42	18.44	18.46	18.48	18.50	18.52	18.54
20	QPSK	500000000000	99	18.38	18.42	18.44	18.46	18.48	18.50	18.52	18.54
20	QPSK	1000000000000	0	18.28	18.32	18.34	18.36	18.38	18.40	18.42	18.44
20	QPSK	1000000000000	9	18.28	18.32	18.34	18.36	18.38	18.40	18.42	18.44
20	QPSK	1000000000000	99	18.28	18.32	18.34	18.36	18.38	18.40	18.42	18.44
20	QPSK	5000000000000	0	18.18	18.22	18.24	18.26	18.28	18.30	18.32	18.34
20	QPSK	5000000000000	9	18.18	18.22	18.24	18.26	18.28	18.30	18.32	18.34
20	QPSK	5000000000000	99	18.18	18.22	18.24	18.26	18.28	18.30	18.32	18.34
20	QPSK	10000000000000	0	18.08	18.12	18.14	18.16	18.18	18.20	18.22	18.24
20	QPSK	10000000000000	9	18.08	18.12	18.14	18.16	18.18	18.20	18.22	18.24
20	QPSK	10000000000000	99	18.08	18.12	18.14	18.16	18.18	18.20	18.22	18.24
20	QPSK	50000000000000	0	17.98	18.02	18.04	18.06	18.08	18.10	18.12	18.14
20	QPSK	50000000000000	9	17.98	18.02	18.04	18.06	18.08	18.10	18.12	18.14
20	QPSK	50000000000000	99	17.98	18.02	18.04	18.06	18.08	18.10	18.12	18.14
20	QPSK	100000000000000	0	17.88	17.92	17.94	17.96	17.98	18.00	18.02	18.04
20	QPSK	100000000000000	9	17.88	17.92	17.94	17.96	17.98	18.00	18.02	18.04
20	QPSK	100000000000000	99	17.88	17.92	17.94	17.96	17.98	18.00	18.02	18.04
20	QPSK	500000000000000	0	17.78	17.82	17.84	17.86	17.88	17.90	17.92	17.94
20	QPSK	500000000000000	9	17.78	17.82	17.84	17.86	17.88	17.90	17.92	17.94
20	QPSK	500000000000000	99	17.78	17.82	17.84	17.86	17.88	17.90	17.92	17.94
20	QPSK	1000000000000000	0	17.68	17.72	17.74	17.76	17.78	17.80	17.82	17.84
20	QPSK	1000000000000000	9	17.68	17.72	17.74	17.76	17.78	17.80	17.82	17.84
20	QPSK	1000000000000000	99	17.68	17.72	17.74	17.76	17.78	17.80	17.82	17.84
20	QPSK	5000000000000000	0	17.58	17.62	17.64	17.66	17.68	17.70	17.72	17.74
20	QPSK	5000000000000000	9	17.58	17.62	17.64	17.66	17.68	17.70	17.72	17.74
20	QPSK	5000000000000000	99	17.58	17.62	17.64	17.66	17.68	17.70	17.72	17.74
20	QPSK	10000000000000000	0	17.48	17.52	17.54	17.56	17.58	17.60	17.62	17.64
20	QPSK	10000000000000000	9	17.48	17.52	17.54	17.56	17.58	17.60	17.62	17.64
20	QPSK	10000000000000000	99	17.48	17.52	17.54	17.56	17.58	17.60	17.62	17.64
20	QPSK	50000000000000000	0	17.38	17.42	17.44	17.46	17.48	17.50	17.52	17.54
20	QPSK	50000000000000000	9	17.38	17.42	17.44	17.46	17.48	17.50	17.52	17.54
20	QPSK	50000000000000000	99	17.38	17.42	17.44	17.46	17.48	17.50	17.52	17.54
20	QPSK	100000000000000000	0	17.28	17.32	17.34	17.36	17.38	17.40	17.42	17.44
20	QPSK	100000000000000000	9	17.28	17.32	17.34	17.36	17.38	17.40	17.42	17.44
20	QPSK	100000000000000000	99	17.28	17.32	17.34	17.36	17.38	17.40	17.42	17.44
20	QPSK	500000000000000000	0	17.18	17.22	17					

LTE Band 25_Ant 0											
BSF (BWP)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Time-use (min)	APR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.42	20.52	20.45	21.3	0			
10	QPSK	1	8	20.42	20.52	20.45		0			
10	QPSK	1	16	20.42	20.52	20.45		0			
10	QPSK	1	24	20.42	20.52	20.45		0			
10	QPSK	50	0	20.42	20.44	20.35	21.3	0			
10	QPSK	50	8	20.42	20.44	20.35		0			
10	QPSK	50	16	20.32	20.34	20.34		0			
10	QPSK	50	24	20.32	20.47	20.37		0			
10	QPSK	100	0	20.40	20.47	20.35	21.3	0			
10	QPSK	100	8	20.40	20.47	20.35		0			
10	QPSK	100	16	20.32	20.32	20.32		0			
10	QPSK	100	24	20.37	20.47	20.37		0			
10	QPSK	50	50	20.37	20.47	20.36	21.3	0			
10	QPSK	50	58	20.37	20.47	20.36		0			
10	QPSK	50	66	20.40	20.49	20.31		0			
10	QPSK	50	74	20.40	20.49	20.36		0			
10	QPSK	50	82	20.42	20.49	20.36	21.3	0			
10	QPSK	50	90	20.40	20.49	20.36		0			
10	QPSK	50	98	20.40	20.49	20.36		0			
10	QPSK	50	106	20.39	20.49	20.33		0			
10	QPSK	50	114	20.39	20.49	20.33	21.3	0			
10	QPSK	50	122	20.39	20.49	20.33		0			
10	QPSK	50	130	20.39	20.49	20.33		0			
10	QPSK	50	138	20.39	20.49	20.33		0			
10	QPSK	50	146	20.40	20.49	20.33	21.3	0			
10	QPSK	50	154	20.40	20.49	20.33		0			
10	QPSK	50	162	20.40	20.49	20.33		0			
10	QPSK	50	170	20.40	20.49	20.33		0			
10	QPSK	50	178	20.40	20.49	20.33	21.3	0			
10	QPSK	50	186	20.40	20.49	20.33		0			
10	QPSK	50	194	20.40	20.49	20.33		0			
10	QPSK	50	202	20.40	20.49	20.33		0			
10	QPSK	50	210	20.40	20.49	20.33	21.3	0			
10	QPSK	50	218	20.40	20.49	20.33		0			
10	QPSK	50	226	20.40	20.49	20.33		0			
10	QPSK	50	234	20.40	20.49	20.33		0			
10	QPSK	50	242	20.42	20.49	20.36	21.3	0			
10	QPSK	50	250	20.42	20.49	20.36		0			
10	QPSK	50	258	20.40	20.49	20.36		0			
10	QPSK	50	266	20.40	20.49	20.36		0			
10	QPSK	50	274	20.40	20.49	20.36	21.3	0			
10	QPSK	50	282	20.40	20.49	20.36		0			
10	QPSK	50	290	20.40	20.49	20.36		0			
10	QPSK	50	298	20.40	20.49	20.36		0			
10	QPSK	50	306	20.40	20.49	20.36	21.3	0			
10	QPSK	50	314	20.40	20.49	20.36		0			
10	QPSK	50	322	20.40	20.49	20.36		0			
10	QPSK	50	330	20.40	20.49	20.36		0			
10	QPSK	50	338	20.42	20.49	20.36	21.3	0			
10	QPSK	50	346	20.42	20.49	20.36		0			
10	QPSK	50	354	20.40	20.49	20.36		0			
10	QPSK	50	362	20.40	20.49	20.36		0			
10	QPSK	50	370	20.40	20.49	20.36	21.3	0			
10	QPSK	50	378	20.40	20.49	20.36		0			
10	QPSK	50	386	20.40	20.49	20.36		0			
10	QPSK	50	394	20.40	20.49	20.36		0			
10	QPSK	50	402	20.40	20.49	20.36	21.3	0			
10	QPSK	50	410	20.40	20.49	20.36		0			
10	QPSK	50	418	20.40	20.49	20.36		0			
10	QPSK	50	426	20.40	20.49	20.36		0			
10	QPSK	50	434	20.42	20.49	20.36	21.3	0			
10	QPSK	50	442	20.42	20.49	20.36		0			
10	QPSK	50	450	20.40	20.49	20.36		0			
10	QPSK	50	458	20.40	20.49	20.36		0			
10	QPSK	50	466	20.40	20.49	20.36	21.3	0			
10	QPSK	50	474	20.40	20.49	20.36		0			
10	QPSK	50	482	20.40	20.49	20.36		0			
10	QPSK	50	490	20.40	20.49	20.36		0			
10	QPSK	50	498	20.40	20.49	20.36	21.3	0			
10	QPSK	50	506	20.40	20.49	20.36		0			
10	QPSK	50	514	20.40	20.49	20.36		0			
10	QPSK	50	522	20.40	20.49	20.36		0			
10	QPSK	50	530	20.42	20.49	20.36	21.3	0			
10	QPSK	50	538	20.42	20.49	20.36		0			
10	QPSK	50	546	20.40	20.49	20.36		0			
10	QPSK	50	554	20.40	20.49	20.36		0			
10	QPSK	50	562	20.40	20.49	20.36	21.3	0			
10	QPSK	50	570	20.40	20.49	20.36		0			
10	QPSK	50	578	20.40	20.49	20.36		0			
10	QPSK	50	586	20.40	20.49	20.36		0			
10	QPSK	50	594	20.40	20.49	20.36	21.3	0			
10	QPSK	50	602	20.40	20.49	20.36		0			
10	QPSK	50	610	20.40	20.49	20.36		0			
10	QPSK	50	618	20.40	20.49	20.36		0			
10	QPSK	50	626	20.42	20.49	20.36	21.3	0			
10	QPSK	50	634	20.42	20.49	20.36		0			
10	QPSK	50	642	20.40	20.49	20.36		0			
10	QPSK	50	650	20.40	20.49	20.36		0			
10	QPSK	50	658	20.40	20.49	20.36	21.3	0			
10	QPSK	50	666	20.40	20.49	20.36		0			
10	QPSK	50	674	20.40	20.49	20.36		0			
10	QPSK	50	682	20.40	20.49	20.36		0			
10	QPSK	50	690	20.40	20.49	20.36	21.3	0			
10	QPSK	50	698	20.40	20.49	20.36		0			
10	QPSK	50	706	20.40	20.49	20.36		0			
10	QPSK	50	714	20.40	20.49	20.36		0			
10	QPSK	50	722	20.42	20.49	20.36	21.3	0			
10	QPSK	50	730	20.42	20.49	20.36		0			
10	QPSK	50	738	20.40	20.49	20.36		0			
10	QPSK	50	746	20.40	20.49	20.36		0			
10	QPSK	50	754	20.40	20.49	20.36	21.3	0			
10	QPSK	50	762	20.40	20.49	20.36		0			
10	QPSK	50	770	20.40	20.49	20.36		0			
10	QPSK	50	778	20.40	20.49	20.36		0			
10	QPSK	50	786	20.40	20.49	20.36	21.3	0			
10	QPSK	50	794	20.40	20.49	20.36		0			
10	QPSK	50	802	20.40	20.49	20.36		0			
10	QPSK	50	810	20.40	20.49	20.36		0			
10	QPSK	50	818	20.40	20.49	20.36	21.3	0			
10	QPSK	50	826	20.40	20.49	20.36		0			
10	QPSK	50	834	20.40	20.49	20.36		0			
10	QPSK	50	842	20.40	20.49	20.36		0			
10	QPSK	50	850	20.40	20.49	20.36	21.3	0			
10	QPSK	50	858	20.40	20.49	20.36		0			
10	QPSK	50	866	20.40	20.49	20.36		0			
10	QPSK	50	874	20.40	20.49	20.36		0			
10	QPSK	50	882	20.40	20.49	20.36	21.3	0			
10	QPSK	50	890	20.40	20.49	20.36		0			
10	QPSK	50	898	20.40	20.49	20.36		0			
10	QPSK	50	906	20.40	20.49	20.36		0			
10	QPSK	50	914	20.40	20.49	20.36	21.3	0			
10	QPSK	50	922	20.40	20.49	20.36		0			
10	QPSK	50	930	20.40	20.49	20.36		0			
10	QPSK	50	938	20.40	20.49	20.36		0			
10	QPSK	50	946	20.42	20.49	20.36	21.3	0			
10	QPSK	50	954	20.42	20.49	20.36		0			
10	QPSK	50	962	20.40	20.49	20.36		0			
10	QPSK	50	970	20.40	20.49	20.36		0			
10	QPSK	50	978	20.40	20.49	20.36	21.3	0			
10	QPSK	50	986	20.40	20.49	20.36		0			
10	QPSK	50	994	20.40	20.49	20.36		0			
10	QPSK	50	1002	20.40	20.49	20.36		0			
10	QPSK	50	1010	20.40	20.49	20.36	21.3	0			
10	QPSK	50	1018	20.40	20.49	20.36		0			
10	QPSK	50	1026	20.40	20.49	20.36		0			
10	QPSK	50	1034	20.40	20.49	20.36		0			
10	QPSK	50	1042	20.42	20.49	20.36	21.3	0			
10	QPSK	50	1050	20.42	20.49	20.36		0			
10	QPSK	50	1058	20.40	20.49	20.36		0			
10	QPSK	50	1066	20.40	20.49	20.36		0			
10	QPSK	50	1074	20.40	20.49	20.36	21.3	0			
10	QPSK	50	1082	20.40	20.49	20.36		0			
10	QPSK	50	1090	20.40	20.49	20.36		0			
10	QPSK	50	1098	20.40	20.49	20.36		0			
10	QPSK	50	1106	20.40	20.49	20.36	21.3	0			
10	QPSK	50	1114	20.40	20.49	20.36		0			
10	QPSK	50	1122	20.40	20.49	20.36		0			
10	QPSK	50	1130	20.40	20.49	20.36		0			
10	QPSK	50	1138	20.42	20.49	20.36	21.3	0			
10	QPSK	50	1146	20.42	20.49	20.36		0			
10	QPSK	50	1154	20.40	20.49	20.36		0			
10	QPSK	50	1162	20.40	20.49	20.36		0			
10	QPSK	50	1170	20.40	20.49	20.36	21.3	0			

LTE Band 66_Ant 0										
SP (MHz)	Modulation	RB Size	RB Offset	Power Cn./Freq.	Power Cn./Freq.	Power Cn./Freq.	Turn-on time (ms)	APN (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	0	18.50	18.73	18.93	20.7	0	19.9	0
25	QPSK	4	0	18.51	18.74	18.94				
25	QPSK	1	60	18.54	18.87	19.12				
25	QPSK	50	0	18.53	18.71	19.01				
25	QPSK	24	0	18.56	18.74	19.04	20.7	0	19.9	0
25	QPSK	50	60	18.45	18.72	19.03				
25	QPSK	100	0	18.57	18.86	19.04				
25	QPSK	50	0	18.50	18.73	18.93				
25	HQPSK	1	60	18.45	18.69	19.10	20.7	0	19.9	0
25	HQPSK	1	60	18.53	18.89	19.07				
25	HQPSK	24	0	18.46	18.64	19.01				
25	HQPSK	50	24	18.55	18.82	19.09				
25	HQPSK	50	50	18.54	18.84	19.03	20.7	0	19.9	0
25	HQPSK	100	0	18.56	18.72	19.02				
25	HQPSK	1	0	18.46	18.72	19.04				
25	HQPSK	1	60	18.57	18.86	19.01				
25	HQPSK	50	50	18.46	18.72	19.03	20	0.7	19.9	0
25	HQPSK	50	0	18.45	18.66	19.06				
25	HQPSK	50	24	18.55	18.83	19.09				
25	HQPSK	50	50	18.53	18.71	19.01				
25	HQPSK	100	0	18.47	18.69	19.10	20	0.7	19.9	0
25	HQPSK	1	0	18.52	18.74	19.10				
25	HQPSK	40	0	18.46	18.74	19.03				
25	HQPSK	1	60	18.53	18.86	19.02				
25	HQPSK	50	50	18.46	18.73	19.03	20	0.7	19.9	0
25	HQPSK	50	0	18.56	18.85	19.03				
25	HQPSK	50	24	18.55	18.85	19.03				
25	HQPSK	50	50	18.46	18.73	19.03				
25	HQPSK	50	50	18.53	18.82	19.03	20	0.7	19.9	0
25	HQPSK	50	50	18.46	18.73	19.03				
25	HQPSK	50	50	18.53	18.82	19.03				
25	HQPSK	50	50	18.46	18.73	19.03				
25	HQPSK	100	0	18.46	18.69	19.04	20	0.7	19.9	0
25	HQPSK	100	0	18.46	18.69	19.04				
25	HQPSK	100	0	18.46	18.69	19.04				
25	HQPSK	100	0	18.46	18.69	19.04				
25	HQPSK	100	0	18.46	18.69	19.04				
25	HQPSK	100	0	18.46	18.69	19.04				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.68	18.71	19.72	20.7	0	19.9	0
15	QPSK	1	12	18.73	19.71	19.70				
15	QPSK	1	60	18.64	19.63	19.62				
15	QPSK	12	0	18.66	19.72	19.73				
15	QPSK	12	0	18.66	19.72	19.73	20.7	0	19.9	0
15	QPSK	12	0	18.66	19.72	19.73				
15	QPSK	25	0	18.65	19.64	19.61				
15	QPSK	1	0	18.70	19.69	19.71				
15	HQPSK	1	60	18.58	18.68	19.71	20.7	0	19.9	0
15	HQPSK	1	60	18.68	18.72	19.72				
15	HQPSK	1	60	18.68	18.72	19.72				
15	HQPSK	1	60	18.68	18.72	19.72				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62	20.7	0	19.9	0
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				
15	HQPSK	12	0	18.66	19.63	19.62				



n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				370000	376000	380000			
20	Pl2 BPSK	1	1	19.18	19.37	19.24			
20	Pl2 BPSK	1	53	19.27	19.40	19.26	20.5		
20	Pl2 BPSK	1	104	19.18	19.39	19.27			
20	Pl2 BPSK	50	0	19.21	19.35	19.32	20.5		
20	Pl2 BPSK	50	26	19.26	19.38	19.15	20.5		
20	Pl2 BPSK	50	56	19.29	19.34	19.22			
20	Pl2 BPSK	100	0	19.22	19.36	19.19	20.5		
20	QPSK	1	1	19.24	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.18	20.5		
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5		
20	QPSK	50	26	19.24	19.36	19.44	20.5		
20	QPSK	50	56	19.16	19.32	19.31	20.5		
20	QPSK	100	0	19.22	19.43	19.23	20.5		
20	16QAM	1	1	19.23	19.43	19.30	20.5		
20	64QAM	1	1	19.16	19.31	19.29	20.5		
20	256QAM	1	1	19.27	19.32	19.19	20.5		
Channel									
Frequency (MHz)				1607.5	1600	1602.5	Tune-up limit (dBm)	MPR (dB)	
16	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel									
Frequency (MHz)				370000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel									
Frequency (MHz)				370000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	19.21	19.44	19.22	20.5	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1600	1600	1600			
20	Pl2 BPSK	1	1	18.03	18.08	18.11			
20	Pl2 BPSK	1	53	18.10	18.09	18.02	20.0		
20	Pl2 BPSK	1	104	18.15	18.15	18.03			
20	Pl2 BPSK	50	0	18.03	18.09	18.10	20.0		
20	Pl2 BPSK	50	26	18.08	18.15	18.12	20.0		
20	Pl2 BPSK	50	56	18.15	18.10	18.10	20.0		
20	Pl2 BPSK	100	0	18.09	18.16	18.07	20.0		
20	QPSK	1	1	18.10	18.20	18.10			
20	QPSK	1	53	18.10	18.16	18.08	20.0		
20	QPSK	1	104	18.09	18.05	18.05			
20	QPSK	50	0	18.08	18.13	18.09	20.0		
20	QPSK	50	26	18.06	18.16	18.14	20.0		
20	QPSK	50	56	18.03	18.10	18.12			
20	QPSK	100	0	18.08	18.12	18.10	20.0		
20	16QAM	1	1	18.14	18.09	18.13	20.0		
20	64QAM	1	1	18.17	18.07	18.10	20.0		
20	256QAM	1	1	18.08	18.13	18.05	20.0		
Channel									
Frequency (MHz)				1807.5	1800	1802.5	Tune-up limit (dBm)	MPR (dB)	
16	QPSK	1	1	18.09	18.13	18.08	20.0		
Channel									
Frequency (MHz)				1805	1880	1805	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.11	18.14	18.09	20.0		
Channel									
Frequency (MHz)				1802.5	1880	1807.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	18.15	18.10	18.12	20.0		

n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1810	1862.5	1905			
40	Pl2 BPSK	1	1	19.27	19.28	19.23			
40	Pl2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0	
40	Pl2 BPSK	1	214	19.29	19.25	19.26			
40	Pl2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0	
40	Pl2 BPSK	108	84	19.27	19.34	19.28	20.5	0.0	
40	Pl2 BPSK	108	108	19.28	19.32	19.21			
40	Pl2 BPSK	216	0	19.20	19.24	19.27	20.5	0.0	
40	QPSK	1	1	19.31	19.45	19.33			
40	QPSK	1	108	19.16	19.29	19.24	20.5	0.0	
40	QPSK	1	214	19.24	19.32	19.31			
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0	
40	QPSK	108	54	19.26	19.35	19.30	20.5	0.0	
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0	
40	QPSK	216	0	19.17	19.33	19.20	20.5	0.0	
40	16QAM	1	1	19.23	19.23	19.28	20.5	0.0	
40	64QAM	1	1	19.17	19.37	19.26	20.5	0.0	
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0	
Channel									
Frequency (MHz)				1687.5	1682.5	1687.5	Tune-up limit (dBm)	MPR (dB)	
36	QPSK	1	1	19.17	19.29	19.31	20.5	0.0	
Channel									
Frequency (MHz)				371500	376500	380000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0	
Channel									
Frequency (MHz)				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0	
Channel									
Frequency (MHz)				1921	1928	1925	20.5	0.0	
25	QPSK	1	1	19.21	19.28	19.25	20.5	0.0	
Channel									
Frequency (MHz)				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
26	QPSK	1	1	19.16	19.37	19.26	20.5	0.0	
Channel									
Frequency (MHz)				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.24	19.35	19.22	20.5	0.0	
Channel									
Frequency (MHz)				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0	
Channel									
Frequency (MHz)				376500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0	



n25_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
40	PQ2 BPSK	1	1	18.10	18.09	18.10	
40	PQ2 BPSK	1	108	18.07	18.22	18.08	20.0
40	PQ2 BPSK	1	214	18.16	18.12	18.09	
40	PQ2 BPSK	108	0	18.10	18.20	18.13	20.0
40	PQ2 BPSK	108	14	18.07	18.22	18.11	20.0
40	PQ2 BPSK	108	108	18.17	18.13	18.10	20.0
40	PQ2 BPSK	216	0	18.12	18.15	18.09	20.0
40	QPSK	1	1	18.22	18.24	18.20	
40	QPSK	1	108	18.16	18.21	18.11	20.0
40	QPSK	1	214	18.10	18.18	18.08	
40	QPSK	108	0	18.11	18.13	18.08	20.0
40	QPSK	108	14	18.16	18.20	18.15	20.0
40	QPSK	108	108	18.12	18.15	18.13	20.0
40	QPSK	216	0	18.09	18.13	18.05	20.0
40	16QAM	1	1	18.12	18.15	18.10	20.0
40	64QAM	1	1	18.14	18.12	18.06	20.0
40	256QAM	1	1	17.75	17.89	17.74	19.5
Channel							
Frequency (MHz)							
36	QPSK	1	1	18.11	18.13	18.17	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.19	18.16	18.11	20.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	18.09	18.17	18.05	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.14	18.13	18.14	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.16	18.15	18.18	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.12	18.12	18.19	20.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	18.10	18.14	18.07	20.0

n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
40	PQ2 BPSK	1	1	19.95	19.89	19.85	
40	PQ2 BPSK	1	108	19.89	19.97	19.98	21.0
40	PQ2 BPSK	1	214	19.85	19.90	19.88	
40	PQ2 BPSK	108	0	19.86	19.99	19.94	21.0
40	PQ2 BPSK	108	14	19.85	20.00	19.98	21.0
40	PQ2 BPSK	108	108	19.87	20.03	19.88	21.0
40	PQ2 BPSK	216	0	19.91	19.95	19.89	21.0
40	QPSK	1	1	20.00	20.05	20.02	
40	QPSK	1	108	19.85	20.02	19.89	21.0
40	QPSK	1	214	19.88	20.04	19.97	
40	QPSK	108	0	19.85	19.98	19.88	21.0
40	QPSK	108	14	19.85	20.00	19.85	21.0
40	QPSK	108	108	19.91	19.97	19.93	21.0
40	QPSK	216	0	19.92	20.02	19.97	21.0
40	16QAM	1	1	19.97	20.03	20.00	21.0
40	64QAM	1	1	19.92	20.00	20.00	21.0
40	256QAM	1	1	19.85	20.01	19.89	21.0
Channel							
Frequency (MHz)							
36	QPSK	1	1	19.83	19.85	20.01	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.83	19.87	19.87	21.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.97	20.03	19.88	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.93	19.96	19.93	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.92	19.93	19.87	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.93	19.89	19.87	21.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	19.92	19.90	19.89	21.0

n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
40	PQ2 BPSK	1	1	19.19	19.07	19.08	
40	PQ2 BPSK	1	108	19.09	19.17	19.08	20.0
40	PQ2 BPSK	1	214	19.12	19.18	19.16	
40	PQ2 BPSK	108	0	19.14	19.15	19.16	20.0
40	PQ2 BPSK	108	14	19.13	19.16	19.15	20.0
40	PQ2 BPSK	108	108	19.08	19.12	19.06	20.0
40	PQ2 BPSK	216	0	19.17	19.16	19.16	20.0
40	QPSK	1	1	19.20	19.22	19.16	
40	QPSK	1	108	19.16	19.21	19.03	20.0
40	QPSK	1	214	19.17	19.14	19.08	
40	QPSK	108	0	19.12	19.08	19.16	20.0
40	QPSK	108	14	19.15	19.18	19.11	20.0
40	QPSK	108	108	19.07	19.13	19.08	20.0
40	QPSK	216	0	19.17	19.16	19.14	20.0
40	16QAM	1	1	19.06	19.17	19.10	20.0
40	64QAM	1	1	19.16	19.08	19.15	20.0
40	256QAM	1	1	18.84	18.96	18.83	19.5
Channel							
Frequency (MHz)							
36	QPSK	1	1	19.13	19.17	19.12	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.16	19.10	19.10	20.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.18	19.16	19.10	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.13	19.09	19.12	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.10	19.17	19.06	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.19	19.12	19.03	20.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	19.06	19.09	19.06	20.0



Reduced Power Mode for Other PA DS17

LTE Band 2_Ant 0											
Ref (dBm)	Modulation	Ref Size	Ref Offset	Power (mW)	Power (mW) Ch1/Freq	Power (mW) Ch2/Freq	Power (mW) Ch3/Freq	Time-on (min)	APR (dB)		
Carrier											
Frequency (MHz)											
30	QPSK	1	0	15.41	15.41	15.45		18.3	0		
30	QPSK	1	99	15.40	15.34	15.39					
30	QPSK	1	99	15.33	15.28	15.34					
30	QPSK	1	99	15.42	15.36	15.41					
30	QPSK	36	96	15.30	15.34	15.34		18.3	0		
30	QPSK	36	96	15.29	15.33	15.33					
30	QPSK	36	96	15.29	15.34	15.34					
30	QPSK	36	96	15.29	15.35	15.35					
30	QPSK	1	49	15.40	15.29	15.24		18.3	0		
30	QPSK	1	49	15.39	15.28	15.23					
30	QPSK	1	49	15.39	15.31	15.26					
30	QPSK	1	49	15.32	15.41	15.29					
30	QPSK	50	24	15.32	15.36	15.33		18.3	0		
30	QPSK	50	24	15.31	15.35	15.32					
30	QPSK	50	24	15.29	15.36	15.35					
30	QPSK	50	24	15.28	15.35	15.34					
30	QPSK	1	0	15.39	15.39	15.34		18.3	0		
30	QPSK	1	0	15.39	15.39	15.34					
30	QPSK	1	99	15.38	15.32	15.34					
30	QPSK	1	99	15.31	15.26	15.32					
30	QPSK	100	0	15.39	15.39	15.34		18.3	0		
30	QPSK	100	0	15.39	15.39	15.34					
30	QPSK	100	99	15.38	15.32	15.34					
30	QPSK	100	99	15.31	15.26	15.32					
30	QPSK	1	49	15.38	15.29	15.31		18.3	0		
30	QPSK	1	49	15.38	15.29	15.31					
30	QPSK	1	49	15.31	15.36	15.33					
30	QPSK	1	49	15.24	15.38	15.35					
30	QPSK	50	24	15.30	15.38	15.35		18.3	0		
30	QPSK	50	24	15.30	15.38	15.35					
30	QPSK	50	24	15.30	15.38	15.35					
30	QPSK	50	24	15.30	15.38	15.35					
30	QPSK	50	96	15.35	15.37	15.33		18.3	0		
30	QPSK	50	96	15.34	15.36	15.32					
30	QPSK	50	96	15.34	15.36	15.32					
30	QPSK	50	96	15.34	15.36	15.32					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.32	15.31		18.3	0		
30	QPSK	36	96	15.34	15.32	15.31					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	1	0	15.35	15.36	15.32		18.3	0		
30	QPSK	1	0	15.35	15.36	15.32					
30	QPSK	1	99	15.34	15.33	15.33					
30	QPSK	1	99	15.31	15.29	15.32					
30	QPSK	36	96	15.34	15.33	15.33		18.3	0		
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	36	96	15.34	15.33	15.33					
30	QPSK	75	0	15.32	15.31	15.31		18.3	0		
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31	15.31					
30	QPSK	75	0	15.32	15.31</						

LTE Band 25_Ant 0													
BSF (BWP)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Time-use (min)	APR (dB)					
Channel 1800													
Frequency (MHz)													
10	QPSK	1	0	15.33	15.42	15.34	16.3	0					
10	QPSK	1	16	15.33	15.42	15.34							
10	QPSK	1	36	15.38	15.40	15.35							
10	QPSK	30	0	15.20	15.30	15.24	16.3	0					
10	QPSK	30	16	15.20	15.30	15.24							
10	QPSK	30	36	15.22	15.37	15.24							
10	QPSK	100	0	15.18	15.40	15.22	16.3	0					
10	QPSK	100	16	15.18	15.40	15.23							
10	QPSK	100	36	15.19	15.33	15.24							
10	QPSK	1	0	15.23	15.41	15.17	16.3	0					
10	QPSK	1	16	15.23	15.41	15.17							
10	QPSK	1	36	15.23	15.41	15.23							
10	QPSK	30	0	15.18	15.30	15.23	16.3	0					
10	QPSK	30	16	15.20	15.43	15.28							
10	QPSK	30	36	15.18	15.30	15.24							
10	QPSK	100	0	15.25	15.41	15.25	16.3	0					
10	QPSK	100	16	15.25	15.41	15.25							
10	QPSK	100	36	15.18	15.30	15.24							
10	QPSK	1	0	15.23	15.41	15.17	16.3	0					
10	QPSK	1	16	15.23	15.41	15.17							
10	QPSK	1	36	15.17	15.40	15.20							
10	QPSK	30	0	15.21	15.44	15.19	16.3	0					
10	QPSK	30	16	15.21	15.41	15.28							
10	QPSK	30	36	15.13	15.44	15.29							
10	QPSK	100	0	15.22	15.21	15.19	16.3	0					
10	QPSK	100	16	15.22	15.21	15.19							
10	QPSK	100	36	15.22	15.21	15.19							
Channel 1800													
Frequency (MHz)													
15	QPSK	1	0	15.30	15.38	15.37	16.3	0					
15	QPSK	1	16	15.41	15.40	15.40							
15	QPSK	1	36	15.38	15.37	15.38							
15	QPSK	30	0	15.31	15.31	15.31	16.3	0					
15	QPSK	30	16	15.44	15.42	15.40							
15	QPSK	30	36	15.32	15.34	15.35							
15	QPSK	100	0	15.37	15.38	15.38	16.3	0					
15	QPSK	100	16	15.38	15.38	15.40							
15	QPSK	100	36	15.31	15.32	15.32							
15	QPSK	1	0	15.31	15.32	15.32	16.3	0					
15	QPSK	1	16	15.31	15.32	15.32							
15	QPSK	1	36	15.31	15.32	15.32							
15	QPSK	30	0	15.35	15.34	15.35	16.3	0					
15	QPSK	30	16	15.35	15.34	15.35							
15	QPSK	30	36	15.35	15.34	15.35							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPSK	100	0	15.35	15.35	15.36	16.3	0					
15	QPSK	100	16	15.35	15.35	15.36							
15	QPSK	100	36	15.35	15.35	15.36							
15	QPSK	1	0	15.35	15.35	15.36	16.3	0					
15	QPSK	1	16	15.35	15.35	15.36							
15	QPSK	1	36	15.35	15.35	15.36							
15	QPSK	30	0	15.35	15.35	15.36	16.3	0					
15	QPSK	30	16	15.35	15.35	15.36							
15	QPSK	30	36	15.35	15.35	15.36							
15	QPS												

LTE Band 66_Ant 0											
RF BWP	Modulation	RB Size	RB Offset	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power	Power Class Tx Power
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
10	QPSK	1	0	15.90	15.90	15.90					
10	QPSK	1	8	15.91	15.91	15.91					
10	QPSK	1	16	15.92	15.92	15.92					
10	QPSK	1	24	15.93	15.93	15.93					
10	QPSK	1	32	15.94	15.94	15.94					
10	QPSK	1	40	15.95	15.95	15.95					
10	QPSK	1	48	15.96	15.96	15.96					
10	QPSK	1	56	15.97	15.97	15.97					
10	QPSK	1	64	15.98	15.98	15.98					
10	QPSK	1	72	15.99	15.99	15.99					
10	QPSK	1	80	16.00	16.00	16.00					
10	QPSK	1	88	16.01	16.01	16.01					
10	QPSK	1	96	16.02	16.02	16.02					
10	QPSK	1	104	16.03	16.03	16.03					
10	QPSK	1	112	16.04	16.04	16.04					
10	QPSK	1	120	16.05	16.05	16.05					
10	QPSK	1	128	16.06	16.06	16.06					
10	QPSK	1	136	16.07	16.07	16.07					
10	QPSK	1	144	16.08	16.08	16.08					
10	QPSK	1	152	16.09	16.09	16.09					
10	QPSK	1	160	16.10	16.10	16.10					
10	QPSK	1	168	16.11	16.11	16.11					
10	QPSK	1	176	16.12	16.12	16.12					
10	QPSK	1	184	16.13	16.13	16.13					
10	QPSK	1	192	16.14	16.14	16.14					
10	QPSK	1	200	16.15	16.15	16.15					
10	QPSK	1	208	16.16	16.16	16.16					
10	QPSK	1	216	16.17	16.17	16.17					
10	QPSK	1	224	16.18	16.18	16.18					
10	QPSK	1	232	16.19	16.19	16.19					
10	QPSK	1	240	16.20	16.20	16.20					
10	QPSK	1	248	16.21	16.21	16.21					
10	QPSK	1	256	16.22	16.22	16.22					
10	QPSK	1	264	16.23	16.23	16.23					
10	QPSK	1	272	16.24	16.24	16.24					
10	QPSK	1	280	16.25	16.25	16.25					
10	QPSK	1	288	16.26	16.26	16.26					
10	QPSK	1	296	16.27	16.27	16.27					
10	QPSK	1	304	16.28	16.28	16.28					
10	QPSK	1	312	16.29	16.29	16.29					
10	QPSK	1	320	16.30	16.30	16.30					
10	QPSK	1	328	16.31	16.31	16.31					
10	QPSK	1	336	16.32	16.32	16.32					
10	QPSK	1	344	16.33	16.33	16.33					
10	QPSK	1	352	16.34	16.34	16.34					
10	QPSK	1	360	16.35	16.35	16.35					
10	QPSK	1	368	16.36	16.36	16.36					
10	QPSK	1	376	16.37	16.37	16.37					
10	QPSK	1	384	16.38	16.38	16.38					
10	QPSK	1	392	16.39	16.39	16.39					
10	QPSK	1	400	16.40	16.40	16.40					
10	QPSK	1	408	16.41	16.41	16.41					
10	QPSK	1	416	16.42	16.42	16.42					
10	QPSK	1	424	16.43	16.43	16.43					
10	QPSK	1	432	16.44	16.44	16.44					
10	QPSK	1	440	16.45	16.45	16.45					
10	QPSK	1	448	16.46	16.46	16.46					
10	QPSK	1	456	16.47	16.47	16.47					
10	QPSK	1	464	16.48	16.48	16.48					
10	QPSK	1	472	16.49	16.49	16.49					
10	QPSK	1	480	16.50	16.50	16.50					
10	QPSK	1	488	16.51	16.51	16.51					
10	QPSK	1	496	16.52	16.52	16.52					
10	QPSK	1	504	16.53	16.53	16.53					
10	QPSK	1	512	16.54	16.54	16.54					
10	QPSK	1	520	16.55	16.55	16.55					
10	QPSK	1	528	16.56	16.56	16.56					
10	QPSK	1	536	16.57	16.57	16.57					
10	QPSK	1	544	16.58	16.58	16.58					
10	QPSK	1	552	16.59	16.59	16.59					
10	QPSK	1	560	16.60	16.60	16.60					
10	QPSK	1	568	16.61	16.61	16.61					
10	QPSK	1	576	16.62	16.62	16.62					
10	QPSK	1	584	16.63	16.63	16.63					
10	QPSK	1	592	16.64	16.64	16.64					
10	QPSK	1	600	16.65	16.65	16.65					
10	QPSK	1	608	16.66	16.66	16.66					
10	QPSK	1	616	16.67	16.67	16.67					
10	QPSK	1	624	16.68	16.68	16.68					
10	QPSK	1	632	16.69	16.69	16.69					
10	QPSK	1	640	16.70	16.70	16.70					
10	QPSK	1	648	16.71	16.71	16.71					
10	QPSK	1	656	16.72	16.72	16.72					
10	QPSK	1	664	16.73	16.73	16.73					
10	QPSK	1	672	16.74	16.74	16.74					
10	QPSK	1	680	16.75	16.75	16.75					
10	QPSK	1	688	16.76	16.76	16.76					
10	QPSK	1	696	16.77	16.77	16.77					
10	QPSK	1	704	16.78	16.78	16.78					
10	QPSK	1	712	16.79	16.79	16.79					
10	QPSK	1	720	16.80	16.80	16.80					
10	QPSK	1	728	16.81	16.81	16.81					
10	QPSK	1	736	16.82	16.82	16.82					
10	QPSK	1	744	16.83	16.83	16.83					
10	QPSK	1	752	16.84	16.84	16.84					
10	QPSK	1	760	16.85	16.85	16.85					
10	QPSK	1	768	16.86	16.86	16.86					
10	QPSK	1	776	16.87	16.87	16.87					
10	QPSK	1	784	16.88	16.88	16.88					
10	QPSK	1	792	16.89	16.89	16.89					
10	QPSK	1	800	16.90	16.90	16.90					
10	QPSK	1	808	16.91	16.91	16.91					
10	QPSK	1	816	16.92	16.92	16.92					
10	QPSK	1	824	16.93	16.93	16.93					
10	QPSK	1	832	16.94	16.94	16.94					
10	QPSK	1	840	16.95	16.95	16.95					
10	QPSK	1	848	16.96	16.96	16.96					
10	QPSK	1	856	16.97	16.97	16.97					
10	QPSK	1	864	16.98	16.98	16.98					
10	QPSK	1	872	16.99	16.99	16.99					
10	QPSK	1	880	17.00	17.00	17.00					
10	QPSK	1	888	17.01	17.01	17.01					
10	QPSK	1	896	17.02	17.02	17.02					
10	QPSK	1	904	17.03	17.03	17.03					
10	QPSK	1	912	17.04	17.04	17.04					
10	QPSK	1	920	17.05	17.05	17.05					
10	QPSK	1	928	17.06	17.06	17.06					
10	QPSK	1	936	17.07	17.07	17.07					
10	QPSK	1	944	17.08	17.08	17.08					
10	QPSK	1	952	17.09	17.09	17.09					
10	QPSK	1	960	17.10	17.10	17.10					
10	QPSK	1	968	17.11	17.11	17.11					
10	QPSK	1	976	17.12	17.12	17.12					
10	QPSK	1	984	17.13	17.13	17.13					
10	QPSK	1	992	17.14	17.14	17.14					
10	QPSK	1	1000	17.15	17.15	17.15					
10	QPSK	1	1008	17.16	17.16	17.16					
10	QPSK	1	1016	17.17	17.17	17.17					
10	QPSK	1	1024	17.18	17.18	17.18					
10	QPSK	1	1032	17.19	17.19	17.19					
10	QPSK	1	1040	17.20	17.20	17.20					
10	QPSK	1	1048	17.21	17.21	17.21					
10	QPSK	1	1056	17.22	17.22	17.22					
10	QPSK	1	1064	17.23	17.23	17.23					
10	QPSK	1	1072	17.24	17.24	17.24					
10	QPSK	1	1080	17.25	17.25	17.25					
10	QPSK	1	1088	17.26	17.26	17.26					
10	QPSK	1	1096	17.27	17.27	17.27					
10	QPSK	1	1104	17.28	17.28	17.28					
10	QPSK	1	1112	17.29	17.29	17.29					
10	QPSK	1	1120	17.30	17.30	17.30					
10	QPSK	1	1128	17.31	17.31	17.31					
10	QPSK	1	1136	17.32	17.32	17.32					
10	QPSK	1	1144	17.33	17.33	17.33					



n2_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				375000	376000	380000		
Frequency (MHz)				1800	1800	1900		
20	PV2 BPSK	1	1	14.85	14.86	14.71	16.0	0.0
20	PV2 BPSK	1	53	14.83	14.81	14.69		
20	PV2 BPSK	1	104	14.86	14.87	14.66		
20	PV2 BPSK	50	0	14.86	14.85	14.73	16.0	0.0
20	PV2 BPSK	50	28	14.80	14.80	14.69	16.0	0.0
20	PV2 BPSK	50	56	14.86	14.90	14.67	16.0	0.0
20	PV2 BPSK	100	0	14.85	14.87	14.68		
20	QPSK	1	1	14.78	14.95	14.52		
20	QPSK	1	53	14.80	14.91	14.73	16.0	0.0
20	QPSK	1	104	14.76	14.83	14.76	16.0	0.0
20	QPSK	50	0	14.84	14.86	14.64		
20	QPSK	50	28	14.86	14.91	14.76		
20	QPSK	50	56	14.78	14.90	14.64	16.0	0.0
20	QPSK	100	0	14.82	14.85	14.72	16.0	0.0
20	16QAM	1	1	14.82	14.86	14.63		
20	16QAM	1	1	14.86	14.86	14.63		
20	256QAM	1	1	14.83	14.84	14.74	16.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1807.5	1800	1902.5	(dBm)	(dB)
15	QPSK	1	1	14.87	14.80	14.71	16.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1805	1860	1905	(dBm)	(dB)
10	QPSK	1	1	14.79	14.81	14.71	16.0	0.0
Channel				370500	376000	375500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1802.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	14.75	14.87	14.65	16.0	0.0

n2_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				375000	376000	380000		
Frequency (MHz)				1800	1800	1900		
20	PV2 BPSK	1	1	12.23	12.32	12.24	13.5	0.0
20	PV2 BPSK	1	53	12.27	12.38	12.22		
20	PV2 BPSK	1	104	12.33	12.38	12.31		
20	PV2 BPSK	50	0	12.25	12.39	12.24	13.5	0.0
20	PV2 BPSK	50	28	12.33	12.40	12.27	13.5	0.0
20	PV2 BPSK	50	56	12.23	12.38	12.31	13.5	0.0
20	PV2 BPSK	100	0	12.30	12.39	12.25		
20	QPSK	1	1	12.42	12.45	12.37		
20	QPSK	1	53	12.32	12.44	12.30	13.5	0.0
20	QPSK	1	104	12.35	12.34	12.28	13.5	0.0
20	QPSK	50	0	12.24	12.41	12.24		
20	QPSK	50	28	12.35	12.43	12.31		
20	QPSK	50	56	12.24	12.33	12.25	13.5	0.0
20	QPSK	100	0	12.34	12.41	12.26		
20	16QAM	1	1	12.24	12.34	12.28		
20	16QAM	1	1	12.26	12.35	12.28	13.5	0.0
20	256QAM	1	1	12.25	12.35	12.30	13.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1807.5	1800	1902.5	(dBm)	(dB)
10	QPSK	1	1	12.26	12.35	12.31	13.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1805	1860	1905	(dBm)	(dB)
10	QPSK	1	1	12.33	12.38	12.26	13.5	0.0
Channel				370500	376000	375500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1802.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	12.33	12.32	12.29	13.5	0.0

n25_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				374000	376000			
Frequency (MHz)				1870	1862.5	1905		
40	PV2 BPSK	1	1	14.73	14.92	14.74	16.0	0.0
40	PV2 BPSK	1	108	14.67	14.88	14.61		
40	PV2 BPSK	1	214	14.67	14.66	14.65		
40	PV2 BPSK	108	0	14.64	14.80	14.59	16.0	0.0
40	PV2 BPSK	108	54	14.69	14.85	14.60	16.0	0.0
40	PV2 BPSK	108	108	14.60	14.64	14.59	16.0	0.0
40	PV2 BPSK	216	0	14.68	14.81	14.74		
40	QPSK	1	1	14.80	14.97	14.82		
40	QPSK	1	108	14.76	14.87	14.70	16.0	0.0
40	QPSK	1	214	14.71	14.76	14.74	16.0	0.0
40	QPSK	108	0	14.74	14.86	14.67		
40	QPSK	108	54	14.75	14.89	14.61		
40	QPSK	108	108	14.65	14.67	14.69	16.0	0.0
40	QPSK	216	0	14.76	14.89	14.81	16.0	0.0
40	16QAM	1	1	14.79	14.90	14.73		
40	16QAM	1	1	14.69	14.83	14.69		
40	64QAM	1	1	14.69	14.83	14.69	16.0	0.0
40	256QAM	1	1	14.62	14.73	14.72	16.0	0.0
Channel				371500	376000	379500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1807.5	1802.5	1897.5	(dBm)	(dB)
35	QPSK	1	1	14.75	14.88	14.75	16.0	0.0
Channel				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1805	1862.5	1900	(dBm)	(dB)
30	QPSK	1	1	14.73	14.93	14.75	16.0	0.0
Channel				372000	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1802.5	1882.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	14.78	14.94	14.78	16.0	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1902.5	1905	(dBm)	(dB)
20	QPSK	1	1	14.75	14.87	14.78	16.0	0.0
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1897.5	1922.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	14.72	14.95	14.75	16.0	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1905	1882.5	1910	(dBm)	(dB)
10	QPSK	1	1	14.76	14.91	14.79	16.0	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1892.5	1892.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	14.70	14.90	14.73	16.0	0.0



n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				374000	376500	379000			
				1870	1880.5	1895			
40	Pl2 BPSK	1	1	11.68	11.79	11.61			
40	Pl2 BPSK	1	108	11.64	11.60	11.61	13.5	0.0	
40	Pl2 BPSK	1	214	11.60	11.66	11.55			
40	Pl2 BPSK	108	0	11.57	11.70	11.51	13.5	0.0	
40	Pl2 BPSK	108	84	11.56	11.59	11.52	13.5	0.0	
40	Pl2 BPSK	108	108	11.60	11.53	11.54	13.5	0.0	
40	Pl2 BPSK	216	0	11.66	11.71	11.51			
40	QPSK	1	1	11.71	11.86	11.66			
40	QPSK	1	108	11.65	11.63	11.62	13.5	0.0	
40	QPSK	1	214	11.68	11.71	11.56			
40	QPSK	108	0	11.67	11.77	11.57	13.5	0.0	
40	QPSK	108	84	11.62	11.61	11.55	13.5	0.0	
40	QPSK	108	108	11.64	11.63	11.55	13.5	0.0	
40	QPSK	216	0	11.70	11.76	11.60			
40	16QAM	1	1	11.62	11.84	11.57	13.5	0.0	
40	16QAM	1	1	11.65	11.81	11.62	13.5	0.0	
40	256QAM	1	1	11.62	11.62	11.58	13.5	0.0	
Channel									
Frequency (MHz)				1867.5	1862.5	1867.5	Tune-up limit (dBm)	MPR (dB)	
38	QPSK	1	1	11.63	11.70	11.47	13.5	0.0	
Channel									
Frequency (MHz)				1865	1862.5	1860	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	11.59	11.62	11.52	13.5	0.0	
Channel									
Frequency (MHz)				1862.500	1862.500	1862.500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	11.56	11.58	11.54	13.5	0.0	
Channel									
Frequency (MHz)				1872.000	1870.000	1870.000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	11.58	11.57	11.55	13.5	0.0	
Channel									
Frequency (MHz)				1871.500	1870.000	1871.500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	11.61	11.60	11.56	13.5	0.0	
Channel									
Frequency (MHz)				1871.000	1870.000	1870.000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	11.58	11.55	11.59	13.5	0.0	
Channel									
Frequency (MHz)				1862.5	1862.5	1862.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	11.61	11.54	11.58	13.5	0.0	

n66_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	16.01	16.04	15.89			
40	Pl2 BPSK	1	108	15.92	15.86	15.86	17.0	0.0	
40	Pl2 BPSK	1	214	15.82	15.88	15.84			
40	Pl2 BPSK	108	0	15.78	15.80	15.80	17.0	0.0	
40	Pl2 BPSK	108	84	15.99	16.04	15.80	17.0	0.0	
40	Pl2 BPSK	108	108	15.72	15.84	15.83	17.0	0.0	
40	Pl2 BPSK	216	0	15.95	16.06	15.88	17.0	0.0	
40	QPSK	1	1	16.05	16.11	15.95			
40	QPSK	1	108	15.95	15.92	15.94	17.0		
40	QPSK	1	214	15.90	15.91	15.93			
40	QPSK	108	0	15.85	15.85	15.88	17.0	0.0	
40	QPSK	108	84	16.01	16.06	15.96	17.0	0.0	
40	QPSK	108	108	15.80	15.86	15.88	17.0	0.0	
40	QPSK	216	0	16.00	16.10	15.90	17.0	0.0	
40	16QAM	1	1	16.03	16.06	15.85	17.0	0.0	
40	16QAM	1	1	15.87	15.83	15.85	17.0	0.0	
40	256QAM	1	1	15.81	15.84	15.87	17.0	0.0	
Channel				345500	349500	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	15.95	16.04	15.85	17.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.98	16.04	15.87	17.0		
Channel				344500	348500	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1724.5	1745	1764.5			
25	QPSK	1	1	16.00	16.03	15.93	17.0		
Channel				344000	348000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1724.0	1745	1764			
20	QPSK	1	1	16.04	16.10	15.88	17.0		
Channel				343500	347500	351500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.02	16.09	15.93	17.0		
Channel				343000	347000	351000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.98	16.09	15.86	17.0		
Channel				342500	346500	350500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1772.5			
5	QPSK	1	1	16.01	16.02	15.91	17.0	0.0	

n66_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3460000	3490000	3520000			
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	13.69	13.76	13.73			
40	Pl2 BPSK	1	108	13.62	13.64	13.55	14.5	0.0	
40	Pl2 BPSK	1	214	13.63	13.75	13.73			
40	Pl2 BPSK	108	0	13.55	13.61	13.62	14.5	0.0	
40	Pl2 BPSK	108	84	13.56	13.72	13.65	14.5	0.0	
40	Pl2 BPSK	108	108	13.52	13.64	13.66	14.5	0.0	
40	Pl2 BPSK	216	0	13.57	13.68	13.71	14.5	0.0	
40	QPSK	1	1	13.70	13.82	13.81			
40	QPSK	1	108	13.70	13.74	13.65	14.5		
40	QPSK	1	214	13.67	13.78	13.77			
40	QPSK	108	0	13.65	13.70	13.64	14.5	0.0	
40	QPSK	108	84	13.66	13.78	13.75	14.5	0.0	
40	QPSK	108	108	13.61	13.73	13.74	14.5	0.0	
40	QPSK	216	0	13.65	13.75	13.72	14.5	0.0	
40	16QAM	1	1	13.65	13.72	13.76	14.5	0.0	
40	64QAM	1	1	13.69	13.69	13.59	14.5	0.0	
40	256QAM	1	1	13.60	13.76	13.68	14.5	0.0	
Channel				3450000	3490000	3520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
38	QPSK	1	1	13.68	13.75	13.80	14.5	0.0	
Channel				3450000	3490000	3520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	13.63	13.78	13.73	14.5	0.0	
Channel				3445000	3490000	3535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1724.5	1745	1765.5			
25	QPSK	1	1	13.68	13.78	13.80	14.5	0.0	
Channel				3440000	3490000	3540000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1724.0	1745	1770			
20	QPSK	1	1	13.63	13.74	13.73	14.5	0.0	
Channel				3435000	3490000	3545000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1723.5	1745	1772.5			
15	QPSK	1	1	13.64	13.76	13.72	14.5	0.0	
Channel				3430000	3490000	3550000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1723.0	1745	1775			
10	QPSK	1	1	13.69	13.76	13.77	14.5	0.0	
Channel				3425000	3490000	3555000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1777.5			
5	QPSK	1	1	13.68	13.72	13.72	14.5	0.0	



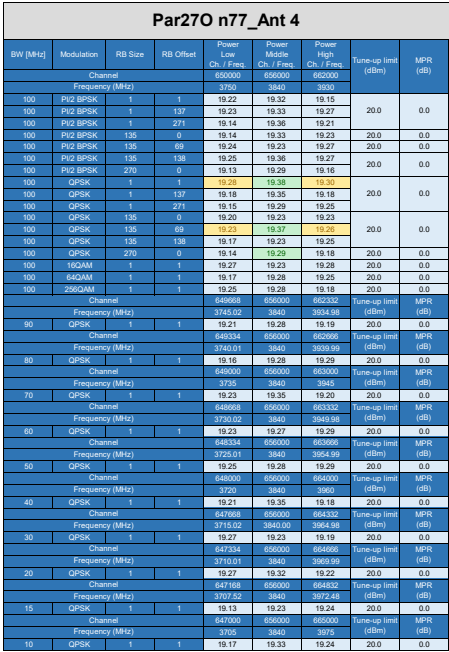
Full&Default Power Mode for Head

n48_FCC_Part96_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				8300.00	841666	846332	23.0	0.0	
Frequency (MHz)				3079	3624.99	3679.98			
40	PI2 BPSK	1	1	21.73	22.01	21.80			
40	PI2 BPSK	1	53	21.80	21.97	21.88	23.0	0.0	
40	PI2 BPSK	1	104	21.85	22.00	21.90			
40	PI2 BPSK	50	0	21.76	21.98	21.86			
40	PI2 BPSK	50	28	21.85	21.94	21.84	23.0	0.0	
40	PI2 BPSK	50	56	21.79	22.03	21.81			
40	PI2 BPSK	100	0	21.79	21.95	21.84			
40	QPSK	1	1	21.85	22.00	21.92	23.0	0.0	
40	QPSK	1	53	21.80	22.01	21.85			
40	QPSK	1	104	21.81	22.06	21.83			
40	QPSK	50	0	21.85	21.99	21.86	23.0	0.0	
40	QPSK	50	28	21.85	22.00	21.92			
40	QPSK	50	56	21.79	21.98	21.89			
40	QPSK	100	0	21.80	22.05	21.89	23.0	0.0	
40	16QAM	1	1	21.74	22.03	21.81			
40	64QAM	1	1	21.86	21.93	21.93		23.0	
40	256QAM	1	1	20.52	20.61	20.51	21.0		
Channel				83700.0	841000	845000	23.0	0.0	
Frequency (MHz)				3665.02	3624.99	3684.99			
30	QPSK	1	1	21.82	21.95	21.91		23.0	
Channel				837334	841666	846000			
Frequency (MHz)				3663.81	3624.99	3684			
20	QPSK	1	1	21.86	22.07	21.91	23.0	0.0	
Channel				837000	841666	846332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	21.73	21.94	21.85	23.0	0.0	
Channel				837000	841666	846332			
Frequency (MHz)				3555	3624.99	3694.98			

n48_FCC_Part96_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				8300.00	841666	846332	23.0	0.0	
Frequency (MHz)				3079	3624.99	3679.98			
40	PI2 BPSK	1	1	21.54	21.72	21.57			
40	PI2 BPSK	1	53	21.59	21.67	21.48	23.0	0.0	
40	PI2 BPSK	1	104	21.56	21.63	21.57			
40	PI2 BPSK	50	0	21.60	21.71	21.49			
40	PI2 BPSK	50	28	21.59	21.71	21.49	23.0	0.0	
40	PI2 BPSK	50	56	21.60	21.65	21.53			
40	PI2 BPSK	100	0	21.55	21.69	21.51			
40	QPSK	1	1	21.65	21.75	21.50	23.0	0.0	
40	QPSK	1	53	21.61	21.69	21.48			
40	QPSK	1	104	21.65	21.68	21.59			
40	QPSK	50	0	21.59	21.61	21.48	23.0	0.0	
40	QPSK	50	28	21.64	21.65	21.62			
40	QPSK	50	56	21.60	21.61	21.59			
40	QPSK	100	0	21.54	21.66	21.47	23.0	0.0	
40	16QAM	1	1	21.54	21.66	21.46			
40	64QAM	1	1	20.29	20.38	20.31		21.5	
40	256QAM	1	1	19.03	19.08	19.06	19.5		
Channel				83700.0	841000	845000	23.0	0.0	
Frequency (MHz)				3665.02	3624.99	3684.99			
30	QPSK	1	1	21.53	21.74	21.52		23.0	
Channel				837334	841666	846000			
Frequency (MHz)				3663.81	3624.99	3684			
20	QPSK	1	1	21.62	21.64	21.51	23.0	0.0	
Channel				837000	841666	846332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	21.66	21.63	21.50	23.0	0.0	
Channel				837000	841666	846332			
Frequency (MHz)				3555	3624.99	3694.98			

n48_FCC_Part96_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	646332		
Frequency (MHz)				3969	3624.99	3679.98		
40	PI/2 BPSK	1	1	20.39	20.36	20.46	21.5	0.0
40	PI/2 BPSK	1	53	20.39	20.43	20.32		
40	PI/2 BPSK	1	104	20.38	20.43	20.40		
40	PI/2 BPSK	50	0	20.40	20.44	20.34	21.5	0.0
40	PI/2 BPSK	50	28	20.39	20.41	20.45	21.5	0.0
40	PI/2 BPSK	50	56	20.38	20.38	20.36	21.5	0.0
40	PI/2 BPSK	100	0	20.40	20.37	20.39		
40	QPSK	1	1	20.41	20.48	20.47		
40	QPSK	1	53	20.29	20.33	20.33	21.5	0.0
40	QPSK	1	104	20.40	20.43	20.43		
40	QPSK	50	0	20.30	20.42	20.40		
40	QPSK	50	28	20.34	20.45	20.44	21.5	0.0
40	QPSK	50	56	20.31	20.43	20.43		
40	QPSK	100	0	20.27	20.43	20.41		
40	16QAM	1	1	18.89	20.03	18.88	21.5	0.0
40	64QAM	1	1	18.29	18.37	18.27	20.0	1.5
40	256QAM	1	1	18.86	18.87	18.72	18.0	3.5
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	20.29	20.34	20.33	21.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3680		
20	QPSK	1	1	20.39	20.43	20.46	21.5	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565	3624.99	3684.98		
10	QPSK	1	1	20.40	20.40	20.43	21.5	0.0

n48_FCC_Part96_Ant 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	646332		
Frequency (MHz)				3970	3624.99	3679.98		
40	PI/2 BPSK	1	1	21.86	22.05	21.89	23.0	0.0
40	PI/2 BPSK	1	53	21.89	21.98	21.88		
40	PI/2 BPSK	1	104	21.86	22.05	21.82		
40	PI/2 BPSK	50	0	21.98	21.95	21.82	23.0	0.0
40	PI/2 BPSK	50	28	21.93	22.03	21.92	23.0	0.0
40	PI/2 BPSK	50	56	21.88	22.02	21.88	23.0	0.0
40	PI/2 BPSK	100	0	21.88	21.98	21.83		
40	QPSK	1	1	22.07	22.07	21.95		
40	QPSK	1	53	22.00	22.06	21.94	23.0	0.0
40	QPSK	1	104	22.00	22.04	21.88		
40	QPSK	50	0	21.92	22.00	21.82		
40	QPSK	50	28	21.95	22.02	21.94	23.0	0.0
40	QPSK	50	56	21.87	21.79	21.89		
40	QPSK	100	0	21.93	21.88	21.96		
40	16QAM	1	1	21.99	22.00	21.96	23.0	0.0
40	64QAM	1	1	20.42	20.46	20.34	21.5	1.5
40	256QAM	1	1	18.39	18.45	18.31	18.5	3.5
Channel				637000	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565.02	3624.99	3684.99		
30	QPSK	1	1	21.93	21.92	21.85	23.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3680		
20	QPSK	1	1	21.91	21.92	21.90	23.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3565	3624.99	3684.98		
10	QPSK	1	1	21.98	21.97	21.92	23.0	0.0



Par270 n77_Ant 4_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			1765	3440	3530			
100	QPSK	1	1	21.58	22.21	22.19			
100	QPSK	1	137	22.03	22.10	21.97	23.0	0.0	
100	QPSK	135	0	22.09	22.19	22.04	23.0	0.0	
100	QPSK	135	49	22.01	22.23	21.97	23.0	0.0	
100	QPSK	135	136	22.06	22.19	22.00	23.0	0.0	
100	QPSK	270	0	22.02	22.19	22.00	23.0	0.0	
100	QPSK	1	1	22.10	22.25	22.12			
100	QPSK	1	137	22.08	22.14	22.04			
100	QPSK	1	271	22.03	22.11	22.05			
100	QPSK	135	0	21.97	22.12	21.97			
100	QPSK	135	49	22.03	22.17	21.97	23.0	0.0	
100	QPSK	135	136	22.05	22.19	22.00	23.0	0.0	
100	QPSK	270	0	22.02	22.13	22.08	23.0	0.0	
100	16QAM	1	1	22.08	22.17	22.05	23.0	0.0	
100	16QAM	1	271	21.96	22.18	22.05	23.0	0.0	
100	256QAM	1	1	21.95	22.17	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			64968	65600	66232	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			32432	33064	33696	23.0	0.0	
Channel									
	Frequency (MHz)			64934	65600	66266	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			37440	38104	38768	23.0	0.0	
40	QPSK	1	1	22.01	22.14	22.08			
40	QPSK	1	137	22.03	22.14	22.08	23.0	0.0	
Channel									
	Frequency (MHz)			3735	3840	3945	Turn-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.07	22.19	22.04	23.0	0.0	
70	QPSK	1	137	22.03	22.19	22.05	23.0	0.0	
Channel									
	Frequency (MHz)			37032	3840	3949.98	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.99	22.15	22.03	23.0	0.0	
60	QPSK	1	137	22.03	22.23	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			64500	65000	65400	Turn-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.03	22.23	22.06	23.0	0.0	
50	QPSK	1	137	22.03	22.23	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			21.97	22.18	22.07	23.0	0.0	
40	QPSK	1	1	21.97	22.18	22.07	23.0	0.0	
40	QPSK	1	137	22.03	22.23	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			37132	38400	394.98	Turn-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.00	22.18	22.00	23.0	0.0	
30	QPSK	1	137	22.03	22.23	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			37100	3840	399.99	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.06	22.12	21.99	23.0	0.0	
20	QPSK	1	137	22.03	22.23	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			3707.52	3840	3972.48	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.97	22.17	22.06	23.0	0.0	
15	QPSK	1	137	22.03	22.23	22.06	23.0	0.0	
Channel									
	Frequency (MHz)			21.95	22.16	22.05	23.0	0.0	
10	QPSK	1	1	22.05	22.16	22.06	23.0	0.0	

Par27Q n77_Ant 4									
BW (MHz)	Modulation	RBI Size	RBI Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
		Frequency (MHz)			3469.08				
100	P2/ BPSK	1	1	19.07					
100	P2/ BPSK	1	137	19.07			20.0	0.0	
100	P2/ BPSK	1	271	19.12					
100	P2/ BPSK	135	0	19.03			20.0	0.0	
100	P2/ BPSK	135	138	19.10			20.0	0.0	
100	P2/ BPSK	135	138	19.05			20.0	0.0	
100	P2/ BPSK	270	0	19.15			20.0	0.0	
100	QPSK	1	1	19.15					
100	QPSK	1	137	19.02			20.0	0.0	
100	QPSK	1	271	19.01					
100	QPSK	135	0	19.06					
100	QPSK	135	138	19.07			20.0	0.0	
100	QPSK	135	138	19.00			20.0	0.0	
100	QPSK	270	0	19.14			20.0	0.0	
100	16QAM	1	1	19.09			20.0	0.0	
100	16QAM	1	137	19.11			20.0	0.0	
100	256QAM	1	1	19.13			20.0	0.0	
Channel									
		Frequency (MHz)		633000	633352	633666	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	19.00	19.05	19.10	20.0	0.0	
Channel									
		Frequency (MHz)		3460.02	3469.98	3510	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	19.05	19.07	19.14	20.0	0.0	
Channel									
		Frequency (MHz)		3465.01	3469.98	3513.52	Turn-up time (dBm)	MPR (dB)	
70	QPSK	1	1	19.11	19.00	19.12	20.0	0.0	
Channel									
		Frequency (MHz)		3460.00	3469.98	3510	Turn-up time (dBm)	MPR (dB)	
60	QPSK	1	1	19.14	19.14	19.06	20.0	0.0	
Channel									
		Frequency (MHz)		631666	633352	633600	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	19.09	19.00	19.08	20.0	0.0	
Channel									
		Frequency (MHz)		19.13	19.03	19.05	20.0	0.0	
40	QPSK	1	1	19.13	19.03	19.05	20.0	0.0	
Channel									
		Frequency (MHz)		631354	633352	633632	Turn-up time (dBm)	MPR (dB)	
30	QPSK	1	1	19.09	19.09	19.08	20.0	0.0	
Channel									
		Frequency (MHz)		19.09	19.02	19.01	20.0	0.0	
20	QPSK	1	1	19.06	19.12	19.01	20.0	0.0	
Channel									
		Frequency (MHz)		632000	633352	633632	Turn-up time (dBm)	MPR (dB)	
15	QPSK	1	1	19.06	19.12	19.01	20.0	0.0	
Channel									
		Frequency (MHz)		632500	633352	633632	Turn-up time (dBm)	MPR (dB)	
10	QPSK	1	1	19.02	19.05	19.14	20.0	0.0	



Par27Q n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	22.08					
100	PQ2 BPSK	1	137		22.10		23.0	0.0	
100	PQ2 BPSK	1	271		22.00				
100	PQ2 BPSK	135	0		22.05		23.0	0.0	
100	PQ2 BPSK	135	69		22.00		23.0	0.0	
100	PQ2 BPSK	135	138		22.09				
100	PQ2 BPSK	270	0		22.00		23.0	0.0	
100	QPSK	1	1	22.12					
100	QPSK	1	137		21.97		23.0	0.0	
100	QPSK	1	271		22.10				
100	QPSK	135	0		22.03				
100	QPSK	135	69		22.09		23.0	0.0	
100	QPSK	135	138		22.06				
100	QPSK	270	0		21.99		23.0	0.0	
100	16QAM	1	1		22.10		23.0	0.0	
100	64QAM	1	1		21.98		23.0	0.0	
100	256QAM	1	1		22.03		23.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.03	635332	350498	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3496.02	353329	358000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3499.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.99	22.03	22.01	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.05	635332	350500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495.98	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3495.98	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.11	22.03	22.11	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.10	635332	350498	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.10	22.01	22.03	23.0	0.0	

Par270 n77_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	19.07	19.05	19.01			
100	PQ2 BPSK	1	137	18.93	19.06	18.96	20.0	0.0	
100	PQ2 BPSK	1	271	19.05	19.11	18.98			
100	PQ2 BPSK	135	0	19.04	19.01	18.99	20.0	0.0	
100	PQ2 BPSK	135	69	19.00	19.09	18.96	20.0	0.0	
100	PQ2 BPSK	135	138	19.00	19.12	19.00	20.0	0.0	
100	PQ2 BPSK	270	0	18.96	19.08	18.99			
100	QPSK	1	1	19.03	19.15	19.02			
100	QPSK	1	137	18.94	19.10	18.98	20.0	0.0	
100	QPSK	1	271	19.06	19.11	18.99			
100	QPSK	135	0	18.96	19.04	18.97			
100	QPSK	135	69	19.01	19.14	18.98	20.0	0.0	
100	QPSK	135	138	18.94	19.02	18.91			
100	QPSK	270	0	19.06	19.07	19.00	20.0	0.0	
100	16QAM	1	1	18.98	19.06	18.93	20.0	0.0	
100	64QAM	1	1	19.07	19.14	18.99	20.0	0.0	
100	256QAM	1	1	18.99	19.09	18.91	20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.9986	19.0000	18.9532	Tune-up limit (dBm)	MPR (dB)	
				3748.02	3840	3934.86			
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.9334	19.0000	18.9266	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3840	3939.99			
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.95	19.05	18.98	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.04	19.10	18.93	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.9989	19.0000	18.9991	Tune-up limit (dBm)	MPR (dB)	
				3750.02	3840	3949.98			
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.0119	19.05	18.92	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.9334	19.0000	18.9596	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3840	3949.99			
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.95	19.03	19.00	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.9993	19.0000	18.9440	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3840	3949.99			
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.02	19.14	18.98	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.9688	19.0000	18.9432	Tune-up limit (dBm)	MPR (dB)	
				3711.02	3840	3934.86			
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.0234	19.0000	18.9566	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3840	3969.99			
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.99	19.14	18.91	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.0759	19.10	18.96	20.0	0.0	
				3707.52	3840	3972.48			
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.0100	19.0000	18.9500	Tune-up limit (dBm)	MPR (dB)	
				3705.02	3840	3975.00			
Channel									
Frequency (MHz)									
0	QPSK	1	1	18.96	19.13	18.92	20.0	0.0	

Par270 n77_Ant 7_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	20.99	21.03	20.90			
100	PQ2 BPSK	1	137	20.93	20.94	20.87	22.0	0.0	
100	PQ2 BPSK	1	271	20.91	20.99	20.84			
100	PQ2 BPSK	135	0	20.96	20.98	20.86	22.0	0.0	
100	PQ2 BPSK	135	69	20.90	20.91	20.83	22.0	0.0	
100	PQ2 BPSK	135	138	20.88	20.92	20.84	22.0	0.0	
100	PQ2 BPSK	270	0	20.97	20.92	20.84			
100	QPSK	1	1	21.00	21.05	20.95			
100	QPSK	1	137	20.90	21.02	20.81	22.0	0.0	
100	QPSK	1	271	20.89	20.93	20.83			
100	QPSK	135	0	20.85	20.95	20.86			
100	QPSK	135	69	20.97	20.99	20.84	22.0	0.0	
100	QPSK	135	138	20.88	20.94	20.86			
100	QPSK	270	0	20.92	20.95	20.84	22.0	0.0	
100	16QAM	1	1	20.98	20.98	20.94	22.0	0.0	
100	64QAM	1	1	20.91	21.03	20.82	22.0	0.0	
100	256QAM	1	1	20.75	20.75	20.71	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.91	21.03	20.87	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.86	20.97	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.85	21.03	20.89	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.87	20.97	20.90	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.99	20.99	20.83	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.89	20.91	20.89	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.81	21.02	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.94	20.93	20.94	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.96	21.03	20.81	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.87	21.02	20.93	22.0	0.0	

Par27Q n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	19.11	19.17		20.0
100	PQ2 BPSK	1	137	18.09			0.0
100	PQ2 BPSK	1	271	19.16			0.0
100	PQ2 BPSK	135	69	19.12			0.0
100	PQ2 BPSK	135	138	19.16			0.0
100	PQ2 BPSK	270	0	19.14			0.0
100	QPSK	1	1	19.18			20.0
100	QPSK	1	137	19.06			0.0
100	QPSK	1	271	19.07			0.0
100	QPSK	135	0	19.15			0.0
100	QPSK	135	69	19.16			0.0
100	QPSK	135	138	19.05			0.0
100	QPSK	270	0	19.16			0.0
100	16QAM	1	1	19.15			0.0
100	64QAM	1	1	19.03			0.0
100	256QAM	1	1	19.04			0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	19.10	19.10	19.09	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.10	19.16	19.05	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.11	19.17	19.10	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.16	19.07	19.04	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.15	19.10	19.11	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.11	19.14	19.16	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.10	19.09	19.05	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.06	19.16	19.05	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.06	19.04	19.10	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.16	19.11	19.04	20.0

Par27Q n77_Ant 7_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	20.81	20.83		22.0
100	PQ2 BPSK	1	137	20.83			0.0
100	PQ2 BPSK	1	271	20.74			0.0
100	PQ2 BPSK	135	0	20.76			0.0
100	PQ2 BPSK	135	69	20.78			0.0
100	PQ2 BPSK	135	138	20.77			0.0
100	PQ2 BPSK	270	0	20.85			0.0
100	QPSK	1	1	20.89			22.0
100	QPSK	1	137	20.86			0.0
100	QPSK	1	271	20.82			0.0
100	QPSK	135	0	20.81			0.0
100	QPSK	135	69	20.82			0.0
100	QPSK	135	138	20.80			0.0
100	QPSK	270	0	20.84			0.0
100	16QAM	1	1	20.81			0.0
100	64QAM	1	1	20.75			0.0
100	256QAM	1	1	20.85			0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.82	20.81	20.77	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.72	20.81	20.74	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.74	20.85	20.63	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.67	20.76	20.71	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.65	20.85	20.76	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.74	20.77	20.73	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.71	20.79	20.76	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.64	20.76	20.67	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.60	20.80	20.69	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.61	20.79	20.69	22.0

Par27O n77_Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	15.37	15.52	15.48	17.0
100	PQ2 BPSK	1	137	15.39	15.51	15.41	0.0
100	PQ2 BPSK	1	271	15.38	15.46	15.41	0.0
100	PQ2 BPSK	135	0	15.38	15.48	15.54	17.0
100	PQ2 BPSK	135	69	15.46	15.57	15.49	0.0
100	PQ2 BPSK	135	138	15.39	15.45	15.46	0.0
100	PQ2 BPSK	270	0	15.41	15.46	15.53	17.0
100	QPSK	1	1	15.51	15.50	15.55	17.0
100	QPSK	1	137	15.47	15.59	15.40	0.0
100	QPSK	1	271	15.39	15.53	15.41	0.0
100	QPSK	135	0	15.39	15.52	15.50	0.0
100	QPSK	135	69	15.49	15.58	15.53	17.0
100	QPSK	135	138	15.37	15.45	15.46	0.0
100	QPSK	270	0	15.38	15.59	15.44	17.0
100	16QAM	1	1	15.46	15.56	15.48	17.0
100	64QAM	1	1	15.49	15.58	15.53	17.0
100	256QAM	1	1	15.38	15.56	15.41	17.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.43	15.52	15.50	17.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.50	15.54	15.43	17.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.43	15.47	15.48	17.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.41	15.51	15.51	17.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.40	15.47	15.42	17.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.47	15.58	15.42	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.38	15.53	15.48	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.43	15.54	15.40	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.38	15.56	15.44	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.40	15.52	15.42	17.0



Par270 n77_Ant 8_HPUE									
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	PQ2 BPSK	1	1	17.54	17.65	17.52			
100	PQ2 BPSK	1	137	17.54	17.58	17.55	19.0	0.0	
100	PQ2 BPSK	1	271	17.47	17.59	17.47			
100	PQ2 BPSK	135	0	17.52	17.64	17.49	19.0	0.0	
100	PQ2 BPSK	135	69	17.47	17.60	17.36	19.0	0.0	
100	PQ2 BPSK	135	138	17.48	17.58	17.51			
100	PQ2 BPSK	270	0	17.37	17.67	17.53	19.0	0.0	
100	QPSK	1	1	17.53	17.68	17.53			
100	QPSK	1	137	17.48	17.62	17.50	19.0	0.0	
100	QPSK	1	271	17.45	17.59	17.50			
100	QPSK	135	0	17.50	17.61	17.43			
100	QPSK	135	69	17.45	17.64	17.41	19.0	0.0	
100	QPSK	135	138	17.43	17.62	17.46			
100	QPSK	270	0	17.52	17.60	17.45	19.0	0.0	
100	16QAM	1	1	17.53	17.52	17.64	19.0	0.0	
100	64QAM	1	1	17.52	17.54	17.36	19.0	0.0	
100	256QAM	1	1	17.56	16.89	17.63	18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.62	17.60	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	17.66	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.60	17.60	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.64	17.58	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.64	17.60	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.65	17.62	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.60	17.59	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.64	17.61	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.58	17.63	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.63	17.59	17.67	19.0	0.0	

Par270 n77_Ant 8									
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	PQ2 BPSK	1	1		14.83				
100	PQ2 BPSK	1	137		14.80		16.5	0.0	
100	PQ2 BPSK	1	271		14.91				
100	PQ2 BPSK	135	0		14.81		16.5	0.0	
100	PQ2 BPSK	135	69		14.85		16.5	0.0	
100	PQ2 BPSK	135	138		14.91		16.5	0.0	
100	PQ2 BPSK	270	0		14.88				
100	QPSK	1	1		14.85				
100	QPSK	1	137		14.89		16.5	0.0	
100	QPSK	1	271		14.87				
100	QPSK	135	0		14.82				
100	QPSK	135	69		14.89		16.5	0.0	
100	QPSK	135	138		14.84				
100	QPSK	270	0		14.87		16.5	0.0	
100	16QAM	1	1		14.92		16.5	0.0	
100	64QAM	1	1		14.93		16.5	0.0	
100	256QAM	1	1		14.93		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.80	14.80	14.79	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.82	14.89	14.81	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.83	14.87	14.83	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.82	14.81	14.81	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.75	14.88	14.79	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.80	14.84	14.81	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.87	14.81	14.90	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.82	14.83	14.79	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.83	14.82	14.89	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82	14.80	14.88	Tune-up limit (dBm)	MPR (dB)	

Par270Q n77_Ant 8_HPUE									
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	PQ2 BPSK	1	1		16.85				
100	PQ2 BPSK	1	137		17.00		18.5	0.0	
100	PQ2 BPSK	1	271		16.96				
100	PQ2 BPSK	135	0		16.98		18.5	0.0	
100	PQ2 BPSK	135	69		16.97		18.5	0.0	
100	PQ2 BPSK	135	138		17.00				
100	PQ2 BPSK	270	0		16.88		18.5	0.0	
100	QPSK	1	1		17.03				
100	QPSK	1	137		16.98		18.5	0.0	
100	QPSK	1	271		16.91				
100	QPSK	135	0		16.92				
100	QPSK	135	69		17.06		18.5	0.0	
100	QPSK	135	138		16.98				
100	QPSK	270	0		16.96		18.5	0.0	
100	16QAM	1	1		16.95		18.5	0.0	
100	64QAM	1	1		17.00		18.5	0.0	
100	256QAM	1	1		16.98		18.0	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.83	16.90	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.94	16.89	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.92	17.00	16.95	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.88	16.98	16.90	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.92	16.97	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.91	16.94	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.90	16.97	16.93	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.87	17.02	16.88	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.90	17.09	16.83	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.88	17.01	16.89	18.5	0.0	



Par270 n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	17.74	17.79	17.72			
100	PQ2 BPSK	1	137	17.68	17.76	17.73	19.0	0.0	
100	PQ2 BPSK	1	271	17.66	17.69	17.66			
100	PQ2 BPSK	135	0	17.71	17.73	17.61	19.0	0.0	
100	PQ2 BPSK	135	69	17.70	17.70	17.65	19.0	0.0	
100	PQ2 BPSK	135	138	17.69	17.70	17.70			
100	PQ2 BPSK	270	0	17.68	17.68	17.65	19.0	0.0	
100	QPSK	1	1	17.66	17.62	17.70			
100	QPSK	1	137	17.66	17.76	17.64	19.0	0.0	
100	QPSK	1	271	17.79	17.67	17.75			
100	QPSK	135	0	17.68	17.69	17.65			
100	QPSK	135	69	17.70	17.70	17.69	19.0	0.0	
100	QPSK	135	138	17.70	17.67	17.62			
100	QPSK	270	0	17.74	17.77	17.68	19.0	0.0	
100	16QAM	1	1	17.78	17.71	17.61	19.0	0.0	
100	64QAM	1	1	17.66	17.77	17.66	19.0	0.0	
100	256QAM	1	1	17.66	17.81	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.69	17.69	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	17.71	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.76	17.81	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.79	17.70	17.73	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.72	17.73	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.71	17.81	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.73	17.69	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.71	17.67	17.66	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.74	17.79	17.75	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.77	17.70	17.62	19.0	0.0	

Par270 n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	19.63	19.65	19.59			
100	PQ2 BPSK	1	137	19.58	19.63	19.68	21.0	0.0	
100	PQ2 BPSK	1	271	19.55	19.68	19.59			
100	PQ2 BPSK	135	0	19.66	19.65	19.66	21.0	0.0	
100	PQ2 BPSK	135	69	19.61	19.65	19.58	21.0	0.0	
100	PQ2 BPSK	135	138	19.58	19.65	19.62	21.0	0.0	
100	PQ2 BPSK	270	0	19.68	19.73	19.62			
100	QPSK	1	1	19.70	19.75	19.72			
100	QPSK	1	137	19.62	19.69	19.68	21.0	0.0	
100	QPSK	1	271	19.68	19.72	19.60			
100	QPSK	135	0	19.67	19.69	19.69			
100	QPSK	135	69	19.66	19.71	19.74	21.0	0.0	
100	QPSK	135	138	19.66	19.65	19.66			
100	QPSK	270	0	19.61	19.62	19.58	21.0	0.0	
100	16QAM	1	1	19.67	19.73	19.67	21.0	0.0	
100	64QAM	1	1	19.55	19.72	19.69	21.0	0.0	
100	256QAM	1	1	19.11	19.76	19.74	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.50	19.63	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.68	19.67	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.66	19.67	19.70	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.67	19.71	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.59	19.68	19.64	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.60	19.62	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.64	19.68	19.58	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.55	19.65	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.61	19.69	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.61	19.71	19.62	21.0	0.0	

Par27Q n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1		17.67				
100	PQ2 BPSK	1	137		17.75		19.0	0.0	
100	PQ2 BPSK	1	271		17.76				
100	PQ2 BPSK	135	0		17.73		19.0	0.0	
100	PQ2 BPSK	135	69		17.76		19.0	0.0	
100	PQ2 BPSK	135	138		17.83				
100	PQ2 BPSK	270	0		17.85		19.0	0.0	
100	QPSK	1	1		17.68				
100	QPSK	1	137		17.76		19.0	0.0	
100	QPSK	1	271		17.80				
100	QPSK	135	0		17.73				
100	QPSK	135	69		17.61		19.0	0.0	
100	QPSK	135	138		17.74				
100	QPSK	270	0		17.75		19.0	0.0	
100	16QAM	1	1		17.67		19.0	0.0	
100	64QAM	1	1		17.77		19.0	0.0	
100	256QAM	1	1		17.62		19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63500	63532	63566	Time-up limit (dBm)	MPR (dB)	
				3496.0	3499.98	3504.99	(dBm)		0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	63568	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.02	3499.98	3510	(dBm)		0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	63700	63532	63498	Time-up limit (dBm)	MPR (dB)	
				3496.04	3499.98	3514.98	(dBm)		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	63832	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.06	3499.98	3518.98	(dBm)		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	63964	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.08	3499.98	3522.98	(dBm)		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	64096	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.10	3499.98	3526.98	(dBm)		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	64228	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.12	3499.98	3530.98	(dBm)		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	64360	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.14	3499.98	3534.98	(dBm)		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	64492	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.16	3499.98	3538.98	(dBm)		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	64624	63532	63500	Time-up limit (dBm)	MPR (dB)	
				3496.18	3499.98	3542.98	(dBm)		0.0



Par27Q n77_Ant 10_HPUE								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	19.73	3499.98		21.0	0.0
100	PQ2 BPSK	1	137	19.70				
100	PQ2 BPSK	1	271	19.81				
100	PQ2 BPSK	135	0	19.78			21.0	0.0
100	PQ2 BPSK	135	69	19.72			21.0	0.0
100	PQ2 BPSK	135	138	19.69			21.0	0.0
100	PQ2 BPSK	270	0	19.69			21.0	0.0
100	QPSK	1	1	19.83				
100	QPSK	1	137	19.75				
100	QPSK	1	271	19.68			21.0	0.0
100	QPSK	135	0	19.78				
100	QPSK	135	69	19.78				
100	QPSK	135	138	19.68			21.0	0.0
100	QPSK	270	0	19.68				
100	16QAM	1	1	19.79			21.0	0.0
100	64QAM	1	1	19.73			21.0	0.0
100	256QAM	1	1	19.17			20.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.71	19.82	19.78	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.76	19.71	19.80	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.71	19.68	19.82	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.71	19.77	19.74	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.69	19.70	19.74	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.70	19.70	19.77	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.71	19.70	19.77	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.71	19.68	19.81	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.70	19.72	19.72	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.82	19.70	19.81	21.0	0.0

Par270 n78_Ant 4								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	19.29	3750		20.0	0.0
100	PQ2 BPSK	1	137	19.23				
100	PQ2 BPSK	1	271	19.22				
100	PQ2 BPSK	135	0	19.19			20.0	0.0
100	PQ2 BPSK	135	69	19.21			20.0	0.0
100	PQ2 BPSK	135	138	19.27			20.0	0.0
100	PQ2 BPSK	270	0	19.24			20.0	0.0
100	QPSK	1	1	19.28				
100	QPSK	1	137	19.21				
100	QPSK	1	271	19.20			20.0	0.0
100	QPSK	135	0	19.22			20.0	0.0
100	QPSK	135	69	19.24				
100	QPSK	135	138	19.21				
100	QPSK	270	0	19.13			20.0	0.0
100	16QAM	1	1	19.25			20.0	0.0
100	64QAM	1	1	19.19			20.0	0.0
100	256QAM	1	1	19.14			20.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.27	19.24	19.22	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.25	19.10	19.10	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.23	19.18	19.11	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.23	19.24	19.12	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.24	19.23	19.13	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.23	19.22	19.20	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.13	19.14	19.22	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.13	19.24	19.19	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.14	19.24	19.20	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.16	19.20	19.15	20.0	0.0

Par270 n78_Ant 4_HPUE								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	21.89	3750		23.0	0.0
100	PQ2 BPSK	1	137	21.93				
100	PQ2 BPSK	1	271	21.88				
100	PQ2 BPSK	135	0	21.90			23.0	0.0
100	PQ2 BPSK	135	69	21.93			23.0	0.0
100	PQ2 BPSK	135	138	21.98			23.0	0.0
100	PQ2 BPSK	270	0	21.88			23.0	0.0
100	QPSK	1	1	22.00				
100	QPSK	1	137	21.96				
100	QPSK	1	271	21.99			23.0	0.0
100	QPSK	135	0	21.90			23.0	0.0
100	QPSK	135	69	21.97				
100	QPSK	135	138	21.95				
100	QPSK	270	0	21.86			23.0	0.0
100	16QAM	1	1	21.93			23.0	0.0
100	64QAM	1	1	21.86			23.0	0.0
100	256QAM	1	1	21.97			23.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.89	21.84	21.92	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.95	21.92	21.97	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.82	21.98	21.94	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.82	21.94	21.94	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.93	21.92	21.93	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.87	21.97	21.88	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.83	21.94	21.93	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.85	21.85	21.87	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.96	21.92	21.85	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.86	21.96	21.84	23.0	0.0

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Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332	633332			
Frequency (MHz)				3493.98					
100	PQ2 BPSK	1	1	18.97					
100	PQ2 BPSK	1	137	19.05			20.0	0.0	
100	PQ2 BPSK	1	271	19.06					
100	PQ2 BPSK	135	0	18.97			20.0	0.0	
100	PQ2 BPSK	135	69	18.97			20.0	0.0	
100	PQ2 BPSK	135	138	18.96			20.0	0.0	
100	PQ2 BPSK	270	0	18.97					
100	QPSK	1	1	19.10					
100	QPSK	1	137	19.08			20.0	0.0	
100	QPSK	1	271	19.08					
100	QPSK	135	0	18.95					
100	QPSK	135	69	19.05			20.0	0.0	
100	QPSK	135	138	19.03					
100	QPSK	270	0	19.08			20.0	0.0	
100	16QAM	1	1	19.05			20.0	0.0	
100	64QAM	1	1	18.95			20.0	0.0	
100	256QAM	1	1	18.95			20.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	18.93	18.93	19.00	20.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	18.96	19.05	19.06	20.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.04	19.03	19.01	20.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3484	3499.98	3518.98			
60	QPSK	1	1	19.84	19.06	19.06	20.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3479.02	3499.98	3529			
50	QPSK	1	1	18.90	19.05	19.06	20.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.01	19.03	19.02	20.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	19.01	19.00	19.02	20.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	18.99	19.08	19.06	20.0	0.0	
Channel				630300	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1	18.92	19.04	18.94	20.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1	18.98	19.06	18.95	20.0	0.0	

Part27Q n78_Ant 4_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332	633332			
Frequency (MHz)				3499.98					
100	PQ2 BPSK	1	1	21.99					
100	PQ2 BPSK	1	137	21.92			23.0	0.0	
100	PQ2 BPSK	1	271	21.92					
100	PQ2 BPSK	135	0	21.94			23.0	0.0	
100	PQ2 BPSK	135	69	21.93			23.0	0.0	
100	PQ2 BPSK	135	138	21.99			23.0	0.0	
100	PQ2 BPSK	270	0	21.99					
100	QPSK	1	1	22.05					
100	QPSK	1	137	21.98			23.0	0.0	
100	QPSK	1	271	22.01					
100	QPSK	135	0	21.92					
100	QPSK	135	69	21.99			23.0	0.0	
100	QPSK	135	138	21.97					
100	QPSK	270	0	21.94			23.0	0.0	
100	16QAM	1	1	21.95			23.0	0.0	
100	64QAM	1	1	21.91			23.0	0.0	
100	256QAM	1	1	21.93			23.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	21.96	21.91	22.02	23.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	21.99	21.91	22.00	23.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	21.99	21.97	22.03	23.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3484	3499.98	3518.98			
60	QPSK	1	1	22.03	21.95	22.01	23.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3479.02	3499.98	3529			
50	QPSK	1	1	22.01	21.90	21.98	23.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	22.00	22.02	21.91	23.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	21.97	21.95	21.91	23.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	21.98	21.90	22.02	23.0	0.0	
Channel				630300	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1	21.98	21.90	22.02	23.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1	21.95	21.93	21.98	23.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modula Ch. / Freq. (650000)	Power High Ch. / Freq. (650000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.07	18.07		
100	PI2 BPSK	1	137	18.98	18.98	20.0	0.0
100	PI2 BPSK	1	271	19.07	19.07		
100	PI2 BPSK	135	0	19.07	19.07	20.0	0.0
100	PI2 BPSK	135	69	18.98	18.98	20.0	0.0
100	PI2 BPSK	135	138	18.98	18.98	20.0	0.0
100	PI2 BPSK	270	0	19.01	19.01		
100	QPSK	1	1	18.08	18.08		
100	QPSK	1	137	18.93	18.93	20.0	0.0
100	QPSK	1	271	19.07	19.07		
100	QPSK	135	0	18.97	18.97		
100	QPSK	135	69	18.08	18.08	20.0	0.0
100	QPSK	135	138	18.99	18.99		
100	QPSK	270	0	18.98	18.98	20.0	0.0
100	16QAM	1	1	18.97	18.97	20.0	0.0
100	64QAM	1	1	18.98	18.98	20.0	0.0
100	256QAM	1	1	19.00	19.00	20.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.99	19.00	19.00	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.05	18.94	19.05	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.98	19.03	18.98	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.97	19.07	18.99	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.95	18.94	19.01	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.04	19.00	19.00	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.97	19.05	18.98	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.00	19.07	19.00	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.02	19.03	19.01	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.96	18.96	18.97	0.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modula Ch. / Freq. (650000)	Power High Ch. / Freq. (650000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.89	20.89		
100	PI2 BPSK	1	137	20.91	20.91	22.0	0.0
100	PI2 BPSK	1	271	21.01	21.01		
100	PI2 BPSK	135	0	20.98	20.98	22.0	0.0
100	PI2 BPSK	135	69	21.00	21.00	22.0	0.0
100	PI2 BPSK	135	138	20.90	20.90	22.0	0.0
100	PI2 BPSK	270	0	20.93	20.93		
100	QPSK	1	1	21.03	21.03		
100	QPSK	1	137	20.98	20.98	22.0	0.0
100	QPSK	1	271	20.94	20.94		
100	QPSK	135	0	20.96	20.96		
100	QPSK	135	69	20.99	20.99	22.0	0.0
100	QPSK	135	138	20.91	20.91		
100	QPSK	270	0	20.98	20.98	22.0	0.0
100	16QAM	1	1	20.89	20.89	22.0	0.0
100	64QAM	1	1	20.92	20.92	22.0	0.0
100	256QAM	1	1	20.89	20.89	22.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.93	20.98	20.91	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.94	20.99	21.00	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	21.01	20.94	20.97	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.01	20.90	21.02	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.91	20.90	20.97	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.90	20.88	20.83	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.95	20.97	20.98	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.99	21.01	20.92	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.98	20.90	21.02	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.85	21.01	20.90	0.0



Part27Q n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	3499.98				
Frequency (MHz)				18.13					
100	PI2 BPSK	1	1		19.05		20.0	0.0	
100	PI2 BPSK	1	137		19.05				
100	PI2 BPSK	1	271		19.05				
100	PI2 BPSK	135	0		19.14		20.0	0.0	
100	PI2 BPSK	135	69		19.12		20.0	0.0	
100	PI2 BPSK	135	138		19.08		20.0	0.0	
100	PI2 BPSK	270	0		19.08				
100	QPSK	1	1		19.15				
100	QPSK	1	137		19.15		20.0	0.0	
100	QPSK	1	271		19.07				
100	QPSK	135	0		19.01				
100	QPSK	135	69		19.10		20.0	0.0	
100	QPSK	135	138		19.05		20.0	0.0	
100	QPSK	270	0		19.04		20.0	0.0	
100	16QAM	1	1		19.01		20.0	0.0	
100	64QAM	1	1		19.10		20.0	0.0	
100	256QAM	1	1		19.12		20.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1		19.02	19.11	19.12	20.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1		19.02	19.07	19.04	20.0	0.0
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1		19.08	19.08	19.05	20.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3499.98	3518.99			
60	QPSK	1	1		19.13	19.14	19.14	20.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1		19.07	19.15	19.01	20.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1		19.02	19.03	19.02	20.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1		19.15	19.03	19.04	20.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1		19.01	19.14	19.14	20.0	0.0
Channel				630300	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1		19.12	19.11	19.11	20.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1		19.04	19.13	19.09	20.0	0.0

Part27Q n78_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	3499.98				
Frequency (MHz)				20.73					
100	PI2 BPSK	1	1		20.83		22.0	0.0	
100	PI2 BPSK	1	137		20.83				
100	PI2 BPSK	1	271		20.80				
100	PI2 BPSK	135	0		20.85		22.0	0.0	
100	PI2 BPSK	135	69		20.73		22.0	0.0	
100	PI2 BPSK	135	138		20.84		22.0	0.0	
100	PI2 BPSK	270	0		20.83				
100	QPSK	1	1		20.88				
100	QPSK	1	137		20.77		22.0	0.0	
100	QPSK	1	271		20.74				
100	QPSK	135	0		20.73				
100	QPSK	135	69		20.77		22.0	0.0	
100	QPSK	135	138		20.75				
100	QPSK	270	0		20.76		22.0	0.0	
100	16QAM	1	1		20.76		22.0	0.0	
100	64QAM	1	1		20.81		22.0	0.0	
100	256QAM	1	1		20.77		22.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1		20.80	20.89	20.84	22.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1		20.82	20.74	20.78	22.0	0.0
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1		20.80	20.75	20.86	22.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3499.98	3518.99			
60	QPSK	1	1		20.86	20.86	20.81	22.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1		20.83	20.84	20.82	22.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1		20.80	20.78	20.74	22.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1		20.75	20.76	20.67	22.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1		20.85	20.82	20.75	22.0	0.0
Channel				630300	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1		20.80	20.85	20.80	22.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1		20.85	20.80	20.82	22.0	0.0

Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				3750			
100	PIQ2 BPSK	1	1	15.53			
100	PIQ2 BPSK	1	137	15.47		17.0	0.0
100	PIQ2 BPSK	1	271	15.50			
100	PIQ2 BPSK	135	0	15.44		17.0	0.0
100	PIQ2 BPSK	135	69	15.50		17.0	0.0
100	PIQ2 BPSK	135	138	15.48		17.0	0.0
100	PIQ2 BPSK	270	0	15.48			
100	QPSK	1	1	15.58			
100	QPSK	1	137	15.44		17.0	0.0
100	QPSK	1	271	15.43			
100	QPSK	135	0	15.45			
100	QPSK	135	69	15.51		17.0	0.0
100	QPSK	135	138	15.46			
100	QPSK	270	0	15.43		17.0	0.0
100	16QAM	1	1	15.55		17.0	0.0
100	64QAM	1	1	15.52		17.0	0.0
100	256QAM	1	1	15.53		17.0	0.0
Channel				649698	650000	650332	MFR (dB)
Frequency (MHz)				3743.02	3750	3754.98	
90	QPSK	1	1	15.44	15.50	15.47	17.0 0.0
Channel				649334	650000	650666	MFR (dB)
Frequency (MHz)				3740.01	3750	3760.99	
80	QPSK	1	1	15.48	15.47	15.53	17.0 0.0
Channel				649550	650000	651000	MFR (dB)
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	15.41	15.44	15.47	17.0 0.0
Channel				649698	650000	651332	MFR (dB)
Frequency (MHz)				3750.00	3750	3760.98	
60	QPSK	1	1	15.56	15.43	15.47	17.0 0.0
Channel				648334	650000	651666	MFR (dB)
Frequency (MHz)				3725.01	3750	3774.99	
50	QPSK	1	1	15.44	15.57	15.56	17.0 0.0
Channel				648000	650000	652000	MFR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	15.51	15.50	15.49	17.0 0.0
Channel				647698	650000	652332	MFR (dB)
Frequency (MHz)				3715.02	3750.00	3764.98	
30	QPSK	1	1	15.48	15.56	15.55	17.0 0.0
Channel				647334	650000	652666	MFR (dB)
Frequency (MHz)				3710.01	3750	3769.99	
20	QPSK	1	1	15.46	15.44	15.44	17.0 0.0
Channel				647168	650000	652832	MFR (dB)
Frequency (MHz)				3707.50	3750	3762.48	
15	QPSK	1	1	15.54	15.53	15.51	17.0 0.0
Channel				647000	650000	653000	MFR (dB)
Frequency (MHz)				3702	3750	3762	
10	QPSK	1	1	15.51	15.52	15.47	17.0 0.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				3750			
100	PIQ2 BPSK	1	1	17.52			
100	PIQ2 BPSK	1	137	17.55		19.0	0.0
100	PIQ2 BPSK	1	271	17.56			
100	PIQ2 BPSK	135	0	17.53		19.0	0.0
100	PIQ2 BPSK	135	69	17.42		19.0	0.0
100	PIQ2 BPSK	135	138	17.51		19.0	0.0
100	PIQ2 BPSK	270	0	17.38			
100	QPSK	1	1	17.58			
100	QPSK	1	137	17.41		19.0	0.0
100	QPSK	1	271	17.40			
100	QPSK	135	0	17.44			
100	QPSK	135	69	17.58		19.0	0.0
100	QPSK	135	138	17.35			
100	QPSK	270	0	17.51		19.0	0.0
100	16QAM	1	1	17.53		19.0	0.0
100	64QAM	1	1	17.53		19.0	0.0
100	256QAM	1	1	16.81		18.5	0.5
Channel				649698	650000	650332	MFR (dB)
Frequency (MHz)				3743.02	3750	3754.98	
90	QPSK	1	1	17.43	17.50	17.44	19.0 0.0
Channel				649334	650000	650666	MFR (dB)
Frequency (MHz)				3740.01	3750	3760.99	
80	QPSK	1	1	17.57	17.44	17.38	19.0 0.0
Channel				649550	650000	651000	MFR (dB)
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	17.40	17.45	17.36	19.0 0.0
Channel				649698	650000	651332	MFR (dB)
Frequency (MHz)				3750.00	3750	3760.98	
60	QPSK	1	1	17.49	17.40	17.39	19.0 0.0
Channel				648334	650000	651666	MFR (dB)
Frequency (MHz)				3725.01	3750	3774.99	
50	QPSK	1	1	17.45	17.53	17.52	19.0 0.0
Channel				648000	650000	652000	MFR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	17.43	17.48	17.41	19.0 0.0
Channel				647698	650000	652332	MFR (dB)
Frequency (MHz)				3715.02	3750.00	3764.98	
30	QPSK	1	1	17.57	17.57	17.35	19.0 0.0
Channel				647334	650000	652666	MFR (dB)
Frequency (MHz)				3710.01	3750	3769.99	
20	QPSK	1	1	17.43	17.40	17.36	19.0 0.0
Channel				647168	650000	652832	MFR (dB)
Frequency (MHz)				3707.50	3750	3762.48	
15	QPSK	1	1	17.39	17.47	17.50	19.0 0.0
Channel				647000	650000	653000	MFR (dB)
Frequency (MHz)				3702	3750	3762	
10	QPSK	1	1	17.57	17.48	17.52	19.0 0.0

Part27Q n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	14.82	3499.98	16.0	0.0
100	PQ2 BPSK	1	137	14.89			
100	PQ2 BPSK	1	271	14.86			
100	PQ2 BPSK	135	0	14.89			
100	PQ2 BPSK	135	69	14.80		16.0	0.0
100	PQ2 BPSK	135	138	14.82			
100	PQ2 BPSK	270	0	14.84			
100	QPSK	1	1	14.82			
100	QPSK	1	137	14.89		16.0	0.0
100	QPSK	1	271	14.86			
100	QPSK	135	0	14.84			
100	QPSK	135	69	14.85			
100	QPSK	135	138	14.75		16.0	0.0
100	QPSK	270	0	14.80			
100	16QAM	1	1	14.80			
100	64QAM	1	1	14.86			
100	256QAM	1	1	14.84		16.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.86	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.88	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.87	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.81	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.87	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.85	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.83	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.89	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.90	3499.98	16.0	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.81	3499.98	16.0	0.0

Part27Q n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	16.80	3499.98	18.0	0.0
100	PQ2 BPSK	1	137	16.82			
100	PQ2 BPSK	1	271	16.93			
100	PQ2 BPSK	135	0	16.84			
100	PQ2 BPSK	135	69	16.83		18.0	0.0
100	PQ2 BPSK	135	138	16.83			
100	PQ2 BPSK	270	0	16.89			
100	QPSK	1	1	16.85			
100	QPSK	1	137	16.81		18.0	0.0
100	QPSK	1	271	16.85			
100	QPSK	135	0	16.82			
100	QPSK	135	69	16.94			
100	QPSK	135	138	16.82		18.0	0.0
100	QPSK	270	0	16.84			
100	16QAM	1	1	16.88			
100	64QAM	1	1	16.93			
100	256QAM	1	1	16.94		17.5	0.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.83	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.82	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.80	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.83	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.83	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.85	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.87	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.99	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.93	3499.98	18.0	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.82	3499.98	18.0	0.0



Par270 n78_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (500000)	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	1770				
100	PQ2 BPSK	1	1		1770		19.0	0.0	
100	PQ2 BPSK	1	137		1771				
100	PQ2 BPSK	1	271		1777				
100	PQ2 BPSK	135	0		1772		19.0	0.0	
100	PQ2 BPSK	135	69		1763		19.0	0.0	
100	PQ2 BPSK	135	138		1777		19.0	0.0	
100	PQ2 BPSK	270	0		1763				
100	QPSK	1	1		1778		19.0	0.0	
100	QPSK	1	137		1766				
100	QPSK	1	271		1763				
100	QPSK	135	0		1785		19.0	0.0	
100	QPSK	135	69		1770				
100	QPSK	135	138		1766				
100	QPSK	270	0		1768		19.0	0.0	
100	16QAM	1	1		1772		19.0	0.0	
100	64QAM	1	1		1773		19.0	0.0	
100	256QAM	1	1		1763		19.0	0.0	
Channel				649698	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1		1771	1774	17.65	19.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.99			
80	QPSK	1	1		1766	1769	17.65	19.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		1776	1770	17.70	19.0	
Channel				648666	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3750	3769.99			
60	QPSK	1	1		1765	1764	17.69	19.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1		1763	1774	17.74	19.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		1768	1771	17.74	19.0	
Channel				647666	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3784.98			
30	QPSK	1	1		1777	1769	17.72	19.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1		1777	1764	17.76	19.0	
Channel				647000	650000	652932	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3750	3792.48			
15	QPSK	1	1		1771	1770	17.64	19.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		1770	1766	17.69	19.0	

Par270 n78_Ant 10_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (500000)	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	1770				
100	PQ2 BPSK	1	1		1770		19.69		
100	PQ2 BPSK	1	137		1772		19.72	21.0	
100	PQ2 BPSK	1	271		1777		19.69		
100	PQ2 BPSK	135	0		1772		19.67	21.0	
100	PQ2 BPSK	135	69		1763		19.62	21.0	
100	PQ2 BPSK	135	138		1777		19.69	21.0	
100	PQ2 BPSK	270	0		1769		19.69		
100	QPSK	1	1		1773		19.73	21.0	
100	QPSK	1	137		1766		19.59		
100	QPSK	1	271		1763		19.67		
100	QPSK	135	0		1780		19.60		
100	QPSK	135	69		1772		19.62	21.0	
100	QPSK	135	138		1766		19.65		
100	QPSK	270	0		1770		19.70	21.0	
100	16QAM	1	1		1770		19.70	21.0	
100	64QAM	1	1		1769		19.68	21.0	
100	256QAM	1	1		1765		19.65	20.5	
Channel				649698	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1		1762	1767	17.65	21.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.99			
80	QPSK	1	1		1759	1764	17.63	21.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		1771	1769	17.61	21.0	
Channel				648666	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3750	3769.99			
60	QPSK	1	1		1771	1765	17.64	21.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1		1765	1772	17.65	21.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		1761	1772	17.61	21.0	
Channel				647666	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3784.98			
30	QPSK	1	1		1770	1770	17.67	21.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1		1771	1759	17.60	21.0	
Channel				647000	650000	652932	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3750	3792.48			
15	QPSK	1	1		1771	1768	17.58	21.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		1769	1771	17.69	21.0	

Part27Q n78_Ant 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				633332		3493.98		
Frequency (MHz)				1773				
100	PQ2 BPSK	1	1		1773		19.0	0.0
100	PQ2 BPSK	1	137		1777			
100	PQ2 BPSK	1	271		1781			
100	PQ2 BPSK	135	0		1777		19.0	0.0
100	PQ2 BPSK	135	69		1782		19.0	0.0
100	PQ2 BPSK	135	138		1777		19.0	0.0
100	PQ2 BPSK	270	0		1782		19.0	0.0
100	QPSK	1	1		1784		19.0	0.0
100	QPSK	1	137		1775			
100	QPSK	1	271		1775			
100	QPSK	135	0		1776		19.0	0.0
100	QPSK	135	69		1783			
100	QPSK	135	138		1782			
100	QPSK	270	0		1771		19.0	0.0
100	16QAM	1	1		1777		19.0	0.0
100	64QAM	1	1		1772		19.0	0.0
100	256QAM	1	1		1775		19.0	0.0
Channel				633000		633666		
Frequency (MHz)				3495		3499.98		
90	QPSK	1	1		1780	1774	19.0	0.0
Channel				632668		633332		
Frequency (MHz)				3490.02		3499.98		
80	QPSK	1	1		1778	1776	17.77	0.0
Channel				633334		633332		
Frequency (MHz)				3495.01		3499.98		
70	QPSK	1	1		1782	1783	17.80	0.0
Channel				632000		633332		
Frequency (MHz)				3490		3499.98		
60	QPSK	1	1		1772	1776	17.81	0.0
Channel				631668		633332		
Frequency (MHz)				3475.02		3499.98		
50	QPSK	1	1		1770	1782	17.72	0.0
Channel				631334		633332		
Frequency (MHz)				3470.01		3499.98		
40	QPSK	1	1		1777	1773	17.74	0.0
Channel				632000		633332		
Frequency (MHz)				3490		3499.98		
30	QPSK	1	1		1782	1770	17.71	0.0
Channel				630668		633332		
Frequency (MHz)				3460.02		3499.98		
20	QPSK	1	1		1775	1775	17.83	0.0
Channel				630000		633332		
Frequency (MHz)				3452.5		3499.98		
15	QPSK	1	1		1778	1777	17.72	0.0
Channel				630334		633332		
Frequency (MHz)				3453.01		3499.98		
10	QPSK	1	1		1775	1769	17.73	0.0

Part27Q n78_Ant 10_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				633332		3499.98		
Frequency (MHz)				1783				
100	PQ2 BPSK	1	1		1783		21.0	0.0
100	PQ2 BPSK	1	137		1776			
100	PQ2 BPSK	1	271		1784			
100	PQ2 BPSK	135	0		1785		21.0	0.0
100	PQ2 BPSK	135	69		1786		21.0	0.0
100	PQ2 BPSK	135	138		1784		21.0	0.0
100	PQ2 BPSK	270	0		1784		21.0	0.0
100	QPSK	1	1		1777		21.0	0.0
100	QPSK	1	137		1775			
100	QPSK	1	271		1780			
100	QPSK	135	0		1772		21.0	0.0
100	QPSK	135	69		1775			
100	QPSK	135	138		1786			
100	QPSK	270	0		1783		21.0	0.0
100	16QAM	1	1		1773		21.0	0.0
100	64QAM	1	1		1783		21.0	0.0
100	256QAM	1	1		1778		20.5	0.5
Channel				633000		633666		
Frequency (MHz)				3495		3499.98		
90	QPSK	1	1		1780	1774	19.71	21.0
Channel				632668		633332		
Frequency (MHz)				3490.02		3499.98		
80	QPSK	1	1		1778	1776	19.63	21.0
Channel				633334		633332		
Frequency (MHz)				3495.01		3499.98		
70	QPSK	1	1		1784	1784	19.71	21.0
Channel				632000		633332		
Frequency (MHz)				3490		3499.98		
60	QPSK	1	1		1776	1776	19.65	21.0
Channel				631668		633332		
Frequency (MHz)				3475.02		3499.98		
50	QPSK	1	1		1772	1772	19.73	21.0
Channel				631334		633332		
Frequency (MHz)				3470.01		3499.98		
40	QPSK	1	1		1780	1780	19.62	21.0
Channel				632000		633332		
Frequency (MHz)				3490		3499.98		
30	QPSK	1	1		1783	1772	19.76	21.0
Channel				630668		633332		
Frequency (MHz)				3460.02		3499.98		
20	QPSK	1	1		1783	1786	19.69	21.0
Channel				630000		633332		
Frequency (MHz)				3452.5		3499.98		
15	QPSK	1	1		1770	1770	19.68	21.0
Channel				630334		633332		
Frequency (MHz)				3453.01		3499.98		
10	QPSK	1	1		1770	1764	19.73	21.0



Full&Default Power Mode

n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	22.76	22.80	22.74	24.0	0.0	
20	Pi/2 BPSK	1	53	22.74	22.75	22.74			
20	Pi/2 BPSK	1	104	22.74	22.78	22.72			
20	Pi/2 BPSK	50	0	22.76	22.81	22.74	24.0	0.0	
20	Pi/2 BPSK	50	26	22.68	22.76	22.64	24.0	0.0	
20	Pi/2 BPSK	50	56	22.75	22.81	22.71	24.0	0.0	
20	Pi/2 BPSK	100	0	22.74	22.80	22.71			
20	QPSK	1	1	22.80	22.86	22.86			
20	QPSK	1	53	22.79	22.87	22.81	24.0	0.0	
20	QPSK	1	104	22.78	22.84	22.83			
20	QPSK	50	0	22.73	22.83	22.66	24.0	0.0	
20	QPSK	50	26	22.76	22.86	22.76	24.0	0.0	
20	QPSK	50	56	22.76	22.84	22.69	24.0	0.0	
20	QPSK	100	0	22.69	22.75	22.65			
20	16QAM	1	1	22.77	22.85	22.73	24.0	0.0	
20	64QAM	1	1	21.77	22.08	22.02	23.0	1.0	
20	256QAM	1	1	19.65	20.00	19.92	21.0	3.0	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.72	22.80	22.74	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	22.78	22.79	22.72	24.0	0.0	
Channel				1862.5	1880	1907.5	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	22.76	22.81	22.71	24.0	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	22.95	22.96	22.92	24.0	0.0	
20	Pi/2 BPSK	1	53	22.84	22.88	22.74			
20	Pi/2 BPSK	1	104	22.83	22.85	22.81			
20	Pi/2 BPSK	50	0	22.92	22.93	22.97	23.5	0.5	
20	Pi/2 BPSK	50	26	22.76	22.80	22.79	24.0	0.0	
20	Pi/2 BPSK	50	56	22.19	22.28	22.15	23.5	0.5	
20	Pi/2 BPSK	100	0	22.25	22.30	22.18			
20	QPSK	1	1	22.90	22.97	22.96			
20	QPSK	1	53	22.84	22.90	22.85	24.0	0.0	
20	QPSK	1	104	22.71	22.83	22.72			
20	QPSK	50	0	21.83	21.85	21.81	23.0	1.0	
20	QPSK	50	26	22.76	22.79	22.71	24.0	0.0	
20	QPSK	50	56	21.83	21.88	21.84	23.0	1.0	
20	QPSK	100	0	21.82	21.87	21.86			
20	16QAM	1	1	21.90	22.02	21.89	23.0	1.0	
20	64QAM	1	1	20.44	20.56	20.51	21.5	2.5	
20	256QAM	1	1	18.40	18.50	18.38	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.78	22.86	22.85	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	22.80	22.84	22.80	24.0	0.0	
Channel				1862.5	1880	1907.5	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	22.90	22.92	22.77	24.0	0.0	

n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	Pi/2 BPSK	1	53	22.88	22.84	22.79			
20	Pi/2 BPSK	1	104	22.81	22.90	22.79			
20	Pi/2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	Pi/2 BPSK	50	26	22.93	22.96	22.85	24.0	0.0	
20	Pi/2 BPSK	50	56	22.90	22.86	22.78	24.0	0.0	
20	Pi/2 BPSK	100	0	22.78	22.81	22.72			
20	QPSK	1	1	22.90	22.97	22.96			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.78	22.77	22.75	24.0	0.0	
20	QPSK	50	26	22.76	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				826	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				836.5	836.5	836.5	(dBm)	(dB)	
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0	



n5_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				824	836.5	848		
20	PI2 BPSK	1	1	22.70	22.72	22.63		
20	PI2 BPSK	1	83	22.67	22.75	22.68	24.0	0.0
20	PI2 BPSK	1	104	22.70	22.73	22.63		
20	PI2 BPSK	50	0	22.60	22.71	22.52	24.0	0.0
20	PI2 BPSK	50	25	22.67	22.75	22.60	24.0	0.0
20	PI2 BPSK	50	56	22.56	22.71	22.58		
20	PI2 BPSK	100	0	22.58	22.64	22.55	24.0	0.0
20	QPSK	1	1	22.71	22.70	22.69		
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0
20	QPSK	1	104	22.67	22.68	22.50		
20	QPSK	50	0	22.61	22.68	22.52	24.0	0.0
20	QPSK	50	28	22.65	22.72	22.57	24.0	0.0
20	QPSK	50	56	22.61	22.67	22.50		
20	QPSK	100	0	22.60	22.64	22.49	24.0	0.0
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5
20	256QAM	1	1	19.33	19.38	19.28	20.5	3.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0
Channel				167300	167300	167300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	836.5	836.5		
5	QPSK	1	1	22.63	22.72	22.49	24.0	0.0

n7_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2250	2254	2258		
40	PI2 BPSK	1	1	22.86	23.03	22.97		
40	PI2 BPSK	1	108	22.80	23.02	22.89	24.0	0.0
40	PI2 BPSK	1	214	22.73	22.97	22.91		
40	PI2 BPSK	108	0	22.52	22.55	22.54	23.5	0.5
40	PI2 BPSK	108	54	22.91	22.84	22.71	24.0	0.0
40	PI2 BPSK	108	108	22.14	22.45	22.42		
40	PI2 BPSK	216	0	22.31	22.52	22.46	23.5	0.5
40	QPSK	1	1	22.90	23.08	22.98		
40	QPSK	1	108	22.74	23.00	22.97	24.0	0.0
40	QPSK	1	214	22.74	22.99	22.95		
40	QPSK	108	0	21.81	22.05	22.03	23.0	1.0
40	QPSK	108	54	22.55	22.83	22.81	24.0	0.0
40	QPSK	108	108	21.72	21.96	21.88		
40	QPSK	216	0	21.83	22.06	22.01	23.0	1.0
40	16QAM	1	1	21.87	22.10	21.95	23.0	1.0
40	64QAM	1	1	20.52	20.77	20.68	21.5	2.5
40	256QAM	1	1	18.62	18.85	18.76	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2210	2254	2298		
30	QPSK	1	1	22.71	22.99	22.90	24.0	0.0
Channel				502500	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.70	23.02	23.04	24.0	0.0
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.67	22.99	23.01	24.0	0.0
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.65	23.09	23.02	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2504	2535	2566		
10	QPSK	1	1	22.71	23.03	22.93	24.0	0.0
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.67	23.00	23.04	24.0	0.0

n7_Ant 9								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2250	2254	2258		
40	PI2 BPSK	1	1	23.03	23.05	23.01		
40	PI2 BPSK	1	108	23.00	23.02	22.98	24.0	0.0
40	PI2 BPSK	1	214	23.02	23.04	22.92		
40	PI2 BPSK	108	0	22.89	22.96	22.98	24.0	0.0
40	PI2 BPSK	108	54	22.88	23.02	22.99	24.0	0.0
40	PI2 BPSK	108	108	22.92	22.92	22.92		
40	PI2 BPSK	216	0	22.96	23.01	22.88	24.0	0.0
40	QPSK	1	1	22.91	23.07	23.03		
40	QPSK	1	108	22.95	22.97	22.98	24.0	0.0
40	QPSK	1	214	22.93	22.93	22.93		
40	QPSK	108	0	22.87	22.94	22.83	24.0	0.0
40	QPSK	108	54	22.91	22.98	22.95	24.0	0.0
40	QPSK	108	108	22.87	22.93	22.94		
40	QPSK	216	0	22.86	22.93	22.86	24.0	0.0
40	16QAM	1	1	22.92	22.98	22.98	24.0	0.0
40	64QAM	1	1	21.79	21.89	21.78	23.0	1.0
40	256QAM	1	1	20.38	20.46	20.43	21.0	3.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2210	2254	2298		
30	QPSK	1	1	22.92	22.96	22.94	24.0	0.0
Channel				502500	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.89	22.95	22.96	24.0	0.0
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.88	22.94	22.98	24.0	0.0
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.91	22.94	22.96	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2504	2535	2566		
10	QPSK	1	1	22.94	22.96	22.93	24.0	0.0
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.92	22.95	22.97	24.0	0.0

n12_Ant 0									
BW (MHz)	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)				701.5	707.5	713.5			
15	PI2 BPSK	1	1	22.85	22.95	22.97	24.0	0.0	
15	PI2 BPSK	1	40	22.87	22.83	22.77			
15	PI2 BPSK	1	77	22.79	22.87	22.84			
15	PI2 BPSK	36	0	22.85	22.80	22.69	24.0	0.0	
15	PI2 BPSK	36	22	22.81	22.86	22.79	24.0	0.0	
15	PI2 BPSK	36	43	22.71	22.81	22.75			
15	PI2 BPSK	75	0	22.74	22.85	22.71	24.0	0.0	
15	QPSK	1	1	22.96	22.92	22.84			
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70			
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0	
15	QPSK	36	22	22.77	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.73	22.78	22.69			
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.79	22.83	22.76	24.0	0.0	
15	16QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel				140800	141500	142200	Tune-up limit	MPR	
Frequency (MHz)				704	707.5	711	(dBm)	(dB)	
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit	MPR	
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)	
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	23.31	23.35	23.34			
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0	
15	PI2 BPSK	1	77	23.26	23.33	23.31			
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0	
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0	
15	PI2 BPSK	36	43	23.11	23.24	23.17			
15	PI2 BPSK	75	0	23.21	23.30	23.17	24.0	0.0	
15	QPSK	1	1	23.27	23.27	23.26			
15	QPSK	1	40	23.15	23.22	23.19	24.0	0.0	
15	QPSK	1	77	23.11	23.27	23.18			
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0	
15	QPSK	36	22	23.21	23.25	23.24	24.0	0.0	
15	QPSK	36	43	23.15	23.23	23.20			
15	QPSK	75	0	23.12	23.20	23.23	24.0	0.0	
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0	
15	16QAM	1	1	22.13	22.19	22.17	22.5	1.5	
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5	
Channel				140800	141500	142200	Tune-up limit	MPR	
Frequency (MHz)				704	707.5	711	(dBm)	(dB)	
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit	MPR	
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)	
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0	

n14_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158100	158600	158900			
Frequency (MHz)				714	719	724			
10	PI2 BPSK	1	1		22.92				
10	PI2 BPSK	1	26		22.91		24.0	0.0	
10	PI2 BPSK	1	50		22.89				
10	PI2 BPSK	25	0		22.82		24.0	0.0	
10	PI2 BPSK	25	14		22.91		24.0	0.0	
10	PI2 BPSK	25	27		22.82				
10	PI2 BPSK	50	0		22.80		24.0	0.0	
10	QPSK	1	1		22.93				
10	QPSK	1	26		22.94		24.0	0.0	
10	QPSK	1	50		22.89				
10	QPSK	25	0		22.83		24.0	0.0	
10	QPSK	25	14		22.85		24.0	0.0	
10	QPSK	25	27		22.80				
10	QPSK	50	0		22.84		24.0	0.0	
10	16QAM	1	1		22.89		24.0	0.0	
10	16QAM	1	1		22.22		23.0	1.0	
10	256QAM	1	1		20.05		21.0	3.0	
Channel				158100	158600	158900	Tune-up limit	MPR	
Frequency (MHz)				714	719	724	(dBm)	(dB)	
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	



n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				158100	158900				
Frequency (MHz)				214					
10	PI2 BPSK	1	1	22.60			24.0	0.0	
10	PI2 BPSK	1	26	22.54					
10	PI2 BPSK	1	50	22.54					
10	PI2 BPSK	25	0	22.51			24.0	0.0	
10	PI2 BPSK	25	14	22.53			24.0	0.0	
10	PI2 BPSK	25	27	22.49			24.0	0.0	
10	PI2 BPSK	50	0	22.51					
10	QPSK	1	1	22.62			24.0	0.0	
10	QPSK	1	26	22.50					
10	QPSK	1	50	22.55					
10	QPSK	25	0	22.49			24.0	0.0	
10	QPSK	25	14	22.57			24.0	0.0	
10	QPSK	25	27	22.50					
10	QPSK	50	0	22.54			24.0	0.0	
10	16QAM	1	1	22.49			24.0	0.0	
10	16QAM	1	1	22.50			23.0	1.0	
10	256QAM	1	1	19.89			21.0	3.0	
Channel				158100	158900	159100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				214.5	215	215.5			
5	QPSK	1	1	22.52	22.51	22.53	24.0	0.0	

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1810	1822.5	1835			
40	PI2 BPSK	1	1	22.87	22.80	22.87	24.0	0.0	
40	PI2 BPSK	1	108	22.82	22.80	22.83			
40	PI2 BPSK	1	214	22.86	22.82	22.83			
40	PI2 BPSK	108	0	22.74	22.86	22.69	24.0	0.0	
40	PI2 BPSK	108	54	22.76	22.89	22.77	24.0	0.0	
40	PI2 BPSK	108	108	22.75	22.83	22.67	24.0	0.0	
40	PI2 BPSK	216	0	22.65	22.78	22.74			
40	QPSK	1	1	22.75	22.82	22.78	24.0	0.0	
40	QPSK	1	108	22.75	22.84	22.69			
40	QPSK	1	214	22.71	22.78	22.72			
40	QPSK	108	0	22.69	22.82	22.67	24.0	0.0	
40	QPSK	108	54	22.73	22.83	22.73	24.0	0.0	
40	QPSK	108	108	22.70	22.78	22.72			
40	QPSK	216	0	22.73	22.80	22.73	24.0	0.0	
40	16QAM	1	1	22.72	22.82	22.66	24.0	0.0	
40	16QAM	1	1	21.58	21.65	21.59	22.5	1.5	
40	256QAM	1	1	19.67	19.68	19.63	20.5	3.5	
Channel				373500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1807.5	1822.5	1837.5			
35	QPSK	1	1	22.69	22.80	22.69	24.0	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1900			
30	QPSK	1	1	22.70	22.78	22.66	24.0	0.0	
Channel				372500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1902.5			
25	QPSK	1	1	22.69	22.85	22.73	24.0	0.0	
Channel				372000	376500	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1862.5	1905			
20	QPSK	1	1	22.73	22.84	22.72	24.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1862.5	1907.5			
15	QPSK	1	1	22.73	22.82	22.76	24.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1862.5	1910			
10	QPSK	1	1	22.69	22.88	22.73	24.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1862.5	1912.5			
5	QPSK	1	1	22.75	22.85	22.71	24.0	0.0	

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1810	1822.5	1835			
40	PI2 BPSK	1	1	22.15	22.19	22.12	24.0	0.0	
40	PI2 BPSK	1	108	22.05	22.10	22.05			
40	PI2 BPSK	1	214	22.12	22.15	22.06			
40	PI2 BPSK	108	0	21.95	21.67	21.55	23.5	0.5	
40	PI2 BPSK	108	54	22.01	22.03	22.09	24.0	0.0	
40	PI2 BPSK	108	108	21.81	21.70	21.67	23.5	0.5	
40	PI2 BPSK	216	0	21.67	21.72	21.67			
40	QPSK	1	1	22.14	22.22	22.06	24.0	0.0	
40	QPSK	1	108	22.07	22.08	22.03			
40	QPSK	1	214	22.05	22.10	22.01			
40	QPSK	108	0	21.11	21.10	21.06	23.0	1.0	
40	QPSK	108	54	22.05	22.11	22.03	24.0	0.0	
40	QPSK	108	108	21.06	21.15	21.12			
40	QPSK	216	0	21.04	21.13	21.10	23.0	1.0	
40	16QAM	1	1	21.27	21.34	21.19	23.0	1.0	
40	16QAM	1	1	19.82	19.85	19.84	21.5	2.5	
40	256QAM	1	1	17.75	17.89	17.74	19.5	4.5	
Channel				373500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1807.5	1822.5	1837.5			
35	QPSK	1	1	21.99	22.07	22.01	24.0	0.0	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1900			
30	QPSK	1	1	22.02	22.14	22.01	24.0	0.0	
Channel				372500	376500	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1902.5			
25	QPSK	1	1	22.07	22.07	22.03	24.0	0.0	
Channel				372000	376500	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1862.5	1905			
20	QPSK	1	1	22.10	22.17	22.03	24.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1862.5	1907.5			
15	QPSK	1	1	22.09	22.06	22.01	24.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1862.5	1910			
10	QPSK	1	1	22.08	22.08	22.02	24.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1862.5	1912.5			
5	QPSK	1	1	22.04	22.16	21.94	24.0	0.0	



n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164300	166300	167800			
Frequency (MHz)				824	831.5	834			
20	PI2 BPSK	1	1	22.87	22.85	22.83			
20	PI2 BPSK	1	53	22.85	22.83	22.87	24.0	0.0	
20	PI2 BPSK	1	104	22.85	22.79	22.88			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	25	22.82	22.80	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.88	22.86			
20	PI2 BPSK	100	0	22.85	22.85	22.81	24.0	0.0	
20	QPSK	1	1	22.95	22.94	22.92			
20	QPSK	1	53	22.90	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	25	22.87	22.85	22.89	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85			
20	QPSK	100	0	22.80	22.79	22.83	24.0	0.0	
20	16QAM	1	1	22.85	22.85	22.85	24.0	0.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.5	831.5	833.5			
15	QPSK	1	1	22.80	22.85	22.91	24.0	0.0	
Channel				165800	166300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.90	22.79	22.81	24.0	0.0	
Channel				167300	167300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.82	22.86	22.86	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164300	166300	167800			
Frequency (MHz)				824	831.5	834			
20	PI2 BPSK	1	1	22.85	22.85	22.87			
20	PI2 BPSK	1	53	22.85	22.78	22.80	24.0	0.0	
20	PI2 BPSK	1	104	22.90	22.78	22.81			
20	PI2 BPSK	50	0	22.89	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	25	22.80	22.85	22.82	24.0	0.0	
20	PI2 BPSK	50	56	22.85	22.80	22.81			
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0	
20	QPSK	1	1	22.95	22.92	22.90			
20	QPSK	1	53	22.95	22.92	22.92	24.0	0.0	
20	QPSK	1	104	22.94	22.87	22.93			
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	25	22.85	22.84	22.85	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81			
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0	
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.5	831.5	833.5			
15	QPSK	1	1	22.80	22.84	22.81	24.0	0.0	
Channel				165800	166300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel				167300	167300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.85	22.87	22.86	24.0	0.0	



n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				462000			24.0	0.0
Frequency (MHz)				22.02				
10	PI2 BPSK	1	1		22.02		24.0	0.0
10	PI2 BPSK	1	26		22.00			
10	PI2 BPSK	1	50		21.94		23.5	0.5
10	PI2 BPSK	25	0		21.40			
10	PI2 BPSK	25	14		21.88		24.0	0.0
10	PI2 BPSK	25	27		21.39		23.5	0.5
10	PI2 BPSK	50	0		21.42			
10	QPSK	1	1		22.00		24.0	0.0
10	QPSK	1	26		22.03			
10	QPSK	1	50		21.96		23.0	1.0
10	QPSK	25	0		20.98			
10	QPSK	25	14		22.04		24.0	0.0
10	QPSK	25	27		20.94		23.0	1.0
10	QPSK	50	0		21.03			
10	16QAM	1	1		21.18		23.0	1.0
10	64QAM	1	1		19.75		21.5	2.5
10	256QAM	1	1		17.61		19.5	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				22.02	22.00	22.02	(dBm)	(dB)
5	QPSK	1	1	21.81	21.85	21.91	24.0	0.0

n30_Ant 9								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				462000			24.0	0.0
Frequency (MHz)				2310				
10	PI2 BPSK	1	1		22.02		24.0	0.0
10	PI2 BPSK	1	26		22.00			
10	PI2 BPSK	1	50		22.99		24.0	0.0
10	PI2 BPSK	25	0		22.96			
10	PI2 BPSK	25	14		23.01		24.0	0.0
10	PI2 BPSK	25	27		22.97		24.0	0.0
10	PI2 BPSK	50	0		22.97			
10	QPSK	1	1		22.00		24.0	0.0
10	QPSK	1	26		22.97			
10	QPSK	1	50		22.94		24.0	0.0
10	QPSK	25	0		22.97			
10	QPSK	25	14		22.98		24.0	0.0
10	QPSK	25	27		22.92		24.0	0.0
10	QPSK	50	0		22.93			
10	16QAM	1	1		22.91		24.0	0.0
10	64QAM	1	1		20.24		23.0	1.0
10	256QAM	1	1		20.25		21.0	3.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2297.5	2310	2312.5		
5	QPSK	1	1	22.97	22.99	22.98	24.0	0.0



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	22.91	23.01	22.98			
40	PI2 BPSK	1	108	22.88	22.95	22.89	24.0	0.0	
40	PI2 BPSK	1	214	22.99	23.00	22.92			
40	PI2 BPSK	108	0	22.89	22.94	22.95	24.0	0.0	
40	PI2 BPSK	108	54	23.00	23.04	22.99	24.0	0.0	
40	PI2 BPSK	108	108	22.94	22.94	22.80			
40	PI2 BPSK	216	0	22.88	22.87	22.86	24.0	0.0	
40	QPSK	1	1	23.08	23.10	23.01			
40	QPSK	1	108	23.01	23.03	22.99	24.0	0.0	
40	QPSK	1	214	22.99	22.95	22.91			
40	QPSK	108	0	22.89	22.91	22.89	24.0	0.0	
40	QPSK	108	54	23.03	23.09	22.98	24.0	0.0	
40	QPSK	108	108	22.91	22.98	22.90			
40	QPSK	216	0	22.92	23.01	22.94	24.0	0.0	
40	16QAM	1	1	22.80	22.89	22.97	24.0	0.0	
40	64QAM	1	1	22.12	22.25	22.17	23.0	1.0	
40	256QAM	1	1	20.17	20.23	20.22	21.0	3.0	
Channel				346000	349000	352000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1762.5	(dBm)	(dB)	
35	QPSK	1	1	22.94	22.97	22.96	24.0	0.0	
Channel				346000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	22.82	22.83	22.82	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	22.82	23.02	22.92	24.0	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	22.99	22.93	22.90	24.0	0.0	
Channel				343000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	22.96	22.94	22.89	24.0	0.0	
Channel				343000	349000	359000	Tune-up limit	MPR	
Frequency (MHz)				1712	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	22.93	22.99	22.90	24.0	0.0	
Channel				342500	349000	365000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	22.90	23.01	22.93	24.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	23.29	23.32	23.30			
40	PI2 BPSK	1	108	23.18	23.28	23.13	24.0	0.0	
40	PI2 BPSK	1	214	23.27	23.33	23.29			
40	PI2 BPSK	108	0	22.82	22.75	22.69	23.5	0.5	
40	PI2 BPSK	108	54	23.12	23.23	23.21	24.0	0.0	
40	PI2 BPSK	108	108	22.64	22.77	22.64			
40	PI2 BPSK	216	0	22.74	22.85	22.70	23.5	0.5	
40	QPSK	1	1	23.29	23.28	23.18			
40	QPSK	1	108	23.23	23.25	23.15	24.0	0.0	
40	QPSK	1	214	23.18	23.30	23.26			
40	QPSK	108	0	22.06	22.20	22.12	23.0	1.0	
40	QPSK	108	54	23.23	23.29	23.25	24.0	0.0	
40	QPSK	108	108	22.27	22.32	22.28			
40	QPSK	216	0	22.32	23.33	22.19	23.0	1.0	
40	16QAM	1	1	22.24	22.30	22.28	23.0	1.0	
40	64QAM	1	1	20.79	20.80	20.80	21.5	2.5	
40	256QAM	1	1	18.84	18.98	18.83	19.5	4.5	
Channel				346000	349000	352000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1762.5	(dBm)	(dB)	
35	QPSK	1	1	23.12	23.31	23.25	24.0	0.0	
Channel				346000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	23.24	23.25	23.20	24.0	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)	
25	QPSK	1	1	23.24	23.34	23.21	24.0	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	23.17	23.33	23.23	24.0	0.0	
Channel				343000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	23.12	23.21	23.24	24.0	0.0	
Channel				343000	349000	359000	Tune-up limit	MPR	
Frequency (MHz)				1712	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	23.11	23.27	23.15	24.0	0.0	
Channel				342500	349000	365000	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	23.13	23.27	23.30	24.0	0.0	

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	349000	349000			
Frequency (MHz)				1762.5					
15	PI2 BPSK	1	1			22.72			
15	PI2 BPSK	1	46			22.70		24.0	
15	PI2 BPSK	1	77			22.68			
15	PI2 BPSK	36	0			22.64		24.0	
15	PI2 BPSK	36	22			22.70		24.0	
15	PI2 BPSK	36	43			22.62		24.0	
15	PI2 BPSK	75	0			22.65			
15	QPSK	1	1			22.77			
15	QPSK	1	46			22.68		24.0	
15	QPSK	1	77			22.61			
15	QPSK	36	0			22.64		24.0	
15	QPSK	36	22			22.67		24.0	
15	QPSK	36	43			22.63		24.0	
15	QPSK	75	0			22.63			
15	16QAM	1	1			22.61		24.0	
15	64QAM	1	1			22.52		23.5	
15	256QAM	1	1			20.35		21.5	
Channel				340000	349000	349000	Tune-up limit	MPR	
Frequency (MHz)				1762	1762.5	1762	(dBm)	(dB)	
10	QPSK	1	1	22.59	22.61	22.67	24.0	0.0	
Channel				338500	345000	341000	Tune-up limit	MPR	
Frequency (MHz)				1687.5	1702.5	1707.5	(dBm)	(dB)	
5	QPSK	1	1	22.67	22.67	22.63	24.0	0.0	

n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1702.5	340500				
Frequency (MHz)				23.40					
15	PI2 BPSK	1	1	23.40			24.0	0.0	
15	PI2 BPSK	1	40	23.35					
15	PI2 BPSK	1	77	23.15					
15	PI2 BPSK	36	0	22.70			23.5	0.5	
15	PI2 BPSK	36	22	23.24			24.0	0.0	
15	PI2 BPSK	36	43	22.68					
15	PI2 BPSK	75	0	22.65			23.5	0.5	
15	QPSK	1	1	23.41					
15	QPSK	1	40	23.38			24.0	0.0	
15	QPSK	1	77	23.20					
15	QPSK	36	0	22.20			23.0	1.0	
15	QPSK	36	22	23.21			24.0	0.0	
15	QPSK	36	43	22.18					
15	QPSK	75	0	22.12			23.0	1.0	
15	16QAM	1	1	22.50			23.0	1.0	
15	16QAM	1	1	20.95			21.5	2.5	
30	256QAM	1	1	18.98			19.5	4.5	
Channel				340500	341000		Tune-up limit	MPR	
Frequency (MHz)				1702	1702.5	1702	(dBm)	(dB)	
10	QPSK	1	1	23.31	23.31	23.37	24.0	0.0	
Channel				169500	340500	341500	Tune-up limit	MPR	
Frequency (MHz)				1697.5	1702.5	1707.5	(dBm)	(dB)	
5	QPSK	1	1	23.31	23.33	23.38	24.0	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				136600	136100	136600			
Frequency (MHz)				673	660.5	668			
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92			
30	PI2 BPSK	160	0	22.95	22.99	22.98	24.0	0.0	
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.95	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91			
30	QPSK	160	0	22.91	22.96	22.96	24.0	0.0	
30	16QAM	1	1	22.50	22.53	22.53	24.0	0.0	
30	16QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel				136100	136100	137100	Tune-up limit	MPR	
Frequency (MHz)				663.5	660.5	665.5	(dBm)	(dB)	
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel				136600	136100	137600	Tune-up limit	MPR	
Frequency (MHz)				673	660.5	668	(dBm)	(dB)	
20	QPSK	1	1	22.90	23.02	22.98	24.0	0.0	
Channel				133100	136100	137100	Tune-up limit	MPR	
Frequency (MHz)				670.5	660.5	660.5	(dBm)	(dB)	
15	QPSK	1	1	22.80	22.99	22.92	24.0	0.0	
Channel				133000	136100	137000	Tune-up limit	MPR	
Frequency (MHz)				668	660.5	663	(dBm)	(dB)	
10	QPSK	1	1	22.98	22.92	22.98	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit	MPR	
Frequency (MHz)				668.5	660.5	668.5	(dBm)	(dB)	
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				136600	136100	136600			
Frequency (MHz)				673	660.5	668			
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17			
30	PI2 BPSK	160	0	23.15	23.19	23.18	24.0	0.0	
30	QPSK	1	1	23.23	23.28	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.08	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.11	23.19	23.11	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14			
30	QPSK	160	0	23.08	23.10	23.08	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	16QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel				136100	136100	137100	Tune-up limit	MPR	
Frequency (MHz)				663.5	660.5	665.5	(dBm)	(dB)	
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel				136600	136100	137600	Tune-up limit	MPR	
Frequency (MHz)				673	660.5	668	(dBm)	(dB)	
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel				133100	136100	137100	Tune-up limit	MPR	
Frequency (MHz)				670.5	660.5	660.5	(dBm)	(dB)	
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel				133000	136100	137000	Tune-up limit	MPR	
Frequency (MHz)				668	660.5	663	(dBm)	(dB)	
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit	MPR	
Frequency (MHz)				668.5	660.5	668.5	(dBm)	(dB)	
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	22.83	22.86	22.81	24.0	0.0	0.0
40	Pl2 BPSK	1	53	22.86	22.85	22.84			
40	Pl2 BPSK	1	104	22.83	22.86	22.87			
40	Pl2 BPSK	50	0	22.82	22.85	22.81			
40	Pl2 BPSK	50	26	22.84	22.85	22.83	24.0	0.0	0.0
40	Pl2 BPSK	50	56	22.86	22.87	22.85	24.0	0.0	0.0
40	Pl2 BPSK	100	0	22.79	22.83	22.88			
40	QPSK	1	1	22.90	22.95	22.92			
40	QPSK	1	53	22.89	22.90	22.84	24.0	0.0	0.0
40	QPSK	1	104	22.93	22.18	22.16			
40	QPSK	50	0	21.83	21.96	21.94			
40	QPSK	50	26	22.86	22.86	22.87	24.0	0.0	0.0
40	QPSK	50	56	21.98	21.90	21.54	23.0	1.0	1.0
40	QPSK	100	0	21.85	21.70	21.65			
40	16QAM	1	1	21.90	21.93	21.90			
40	64QAM	1	1	20.03	20.02	20.06	21.5	2.5	2.5
40	256QAM	1	1	18.44	18.55	18.43	19.5	4.5	4.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.87	22.81	22.83	24.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.81	22.83	22.84	24.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.86	22.82	22.83	24.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.82	22.86	22.80	24.0	0.0	0.0

n38_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	23.04	23.10	22.98	24.0	0.0	0.0
40	Pl2 BPSK	1	53	22.93	23.10	22.92			
40	Pl2 BPSK	1	104	22.95	23.10	22.91			
40	Pl2 BPSK	50	0	23.01	23.04	22.91			
40	Pl2 BPSK	50	26	23.06	23.12	22.97	24.0	0.0	0.0
40	Pl2 BPSK	50	56	22.96	23.10	22.93	24.0	0.0	0.0
40	Pl2 BPSK	100	0	22.96	23.09	22.97			
40	QPSK	1	1	23.05	23.13	23.01			
40	QPSK	1	53	22.99	23.06	22.90	24.0	0.0	0.0
40	QPSK	1	104	22.97	23.06	22.93			
40	QPSK	50	0	22.97	23.04	22.93			
40	QPSK	50	26	22.96	23.06	22.96			
40	QPSK	50	56	22.98	23.07	22.89	24.0	0.0	0.0
40	QPSK	100	0	23.01	23.06	22.96	24.0	0.0	0.0
40	16QAM	1	1	22.93	23.06	22.97	24.0	0.0	0.0
40	64QAM	1	1	22.71	22.72	22.57	23.5	0.5	0.5
40	256QAM	1	1	20.51	20.64	20.62	21.5	2.5	2.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.02	23.06	22.96	24.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.96	23.13	22.97	24.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.95	23.04	22.94	24.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.97	23.05	22.96	24.0	0.0	0.0

n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	23.14	23.02	23.02		24.0	0.0
100	Pl2 BPSK	1	137	23.08	23.15	23.00			
100	Pl2 BPSK	1	271	23.01	23.06	22.74			
100	Pl2 BPSK	135	0	23.03	23.08	23.00	24.0		
100	Pl2 BPSK	135	66	23.05	23.13	23.03	24.0	0.0	0.0
100	Pl2 BPSK	135	136	22.89	22.91	22.64			
100	Pl2 BPSK	270	0	22.84	22.96	22.92	24.0		
100	QPSK	1	1	23.20	23.22	23.02		24.0	0.0
100	QPSK	1	137	22.95	23.11	22.98			
100	QPSK	1	271	22.95	22.97	22.81			
100	QPSK	135	0	22.91	22.95	22.78	24.0		
100	QPSK	135	66	22.91	23.16	22.83	24.0	0.0	0.0
100	QPSK	135	136	22.89	22.91	22.59			
100	QPSK	270	0	22.91	22.94	22.84	24.0		
100	16QAM	1	1	22.80	22.81	22.74	24.0	0.0	0.0
100	64QAM	1	1	22.81	22.87	22.60	23.5	0.5	0.5
100	256QAM	1	1	20.89	20.92	20.76	21.5	2.5	2.5
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.07	23.20	22.94	24.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.10	23.14	22.98	24.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.91	22.95	22.84	24.0	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.09	23.20	22.96	24.0	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.06	23.13	22.98	24.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.08	23.20	22.97	24.0	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.13	22.93	24.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.08	23.17	22.95	24.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.09	23.14	22.93	24.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.16	22.94	24.0	0.0	0.0

n41_Ant 1_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518898	528800			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	25.13	25.21	25.11			
100	PQ2 BPSK	1	137	25.30	25.34	25.25	27.0	0.0	
100	PQ2 BPSK	1	271	25.11	25.12	25.08			
100	PQ2 BPSK	135	0	24.77	24.80	24.76	26.5	0.5	
100	PQ2 BPSK	135	69	25.33	25.34	25.30	27.0	0.0	
100	PQ2 BPSK	135	138	24.50	24.55	24.53	26.5	0.5	
100	PQ2 BPSK	270	0	24.71	24.79	24.71			
100	QPSK	1	1	25.23	25.35	25.23			
100	QPSK	1	137	25.25	25.32	25.21	27.0	0.0	
100	QPSK	1	271	24.72	24.81	24.71			
100	QPSK	135	0	24.08	24.17	24.16			
100	QPSK	135	69	25.36	25.32	25.24	27.0	0.0	
100	QPSK	135	138	24.07	24.10	24.00			
100	QPSK	270	0	24.29	24.31	24.28	26.0	1.0	
100	16QAM	1	1	24.39	24.43	24.37	26.0	1.0	
100	64QAM	1	1	22.77	22.87	22.89	24.5	2.5	
100	256QAM	1	1	20.95	20.89	20.78	22.5	4.5	
Channel				506200	518898	528896	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	25.06	25.12	25.15	27.0	0.0	
Channel				507204	518898	529898	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.99	(dBm)	(dB)	
80	QPSK	1	1	25.08	25.15	25.08	27.0	0.0	
Channel				505202	518898	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	25.09	25.20	25.12	27.0	0.0	
Channel				503200	518898	531996	Tune-up limit	MPR	
Frequency (MHz)				2524	2592.99	2674.98	(dBm)	(dB)	
60	QPSK	1	1	25.11	25.18	25.15	27.0	0.0	
Channel				504204	518898	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2684.99	(dBm)	(dB)	
50	QPSK	1	1	25.10	25.15	25.11	27.0	0.0	
Channel				503202	518898	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	25.09	25.20	25.10	27.0	0.0	
Channel				502200	518898	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	25.11	25.20	25.15	27.0	0.0	
Channel				507204	518898	537000	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	25.08	25.15	25.13	27.0	0.0	
Channel				500700	518898	538498	Tune-up limit	MPR	
Frequency (MHz)				2503.05	2592.99	2684.98	(dBm)	(dB)	
15	QPSK	1	1	25.11	25.12	25.15	27.0	0.0	
Channel				500202	518898	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2680	(dBm)	(dB)	
10	QPSK	1	1	25.07	25.15	25.11	27.0	0.0	



n41_Ant 2									
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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PQ2 BPSK	1	1	20.31	20.44	20.29			
100	PQ2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21			
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.09	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13			
100	QPSK	135	69	20.05	20.36	20.24	22.0	0.0	
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98			
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524.01	2592.99	2659.98			
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0	
Channel				502200	518598	534966	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.99	2674.98			
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.43	22.49	22.22			
100	PQ2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0	
100	PQ2 BPSK	1	271	22.19	22.23	22.21			
100	PQ2 BPSK	135	0	21.88	21.99	21.86	23.5	0.5	
100	PQ2 BPSK	135	69	22.08	22.10	22.06	24.0	0.0	
100	PQ2 BPSK	135	138	21.75	21.89	21.69	23.5	0.5	
100	PQ2 BPSK	270	0	21.75	21.85	21.74			
100	QPSK	1	1	22.43	22.51	22.44			
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0	
100	QPSK	1	271	22.06	22.18	22.12			
100	QPSK	135	0	21.83	21.92	21.83			
100	QPSK	135	69	22.07	22.06	22.04	24.0	0.0	
100	QPSK	135	138	21.45	21.47	21.34			
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0	
100	16QAM	1	1	21.68	21.83	21.68	23.0	1.0	
100	64QAM	1	1	20.31	20.32	20.29	21.5	2.5	
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.33	22.35	22.12	24.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.38	22.43	22.11	24.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0	
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524.01	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0	
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98	24.0	0.0	
50	QPSK	1	1	22.35	22.43	22.15	24.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.34	22.36	22.21	24.0	0.0	
Channel				502205	518598	535956	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0	
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.37	22.34	22.15	24.0	0.0	

n41_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	23.08	23.15	22.97	24.0		
100	PQ2 BPSK	1	137	22.97	23.07	22.86			
100	PQ2 BPSK	1	271	22.81	22.89	22.86			
100	PQ2 BPSK	135	0	22.96	23.11	22.86		0.0	
100	PQ2 BPSK	135	69	23.00	23.15	22.80	24.0		
100	PQ2 BPSK	135	138	22.74	22.88	22.80			
100	PQ2 BPSK	270	0	22.96	23.05	22.84			
100	QPSK	1	1	22.97	23.18	22.84			
100	QPSK	1	137	22.96	23.06	22.83	24.0		
100	QPSK	1	271	22.90	22.91	22.79			
100	QPSK	135	0	22.92	23.04	22.79			
100	QPSK	135	69	22.94	23.09	22.79		0.0	
100	QPSK	135	138	22.82	22.75	22.64	24.0		
100	QPSK	270	0	22.88	22.72	22.61			
100	16QAM	1	1	22.91	23.07	22.86		0.0	
100	64QAM	1	1	21.80	21.91	21.86		1.5	
100	256QAM	1	1	19.85	19.79	19.73		3.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.93	23.10	22.88	24.0		
Channel				507204	518598	520968			
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	22.98	23.10	22.80		0.0	
Channel				507202	518598	520968	24.0		
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	23.02	23.05	23.01		0.0	
Channel				502000	518598	531986			
Frequency (MHz)				2524	2592.99	2609.98			
60	QPSK	1	1	22.92	23.05	22.86	24.0		
Channel				504204	518598	532968			
Frequency (MHz)				2621.02	2592.99	2654.99			
50	QPSK	1	1	22.99	23.12	22.89		0.0	
Channel				503002	518598	534000	24.0		
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	22.96	23.07	22.86		0.0	
Channel				502200	518598	535986			
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	22.98	23.06	22.89	24.0		
Channel				507204	518598	532968			
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	22.90	23.12	22.85		0.0	
Channel				500700	518598	536486	24.0		
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	22.99	23.04	22.88		0.0	
Channel				506002	518598	537000			
Frequency (MHz)				2601.01	2592.99	2685			
10	QPSK	1	1	22.85	23.05	22.85	24.0		
Channel				506000	518598	536986			
Frequency (MHz)				2541	2592.99	2644.98			
Channel				507204	518598	520968			
Frequency (MHz)				2636.02	2592.99	2649.99			
Channel				507202	518598	520968	24.0		
Frequency (MHz)				2631.01	2592.99	2655			
Channel				502000	518598	531986			
Frequency (MHz)				2524	2592.99	2609.98			
Channel				504204	518598	532968	24.0		
Frequency (MHz)				2621.02	2592.99	2654.99			
Channel				502200	518598	535986			
Frequency (MHz)				2611	2592.99	2674.98			
Channel				503002	518598	534000	24.0		
Frequency (MHz)				2616.01	2592.99	2670			
Channel				500700	518598	536486			
Frequency (MHz)				2603.5	2592.99	2682.48			
Channel				506002	518598	537000	24.0		
Frequency (MHz)				2601.01	2592.99	2685			
Channel				506000	518598	536986			
Frequency (MHz)				2541	2592.99	2644.98			

n41_Ant 5_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	24.33	24.37	24.30	26.0		
100	PQ2 BPSK	1	137	24.10	24.12	24.11			
100	PQ2 BPSK	1	271	24.07	24.14	24.07			
100	PQ2 BPSK	135	0	23.69	23.75	23.72		0.5	
100	PQ2 BPSK	135	69	24.02	24.07	24.04	26.0		
100	PQ2 BPSK	135	138	23.50	23.55	23.53			
100	PQ2 BPSK	270	0	23.59	23.56	23.52		0.5	
100	QPSK	1	1	24.53	24.64	24.53			
100	QPSK	1	137	24.15	24.21	24.15	26.0		
100	QPSK	1	271	24.11	24.18	24.09			
100	QPSK	135	0	23.22	23.24	23.22			
100	QPSK	135	69	23.96	24.43	24.52		0.0	
100	QPSK	135	138	22.94	22.96	22.94	25.0		
100	QPSK	270	0	23.48	23.51	23.41			
100	16QAM	1	1	23.56	23.62	23.55		1.0	
100	64QAM	1	1	22.06	22.09	22.01		2.5	
100	256QAM	1	1	19.95	19.97	19.91		4.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	24.40	24.61	24.48	26.0		
Channel				507204	518598	520968			
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	24.51	24.57	24.47		0.0	
Channel				507202	518598	520968	24.0		
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	24.50	24.62	24.51		0.0	
Channel				502000	518598	531986			
Frequency (MHz)				2524	2592.99	2609.98			
60	QPSK	1	1	24.47	24.62	24.49	26.0		
Channel				504204	518598	532968			
Frequency (MHz)				2621.02	2592.99	2654.99			
50	QPSK	1	1	24.49	24.59	24.50		0.0	
Channel				503002	518598	534000	24.0		
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	24.47	24.57	24.52		0.0	
Channel				502200	518598	535986			
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	24.46	24.60	24.48	26.0		
Channel				507204	518598	532968			
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	24.48	24.58	24.51		0.0	
Channel				500700	518598	536486	24.0		
Frequency (MHz)				2603.5	2592.99	2662.48			
15	QPSK	1	1	24.46	24.63	24.48	26.0		
Channel				500202	518598	532000			
Frequency (MHz)				2603.5	2592.99	2662.48			
10	QPSK	1	1	24.49	24.59	24.47	26.0		
Channel				500202	518598	532000			
Frequency (MHz)				2603.5	2592.99	2662.48			

n41_Ant 6									
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				506002	518098	526000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	20.97	21.01	20.91			
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0	
100	PQ2 BPSK	1	271	20.93	21.11	20.89			
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0	
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0	
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0	
100	PQ2 BPSK	270	0	20.94	21.02	20.96			
100	QPSK	1	1	21.10	21.18	21.06			
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0	
100	QPSK	1	271	20.80	21.02	20.80			
100	QPSK	135	0	20.78	20.97	20.67			
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0	
100	QPSK	135	138	20.83	20.95	20.73			
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0	
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0	
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5	
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5	
Channel				506000	518098	526096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0	
Channel				507204	518098	526098	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0	
Channel				505202	518098	527000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2674.98	(dBm)	(dB)	
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0	
Channel				504204	518098	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2684.99	(dBm)	(dB)	
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0	
Channel				507204	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2603.5	2592.99	2683.48	(dBm)	(dB)	
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0	

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	536000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	

n41_Ant 9							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				506002	518598	526000	
Frequency (MHz)				2540.01	2592.99	2540	
100	PI2 BPSK	1	1	23.16	23.19	23.02	
100	PI2 BPSK	1	137	23.12	23.09	22.97	24.0
100	PI2 BPSK	1	271	23.13	23.18	23.01	
100	PI2 BPSK	135	0	23.06	23.13	22.98	24.0
100	PI2 BPSK	135	69	23.11	23.15	22.99	0.0
100	PI2 BPSK	135	138	23.05	23.10	22.96	24.0
100	PI2 BPSK	270	0	23.08	23.11	22.98	
100	QPSK	1	1	23.13	23.21	23.04	
100	QPSK	1	137	23.09	23.06	22.99	24.0
100	QPSK	1	271	23.04	23.12	22.93	
100	QPSK	135	0	23.06	23.13	22.94	
100	QPSK	135	69	23.07	23.16	22.97	24.0
100	QPSK	135	138	23.08	23.10	22.91	
100	QPSK	270	0	23.09	23.15	22.92	24.0
100	16QAM	1	1	23.05	23.16	22.89	24.0
100	64QAM	1	1	23.10	23.07	22.94	24.0
100	256QAM	1	1	22.42	22.45	22.41	23.5
Channel				506000	518598	526006	MFR
Frequency (MHz)				2541	2592.99	2544.98	(dB)
90	QPSK	1	1	23.04	23.11	22.85	24.0
Channel				507204	518598	526968	MFR
Frequency (MHz)				2536.02	2592.99	2549.99	(dB)
80	QPSK	1	1	23.10	23.09	22.88	24.0
Channel				507502	518598	527000	MFR
Frequency (MHz)				2531.01	2592.99	2555	(dB)
70	QPSK	1	1	23.04	23.01	22.85	24.0
Channel				508200	518598	531986	MFR
Frequency (MHz)				2526	2592.99	2569.98	(dB)
60	QPSK	1	1	23.01	23.11	22.90	24.0
Channel				504204	518598	532968	MFR
Frequency (MHz)				2521.02	2592.99	2564.99	(dB)
50	QPSK	1	1	23.10	23.15	22.95	24.0
Channel				503002	518598	534000	MFR
Frequency (MHz)				2516.01	2592.99	2570	(dB)
40	QPSK	1	1	23.08	23.12	22.99	24.0
Channel				502205	518598	535966	MFR
Frequency (MHz)				2511	2592.99	2574.98	(dB)
30	QPSK	1	1	23.04	23.09	22.90	24.0
Channel				507204	518598	536968	MFR
Frequency (MHz)				2506.02	2592.99	2579.99	(dB)
20	QPSK	1	1	23.00	23.11	22.91	24.0
Channel				500700	518598	536496	MFR
Frequency (MHz)				2503.5	2592.99	2582.48	(dB)
15	QPSK	1	1	23.02	23.09	22.88	24.0
Channel				500202	518598	537000	MFR
Frequency (MHz)				2501.01	2592.99	2585	(dB)
10	QPSK	1	1	23.05	23.07	22.95	24.0

n41_Ant 9_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				506002	518598	526000	
Frequency (MHz)				2540.01	2592.99	2540	
100	PI2 BPSK	1	1	25.94	26.03	25.75	
100	PI2 BPSK	1	137	25.97	26.02	25.84	27.0
100	PI2 BPSK	1	271	26.10	26.05	25.81	
100	PI2 BPSK	135	0	26.00	26.05	25.79	27.0
100	PI2 BPSK	135	69	26.01	26.05	25.86	27.0
100	PI2 BPSK	135	138	25.90	25.95	25.79	27.0
100	PI2 BPSK	270	0	25.99	26.04	25.78	
100	QPSK	1	1	25.15	25.16	25.01	
100	QPSK	1	137	26.07	25.95	25.81	27.0
100	QPSK	1	271	25.59	25.72	25.62	
100	QPSK	135	0	25.84	25.67	25.63	
100	QPSK	135	69	25.97	26.00	25.76	27.0
100	QPSK	135	138	25.20	25.21	25.10	
100	QPSK	270	0	25.24	25.34	25.26	26.0
100	16QAM	1	1	24.21	25.31	25.22	26.0
100	64QAM	1	1	24.57	24.65	24.53	25.0
100	256QAM	1	1	22.47	22.49	22.34	23.5
Channel				506000	518598	526966	MFR
Frequency (MHz)				2541	2592.99	2544.98	(dB)
90	QPSK	1	1	25.94	25.97	25.75	27.0
Channel				507204	518598	526968	MFR
Frequency (MHz)				2536.02	2592.99	2549.99	(dB)
80	QPSK	1	1	25.98	26.03	25.80	27.0
Channel				507502	518598	527000	MFR
Frequency (MHz)				2531.01	2592.99	2555	(dB)
70	QPSK	1	1	25.94	26.01	25.75	27.0
Channel				508200	518598	531986	MFR
Frequency (MHz)				2526	2592.99	2569.98	(dB)
60	QPSK	1	1	25.97	25.99	25.84	27.0
Channel				504204	518598	532968	MFR
Frequency (MHz)				2521.02	2592.99	2564.99	(dB)
50	QPSK	1	1	25.99	26.01	25.83	27.0
Channel				503002	518598	534000	MFR
Frequency (MHz)				2516.01	2592.99	2570	(dB)
40	QPSK	1	1	26.00	26.04	25.76	27.0
Channel				502205	518598	535966	MFR
Frequency (MHz)				2511	2592.99	2574.98	(dB)
30	QPSK	1	1	25.92	26.00	25.76	27.0
Channel				507204	518598	536968	MFR
Frequency (MHz)				2506.02	2592.99	2579.99	(dB)
20	QPSK	1	1	25.99	26.01	25.77	27.0
Channel				500700	518598	536496	MFR
Frequency (MHz)				2503.5	2592.99	2582.48	(dB)
15	QPSK	1	1	25.98	25.97	25.75	27.0
Channel				500202	518598	537000	MFR
Frequency (MHz)				2501.01	2592.99	2585	(dB)
10	QPSK	1	1	25.95	26.05	25.83	27.0



n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				6370	6324.99	6379.98			
40	PI2 BPSK	1	1	22.83	22.02	22.00			
40	PI2 BPSK	1	53	22.81	22.98	22.94	24.0	0.0	
40	PI2 BPSK	1	104	22.81	22.98	22.94			
40	PI2 BPSK	50	0	22.71	22.90	22.88	24.0	0.0	
40	PI2 BPSK	50	26	22.76	22.97	22.96	24.0	0.0	
40	PI2 BPSK	50	56	22.73	22.92	22.87			
40	PI2 BPSK	100	0	22.68	22.91	22.89	24.0	0.0	
40	QPSK	1	1	22.80	22.03	22.07			
40	QPSK	1	53	22.85	22.92	22.84	24.0	0.0	
40	QPSK	1	104	22.85	22.83	22.77			
40	QPSK	50	0	22.88	22.83	22.83			
40	QPSK	50	26	22.76	22.91	22.86	24.0	0.0	
40	QPSK	50	56	22.85	22.84	22.77			
40	QPSK	100	0	22.86	22.82	22.79	24.0	0.0	
40	16QAM	1	1	22.81	22.82	22.82	24.0	0.0	
40	64QAM	1	1	22.82	22.96	22.43	23.0	1.0	
40	256QAM	1	1	20.52	20.81	20.51	21.0	3.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3095.02	3024.99	3084.99			
30	QPSK	1	1	22.64	22.92	22.78	24.0	0.0	
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3660			
20	QPSK	1	1	22.63	22.90	22.81	24.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3664.98			
10	QPSK	1	1	22.63	22.91	22.84	24.0	0.0	

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				6370	6324.99	6379.98			
40	PI2 BPSK	1	1	22.61	22.71	22.48			
40	PI2 BPSK	1	53	22.54	22.66	22.46	24.0	0.0	
40	PI2 BPSK	1	104	22.36	22.16	22.37			
40	PI2 BPSK	50	0	22.37	22.31	22.12	23.5	0.5	
40	PI2 BPSK	50	26	22.48	22.54	22.41	24.0	0.0	
40	PI2 BPSK	50	56	22.37	22.29	22.21	23.5	0.5	
40	PI2 BPSK	100	0	22.41	22.18	22.26			
40	QPSK	1	1	22.64	22.76	22.51			
40	QPSK	1	53	22.41	22.69	22.31	24.0	0.0	
40	QPSK	1	104	22.38	22.26	22.13			
40	QPSK	50	0	22.18	22.38	22.09			
40	QPSK	50	26	22.57	22.59	22.48	24.0	0.0	
40	QPSK	50	56	22.06	22.09	22.08			
40	QPSK	100	0	22.23	22.31	22.26	23.0	1.0	
40	16QAM	1	1	22.19	22.36	22.17	23.0	1.0	
40	64QAM	1	1	20.29	20.38	20.31	21.5	2.5	
40	256QAM	1	1	19.03	19.08	18.96	19.5	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3095.02	3024.99	3084.99			
30	QPSK	1	1	22.60	22.57	22.63	24.0	0.0	
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3660			
20	QPSK	1	1	22.60	22.58	22.54	24.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3664.98			
10	QPSK	1	1	22.60	22.56	22.54	24.0	0.0	

n48_FCC_Part96_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Max Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				320.9	323.99	326.98			
40	Pl2 BPSK	1	1	21.27	21.53	20.99	22.5	0.0	
40	Pl2 BPSK	1	53	20.76	20.88	20.84			
40	Pl2 BPSK	1	104	21.07	21.22	21.14			
40	Pl2 BPSK	50	0	20.71	20.70	20.70	22.5	0.0	
40	Pl2 BPSK	50	26	21.33	21.26	21.25	22.5	0.0	
40	Pl2 BPSK	50	56	20.65	20.65	20.66	22.5	0.0	
40	Pl2 BPSK	100	0	20.61	20.68	20.67			
40	QPSK	1	1	21.30	21.48	21.40			
40	QPSK	1	53	21.33	21.35	21.20	22.5	0.0	
40	QPSK	1	104	21.10	21.17	21.07	22.5	0.0	
40	QPSK	50	0	20.72	20.80	20.78			
40	QPSK	50	26	21.26	21.26	21.26			
40	QPSK	50	56	20.69	20.74	20.66	22.0	0.5	
40	QPSK	100	0	20.61	20.71	20.64			
40	16QAM	1	1	19.89	20.03	19.99	21.5	1.0	
40	16QAM	1	1	18.29	18.37	18.27	20.0	2.5	
40	256QAM	1	1	16.96	16.97	16.72	18.0	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	21.54	21.47	21.43	22.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	21.30	21.44	21.45	22.5	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98			
10	QPSK	1	1	21.30	21.44	21.40	22.5	0.0	

n48_FCC_Part96_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Max Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				320.9	323.99	326.98			
40	Pl2 BPSK	1	1	22.83	23.09	22.93	24.0	0.0	
40	Pl2 BPSK	1	53	22.83	22.96	22.85			
40	Pl2 BPSK	1	104	22.92	22.96	22.92			
40	Pl2 BPSK	50	0	22.94	22.32	22.23	23.5	0.5	
40	Pl2 BPSK	50	26	22.71	22.81	22.69	24.0	0.0	
40	Pl2 BPSK	50	56	22.21	22.28	22.20	23.5	0.5	
40	Pl2 BPSK	100	0	22.17	22.25	22.20			
40	QPSK	1	1	22.96	23.03	22.94			
40	QPSK	1	53	22.76	22.86	22.71	24.0	0.0	
40	QPSK	1	104	22.40	22.52	22.48			
40	QPSK	50	0	22.63	22.77	22.64			
40	QPSK	50	26	22.76	22.61	22.74	24.0	0.0	
40	QPSK	50	56	21.67	21.73	21.69			
40	QPSK	100	0	21.53	21.68	21.56	23.0	1.0	
40	16QAM	1	1	21.99	22.00	21.96	23.0	1.0	
40	16QAM	1	1	20.42	20.46	20.34	21.5	2.5	
40	256QAM	1	1	18.39	18.45	18.31	18.5	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	22.02	22.91	22.92	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	22.87	22.99	22.80	24.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98			
10	QPSK	1	1	22.92	22.95	22.84	24.0	0.0	



Par270 n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	17.95	34.61	34.61			
100	Pi2 BPSK	1	1	22.98	23.21	23.15			
100	Pi2 BPSK	1	137	22.88	23.13	23.07	24.0	0.0	
100	Pi2 BPSK	1	271	22.97	23.15	23.05			
100	Pi2 BPSK	136	0	22.89	23.13	23.11	24.0		
100	Pi2 BPSK	136	69	22.93	23.20	23.07	24.0	0.0	
100	Pi2 BPSK	136	138	22.93	23.18	23.04	24.0		
100	Pi2 BPSK	270	0	22.96	23.19	23.14	24.0		
100	QPSK	1	1	23.11	23.32	23.24			
100	QPSK	1	137	23.05	23.16	23.14	24.0	0.0	
100	QPSK	1	271	23.03	23.10	23.05			
100	QPSK	136	0	22.88	22.93	22.87			
100	QPSK	136	69	22.91	23.02	22.96	24.0	0.0	
100	QPSK	136	138	22.94	22.97	22.83			
100	QPSK	270	0	22.89	22.92	22.85	24.0	0.0	
100	16QAM	1	1	23.18	23.20	23.14	24.0	0.0	
100	16QAM	1	1	23.10	23.14	23.07	24.0	0.0	
100	256QAM	1	1	23.21	23.22	23.21	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64.9688	66.6000	66.5322	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.03	23.29	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.03	23.20	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64.9688	66.6000	66.5322	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.00	23.21	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64.9688	66.6000	66.5322	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.00	23.25	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64.9688	66.6000	66.5322	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.97	23.26	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64.9688	66.6000	66.5322	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.99	23.30	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64.9688	66.6000	66.5322	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.97	23.28	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64.9733	66.6000	66.5668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	23.29	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	37.0752	38.8400	38.7248	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.05	23.21	23.17	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	37.0500	38.8400	38.7248	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.01	23.27	23.24	24.0	0.0	

Par270 n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	25.81	26.11	26.05			
100	Pi2 BPSK	1	137	25.86	26.08	25.98	27.0		0.0
100	Pi2 BPSK	1	271	25.89	26.06	25.94			
100	Pi2 BPSK	136	0	25.88	26.03	25.98	27.0		0.0
100	Pi2 BPSK	136	69	25.90	26.06	26.02	27.0		0.0
100	Pi2 BPSK	136	138	25.84	26.05	25.95	27.0		0.0
100	Pi2 BPSK	270	0	25.87	26.09	25.94	27.0		0.0
100	QPSK	1	1	25.97	26.24	26.02			
100	QPSK	1	137	25.92	26.16	26.02	27.0		0.0
100	QPSK	1	271	25.94	26.16	26.01			
100	QPSK	136	0	25.87	25.92	25.89			
100	QPSK	136	69	25.86	25.96	25.87	27.0		0.0
100	QPSK	136	138	25.88	25.90	25.88			
100	QPSK	270	0	25.78	25.84	25.78	27.0		0.0
100	16QAM	1	1	26.15	26.22	26.17	27.0		0.0
100	16QAM	1	1	25.15	25.20	25.13	26.0		1.0
100	256QAM	1	1	23.18	23.20	23.18	24.0		3.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.82	26.04	25.96	27.0		0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.85	26.01	26.04	27.0		0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.84	26.06	25.95	27.0		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.84	26.06	25.98	27.0		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.90	26.03	26.02	27.0		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.86	26.08	25.94	27.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.84	26.03	26.02	27.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.88	26.03	25.94	27.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.83	26.03	26.03	27.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.81	26.08	25.98	27.0		0.0

Par27Q n77_Ant 4									
BW [MHz]	Modulation	RB 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		349134				
100	Pi2 BPSK	1	137		22.97		24.0		0.0
100	Pi2 BPSK	1	271		22.96				
100	Pi2 BPSK	136	0		22.91		24.0		0.0
100	Pi2 BPSK	136	69		23.01		24.0		0.0
100	Pi2 BPSK	136	138		22.99		24.0		0.0
100	Pi2 BPSK	270	0		22.98				
100	QPSK	1	1		22.13				
100	QPSK	1	137		23.01		24.0		0.0
100	QPSK	1	271		23.12				
100	QPSK	136	0		22.77				
100	QPSK	136	69		22.87		24.0		0.0
100	QPSK	136	138		22.89				
100	QPSK	270	0		22.74		24.0		0.0
100	16QAM	1	1		23.03		24.0		0.0
100	16QAM	1	1		23.09		24.0		0.0
100	256QAM	1	1		23.00		24.0		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.97	23.00	22.91	24.0		MPR (dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1	630988	633352	634000	24.0		MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	3495.02	3499.98	3510	24.0		MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	3498.01	3499.98	3514.98	24.0		MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.92	22.90	22.82	24.0		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.94	22.94	22.88	24.0		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	631688	633352	635000	24.0		MPR (dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.88	22.98	22.89	24.0		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633352	635666	24.0		MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	3495	3499.98	3514.99	24.0		MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.94	22.98	22.84	24.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.88	22.89	22.90	24.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	3497.5	3499.98	3542.49	24.0		MPR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.96	22.97	22.85	24.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	22.99	22.83	24.0		0.0



Par27Q n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	26.08					
100	PQ2 BPSK	1	137	26.08			27.0	0.0	
100	PQ2 BPSK	1	271	26.04					
100	PQ2 BPSK	135	0	25.92			27.0	0.0	
100	PQ2 BPSK	135	69	26.00			27.0	0.0	
100	PQ2 BPSK	135	138	25.99			27.0	0.0	
100	PQ2 BPSK	270	0	25.98					
100	QPSK	1	1	26.09					
100	QPSK	1	137	26.02			27.0	0.0	
100	QPSK	1	271	26.05					
100	QPSK	135	0	25.87					
100	QPSK	135	69	25.99			27.0	0.0	
100	QPSK	135	138	25.94					
100	QPSK	270	0	25.74			27.0	0.0	
100	16QAM	1	1	26.03			27.0	0.0	
100	64QAM	1	1	25.91			26.0	1.0	
100	256QAM	1	1	22.98			24.0	3.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	25.94	25.91	25.89	27.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	25.93	25.84	25.92	27.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	25.91	25.82	25.88	27.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	25.91	25.81	25.95	27.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3520			
50	QPSK	1	1	25.80	25.85	25.93	27.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	25.84	25.87	25.95	27.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	25.85	25.86	25.91	27.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	25.89	25.81	25.88	27.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3499.98	3542.99			
15	QPSK	1	1	25.89	25.87	25.95	27.0	0.0	
Channel				630000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.01	3499.98	3544.98			
10	QPSK	1	1	25.87	25.82	25.89	27.0	0.0	

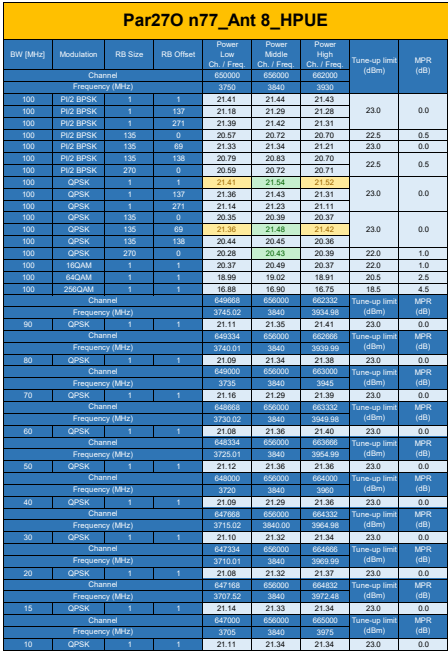
Par270 n77_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
100	PQ2 BPSK	1	1	22.92	23.09	23.01			
100	PQ2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0	
100	PQ2 BPSK	1	271	22.92	23.03	22.81			
100	PQ2 BPSK	135	0	22.82	22.88	22.88	24.0	0.0	
100	PQ2 BPSK	135	69	23.05	23.07	23.00	24.0	0.0	
100	PQ2 BPSK	135	138	22.79	22.89	22.81			
100	PQ2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0	
100	QPSK	1	1	23.02	23.16	22.96			
100	QPSK	1	137	22.92	23.09	22.93	24.0	0.0	
100	QPSK	1	271	22.91	23.02	22.83			
100	QPSK	135	0	22.90	22.97	22.80			
100	QPSK	135	69	23.02	23.13	22.94	24.0	0.0	
100	QPSK	135	138	22.84	22.89	22.87			
100	QPSK	270	0	22.86	23.02	22.76	24.0	0.0	
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0	
100	64QAM	1	1	22.37	22.49	22.31	23.5	0.5	
100	256QAM	1	1	20.41	20.49	20.36	21.5	2.5	
Channel				649968	650000	650032	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	22.85	23.11	22.77	24.0	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	22.86	23.01	22.79	24.0	0.0	
Channel				648900	650000	651300	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0	
Channel				648668	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3944.98	(dBm)	(dB)	
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0	
Channel				648334	650000	651966	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3944.99	(dBm)	(dB)	
50	QPSK	1	1	22.90	22.96	22.76	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0	
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0	
Channel				647168	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.93	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	22.85	23.01	22.76	24.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	22.83	22.97	22.83	24.0	0.0	

Par270 n77_Ant 7_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	24.43	24.49	24.51			
100	PQ2 BPSK	1	137	24.58	24.64	24.50	26.0	0.0	
100	PQ2 BPSK	1	271	24.50	24.49	24.19			
100	PQ2 BPSK	135	0	24.41	24.58	24.29	25.5	0.5	
100	PQ2 BPSK	135	69	24.51	24.53	24.41	26.0	0.0	
100	PQ2 BPSK	135	138	24.43	24.41	24.39	25.5	0.5	
100	PQ2 BPSK	270	0	24.29	24.35	24.33			
100	QPSK	1	1	24.51	24.65	24.46			
100	QPSK	1	137	24.46	24.58	24.38	26.0	0.0	
100	QPSK	1	271	24.48	24.53	24.29			
100	QPSK	135	0	24.16	24.25	24.09			
100	QPSK	135	69	24.56	24.63	24.46	26.0	0.0	
100	QPSK	135	138	24.17	24.18	24.01			
100	QPSK	270	0	23.68	23.71	23.58	25.0	1.0	
100	16QAM	1	1	23.61	23.68	23.46	25.0	1.0	
100	64QAM	1	1	22.41	22.51	22.37	23.5	2.5	
100	256QAM	1	1	20.70	20.75	20.71	21.5	4.5	
Channel									
Frequency (MHz)				3745.02	3840.00	3923.32	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.52	24.46	39.04	26.0	0.0	
Channel									
Frequency (MHz)				650333	650000	650266	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	24.61	24.40	30.09	26.0	0.0	
Channel									
Frequency (MHz)				3750	3840	3930	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	24.44	24.56	24.28	26.0	0.0	
Channel									
Frequency (MHz)				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	24.31	24.47	24.38	26.0	0.0	
Channel									
Frequency (MHz)				646334	650000	663696	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	24.38	24.40	30.45	26.0	0.0	
Channel									
Frequency (MHz)				646000	645500	664000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	24.58	24.40	24.41	26.0	0.0	
Channel									
Frequency (MHz)				647668	650000	664332	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	24.54	24.50	39.04	26.0	0.0	
Channel									
Frequency (MHz)				647338	650000	664666	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.45	24.47	24.28	26.0	0.0	
Channel									
Frequency (MHz)				647169	650000	664169	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	24.31	24.58	24.36	26.0	0.0	
Channel									
Frequency (MHz)				647000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.45	24.64	24.34	26.0	0.0	

Par27Q n77_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F req.	Power Middle Ch. F req.	Power High Ch. F req.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63340	3499.98			
100	Pi2 BPSK	1	1	22.23				
100	Pi2 BPSK	1	137	23.06			24.0	0.0
100	Pi2 BPSK	1	251	23.04				
100	Pi2 BPSK	135	0	22.84				
100	Pi2 BPSK	135	49	22.83			24.0	0.0
100	Pi2 BPSK	135	136	22.85			24.0	0.0
100	Pi2 BPSK	270	0	22.81				
100	QPSK	1	1	22.89				
100	QPSK	1	137	22.89			24.0	0.0
100	QPSK	1	271	22.70				
100	QPSK	135	0	22.70				
100	QPSK	135	49	22.66			24.0	0.0
100	QPSK	135	136	22.78			24.0	0.0
100	QPSK	270	0	22.81			24.0	0.0
100	HQAM	1	1	20.82			24.0	0.0
100	HQAM	1	137	22.76			24.0	0.0
100	256QAM	1	1	22.65			21.5	2.5
Channel								
Frequency (MHz)				63300	63352	63366	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	23.09	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)				63268	63332	63400	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	3495.07	3499.98	3510	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63485.1	63532	63573	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	23.11	23.11	23.10	24.0	0.0
Channel								
Frequency (MHz)				3380	3499.98	3519.99	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	23.07	23.11	23.06	24.0	0.0
Channel								
Frequency (MHz)				63189	63332	63500	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	3475.02	3489.98	3505	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63134	63305	63532	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	23.11	23.10	23.08	24.0	0.0
Channel								
Frequency (MHz)				63100	63332	63666	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	3463	3499.98	3534.99	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63088	63332	63500	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)				3457.5	3499.98	3542.49	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	23.11	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)				63234	63332	63500	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	3453.03	3489.98	3544.58	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				23.06	23.07	23.07	24.0	0.0

Par27Q n77_Ant 7_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3469.98			
100	PV2 BPSK	1	1	24.23	24.23			
100	PV2 BPSK	1	137	23.83	24.03	26.0	26.0	0.0
100	PV2 BPSK	1	271	24.35	24.35			
100	PV2 BPSK	135	0	26.21	26.21	25.5	25.5	0.5
100	PV2 BPSK	135	69	24.41	24.41	26.0	26.0	0.0
100	PV2 BPSK	135	138	24.46	24.46	25.5	25.5	0.5
100	PV2 BPSK	270	0	26.37	26.37			
100	QPSK	1	1	24.40	24.40			
100	QPSK	1	137	24.00	24.00	26.0	26.0	0.0
100	QPSK	1	271	24.20	24.20			
100	QPSK	135	0	24.68	24.68			
100	QPSK	135	69	24.68	24.68	26.0	26.0	0.0
100	QPSK	135	138	24.72	24.72			
100	QPSK	270	0	26.00	26.00	25.0	25.0	1.0
100	16QAM	1	1	26.73	26.73	25.0	25.0	2.0
100	16QAM	1	1	26.85	26.85	25.0	25.0	2.0
100	256QAM	1	1	26.05	26.05	21.5	21.5	4.5
Channel								
	Frequency (MHz)			633000	633332	633668	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	24.45	24.46	24.43	26.0	0.0
Channel								
	Frequency (MHz)			630668	633332	635000	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	24.66	24.66	24.44	26.0	0.0
Channel								
	Frequency (MHz)			630200	633332	636332	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	24.41	24.40	24.41	26.0	0.0
Channel								
	Frequency (MHz)			3480	3469.98	3519.99	Turn-up time (dBm)	MPR (dB)
64	QPSK	1	1	24.44	24.40	24.40	26.0	0.0
Channel								
	Frequency (MHz)			631668	633332	635000	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	24.42	24.40	24.42	26.0	0.0
Channel								
	Frequency (MHz)			631334	633332	635332	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	24.43	24.41	24.46	26.0	0.0
Channel								
	Frequency (MHz)			631000	633332	635668	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	24.62	24.69	25.24	26.0	0.0
Channel								
	Frequency (MHz)			630668	633332	636000	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	24.42	24.46	25.40	26.0	0.0
Channel								
	Frequency (MHz)			630500	633332	636168	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	24.45	24.40	24.40	26.0	0.0
Channel								
	Frequency (MHz)			346510	3469.98	3474.38	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	26.46	26.44	26.41	26.0	0.0

Par270 n77_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PSK	1	1	17.40	18.40	19.30		0.0	
100	PS2 BPSK	1	137	19.52	19.45	19.39	21.0	0.0	
100	PS2 BPSK	1	1	19.46	19.54	19.32		0.0	
100	PS2 BPSK	135	0	19.48	19.47	19.42	21.0	0.0	
100	PS2 BPSK	135	136	19.48	19.53	19.43	21.0	0.0	
100	PS2 BPSK	135	136	19.44	19.55	19.46		0.0	
100	PS2 BPSK	270	0	19.43	19.44	19.39	21.0	0.0	
100	QPSK	1	1	19.53	19.58	19.47		0.0	
100	QPSK	1	137	19.42	19.50	19.42	21.0	0.0	
100	QPSK	1	271	19.42	19.56	19.38		0.0	
100	QPSK	135	0	19.40	19.52	19.43		0.0	
100	QPSK	135	136	19.40	19.57	19.44	21.0	0.0	
100	QPSK	135	136	19.42	19.42	19.40		0.0	
100	QPSK	270	0	19.48	19.49	19.35	21.0	0.0	
100	16QAM	1	1	19.43	19.51	19.43	21.0	0.0	
100	16QAM	1	137	19.56	19.49	19.40	20.8	0.0	
100	256QAM	1	1	19.82	19.90	19.80	18.5	2.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.42	19.46	19.37	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.50	19.56	19.32	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.49	19.50	19.44	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.52	19.51	19.34	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.40	19.57	19.45	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.51	19.57	19.30	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.44	19.43	19.32	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.48	19.45	19.38	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.40	19.43	19.37	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.43	19.47	19.33	21.0	0.0	



Par27Q n77_Ant 8						
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 2 Freq.	Power High Ch. 3 Freq.
Channel						
	Frequency (MHz)			63300	63332	
100	P2 BPSK	1	1	18.54		
100	P2 BPSK	1	137	18.54		20.5
100	P2 BPSK	1	271	18.93		
100	P2 BPSK	135	0	18.90		20.5
100	P2 BPSK	135	69	18.93		20.5
100	P2 BPSK	135	138	18.90		20.5
100	P2 BPSK	270	0	18.95		20.5
100	QPSK	1	1	18.95		
100	QPSK	1	137	18.93		20.5
100	QPSK	1	271	18.93		
100	QPSK	135	0	18.87		20.5
100	QPSK	135	69	18.90		20.5
100	QPSK	135	138	18.87		20.5
100	QPSK	270	0	18.90		20.5
100	16QAM	1	1	19.34		20.5
100	16QAM	1	1	19.48		20.5
100	256QAM	1	1	19.38		18.0
Channel						
	Frequency (MHz)			63300	63332	63366
90	QPSK	1	1	18.85	18.83	18.82
Channel						
	Frequency (MHz)			63068	63332	63300
80	QPSK	1	1	3406.02	3409.98	3410
Channel						
	Frequency (MHz)			63410	63332	63300
70	QPSK	1	1	18.85	18.85	18.81
Channel						
	Frequency (MHz)			63410	63332	63300
60	QPSK	1	1	18.86	18.87	18.78
Channel						
	Frequency (MHz)			63460	3409.98	3319.99
50	QPSK	1	1	18.86	18.87	18.78
Channel						
	Frequency (MHz)			63168	63332	63000
40	QPSK	1	1	18.91	18.83	18.86
Channel						
	Frequency (MHz)			63134	63332	63630
30	QPSK	1	1	18.85	18.88	18.87
Channel						
	Frequency (MHz)			19.94	18.83	18.85
20	QPSK	1	1	18.88	18.81	18.88
Channel						
	Frequency (MHz)			3405.02	63332	63000
10	QPSK	1	1	18.86	18.81	18.88
Channel						
	Frequency (MHz)			3405.01	3409.98	3404.98
0	QPSK	1	1	18.86	18.85	18.80

Par27Q n77_Ant 8_HPUE								
RFV (MHz)	Modulation	RB Size	RF Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3469.08				
100	P2-8PSK	1	1	20.93	20.96			
100	P2-8PSK	1	137	20.93	20.96	22.5	0.0	
100	P2-8PSK	1	271	20.93	20.96			
100	P2-8PSK	135	0	20.35	20.35	22.0	0.5	
100	P2-8PSK	135	136	20.35	20.36	22.5	0.0	
100	P2-8PSK	135	136	20.35	20.35	22.0	0.5	
100	P2-8PSK	270	0	20.32	20.32			
100	QPSK	1	1	20.93	20.96			
100	QPSK	1	137	20.93	20.96	22.5	0.0	
100	QPSK	1	271	20.93	20.96			
100	QPSK	135	0	18.78	18.78			
100	QPSK	135	136	20.32	20.32	22.5	0.0	
100	QPSK	135	136	19.80	19.80			
100	QPSK	270	0	18.76	18.76	21.5	1.0	
100	16QAM	1	1	18.39	18.39	21.0	1.5	
100	16QAM	1	1	18.46	18.46	20.0	2.8	
100	256QAM	1	1	16.98	16.98	18.5	4.5	
Channel								
Frequency (MHz)				633000	633332	633668	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	20.91	20.88	20.96	22.5	0.0
Channel								
Frequency (MHz)				630668	633332	634000	Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				3469.02	3469.98	3510		
80	QPSK	1	1	20.93	20.88	20.97	22.5	0.0
Channel								
Frequency (MHz)				3468.01	3469.08	3514.08	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	20.86	20.83	20.89	22.5	0.0
Channel								
Frequency (MHz)				630000	633332	633519	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0
Channel								
Frequency (MHz)				631668	633332	635000	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	20.93	20.92	20.87	22.5	0.0
Channel								
Frequency (MHz)				631889	633332	635332	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	20.93	20.92	20.87	22.5	0.0
Channel								
Frequency (MHz)				631000	633332	635668	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	20.93	20.92	20.87	22.5	0.0
Channel								
Frequency (MHz)				3469.02	3469.98	3540		
20	QPSK	1	1	20.96	20.94	20.90	22.5	0.0
Channel								
Frequency (MHz)				3467.97	3469.08	3542.49		
15	QPSK	1	1	20.91	20.87	20.89	22.5	0.0
Channel								
Frequency (MHz)				3465.03	3469.08	3544.38		
10	QPSK	1	1	20.94	20.89	20.97	22.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	21.54	21.77	21.71			
100	PQ2 BPSK	1	137	21.59	21.65	21.64	23.0	0.0	
100	PQ2 BPSK	1	271	21.60	21.75	21.66			
100	PQ2 BPSK	135	0	21.64	21.70	21.63	23.0	0.0	
100	PQ2 BPSK	135	69	21.53	21.65	21.67	23.0	0.0	
100	PQ2 BPSK	135	138	21.62	21.65	21.72			
100	PQ2 BPSK	270	0	21.52	21.74	21.67	23.0	0.0	
100	QPSK	1	1	21.66	21.78	21.74			
100	QPSK	1	137	21.53	21.65	21.73	23.0	0.0	
100	QPSK	1	271	21.58	21.72	21.61			
100	QPSK	135	0	21.60	21.65	21.69			
100	QPSK	135	69	21.65	21.75	21.74	23.0	0.0	
100	QPSK	135	138	21.53	21.70	21.60			
100	QPSK	270	0	21.64	21.67	21.66	23.0	0.0	
100	16QAM	1	1	21.58	21.74	21.65	23.0	0.0	
100	64QAM	1	1	21.16	21.21	21.07	22.5	0.5	
100	256QAM	1	1	18.14	18.16	18.10	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.57	21.67	21.62	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.55	21.66	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.53	21.63	21.65	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.55	21.68	21.65	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.65	21.64	21.72	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.51	21.60	21.59	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.56	21.74	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.58	21.63	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.55	21.77	21.84	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.57	21.69	21.68	23.0	0.0	

Par270 n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	23.61	23.70	23.68			
100	PQ2 BPSK	1	137	23.58	23.62	23.65	25.0	0.0	
100	PQ2 BPSK	1	271	23.53	23.61	23.59			
100	PQ2 BPSK	135	0	22.98	23.02	22.99	24.5	0.5	
100	PQ2 BPSK	135	69	23.40	23.52	23.41	25.0	0.0	
100	PQ2 BPSK	135	138	22.88	23.01	22.98			
100	PQ2 BPSK	270	0	22.95	23.03	22.97	24.5	0.5	
100	QPSK	1	1	23.60	23.71	23.61			
100	QPSK	1	137	23.56	23.67	23.54	25.0	0.0	
100	QPSK	1	271	23.37	23.42	23.41			
100	QPSK	135	0	22.42	22.48	22.39			
100	QPSK	135	69	22.60	22.57	22.58	25.0	0.0	
100	QPSK	135	138	22.47	22.57	22.50			
100	QPSK	270	0	22.44	22.52	22.40	24.0	1.0	
100	16QAM	1	1	22.52	22.65	22.58	24.0	1.0	
100	64QAM	1	1	21.15	21.21	21.07	22.5	2.5	
100	256QAM	1	1	18.11	18.16	18.14	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.51	23.69	23.59	Tune-up limit (dbm)	MPR (db)	
90	QPSK	1	1	23.42	23.60	23.54	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.55	23.62	23.55	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.54	23.69	23.62	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.55	23.62	23.64	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.51	23.64	23.62	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.51	23.64	23.61	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.49	23.69	23.59	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.45	23.60	23.64	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.54	23.66	23.54	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.49	23.64	23.61	Tune-up limit (dbm)	MPR (db)	

Par27Q n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1		21.70				
100	PQ2 BPSK	1	137		21.73		23.0	0.0	
100	PQ2 BPSK	1	271		21.74				
100	PQ2 BPSK	135	0		21.74		23.0	0.0	
100	PQ2 BPSK	135	69		21.78		23.0	0.0	
100	PQ2 BPSK	135	138		21.76		23.0	0.0	
100	PQ2 BPSK	270	0		21.78				
100	QPSK	1	1		21.85				
100	QPSK	1	137		21.81		23.0	0.0	
100	QPSK	1	271		21.81				
100	QPSK	135	0		21.80				
100	QPSK	135	69		21.82		23.0	0.0	
100	QPSK	135	138		21.79				
100	QPSK	270	0		21.72		23.0	0.0	
100	16QAM	1	1		21.82		23.0	0.0	
100	64QAM	1	1		21.21		22.5	0.5	
100	256QAM	1	1		18.17		20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1		21.78	34.99	35.04	35.09	MPR (dB)
90	QPSK	1	1		21.78	34.99	35.04	35.09	MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1		21.79	35.02	35.00	35.00	MPR (dB)
80	QPSK	1	1		21.79	35.02	35.00	35.00	MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1		21.80	34.98	35.05	35.05	MPR (dB)
70	QPSK	1	1		21.80	34.98	35.05	35.05	MPR (dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1		21.72	34.99	35.02	35.02	MPR (dB)
60	QPSK	1	1		21.72	34.99	35.02	35.02	MPR (dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1		21.80	34.98	35.05	35.05	MPR (dB)
50	QPSK	1	1		21.80	34.98	35.05	35.05	MPR (dB)
Channel									
Frequency (MHz)									
40	QPSK	1	1		21.72	34.99	35.02	35.02	MPR (dB)
40	QPSK	1	1		21.72	34.99	35.02	35.02	MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1		21.78	34.99	35.04	35.09	MPR (dB)
30	QPSK	1	1		21.78	34.99	35.04	35.09	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1		21.75	34.98	35.00	35.00	MPR (dB)
20	QPSK	1	1		21.75	34.98	35.00	35.00	MPR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	1		21.75	34.98	35.02	35.02	MPR (dB)
10	QPSK	1	1		21.75	34.98	35.02	35.02	MPR (dB)
Channel									
Frequency (MHz)									
0	QPSK	1	1		21.70	34.98	35.04	35.04	MPR (dB)
0	QPSK	1	1		21.70	34.98	35.04	35.04	MPR (dB)

Par27Q n77_Ant 10_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				633332		633332	
Frequency (MHz)				3499.98			
100	PQ2 BPSK	1	1	23.80			
100	PQ2 BPSK	1	137	23.67		25.0	0.0
100	PQ2 BPSK	1	271	23.73			
100	PQ2 BPSK	135	0	23.14		24.5	0.5
100	PQ2 BPSK	135	69	23.63		25.0	0.0
100	PQ2 BPSK	135	138	23.10		24.5	0.5
100	PQ2 BPSK	270	0	23.06			
100	QPSK	1	1	23.81			
100	QPSK	1	137	23.31		25.0	0.0
100	QPSK	1	271	23.38			
100	QPSK	135	0	22.51			
100	QPSK	135	69	23.22		25.0	0.0
100	QPSK	135	138	22.19			
100	QPSK	270	0	22.26		24.0	1.0
100	16QAM	1	1	22.83		24.0	1.0
100	64QAM	1	1	21.21		22.5	2.5
100	256QAM	1	1	19.17		20.5	4.5
Channel				633000	633332	633696	
Frequency (MHz)				3499	3499.98	3504.99	Time-up time (dBm)
90	QPSK	1	1	23.80	23.80	23.73	25.0 0.0
Channel				632698	633332	633696	
Frequency (MHz)				3490.02	3499.98	3510	Time-up time (dBm)
80	QPSK	1	1	23.79	23.71	23.74	25.0 0.0
Channel				632334	633332	633696	
Frequency (MHz)				3485.01	3499.98	3514.98	Time-up time (dBm)
70	QPSK	1	1	23.74	23.76	23.71	25.0 0.0
Channel				632000	633332	633696	
Frequency (MHz)				3480.02	3499.98	3519.99	Time-up time (dBm)
60	QPSK	1	1	23.80	23.80	23.75	25.0 0.0
Channel				631698	633332	633696	
Frequency (MHz)				3475.02	3499.98	3524.98	Time-up time (dBm)
50	QPSK	1	1	23.74	23.80	23.73	25.0 0.0
Channel				631334	633332	633696	
Frequency (MHz)				3470.01	3499.98	3529.98	Time-up time (dBm)
40	QPSK	1	1	23.79	23.79	23.76	25.0 0.0
Channel				631000	633332	633696	
Frequency (MHz)				3465.01	3499.98	3534.99	Time-up time (dBm)
30	QPSK	1	1	23.73	23.76	23.79	25.0 0.0
Channel				630698	633332	633696	
Frequency (MHz)				3460.02	3499.98	3540	Time-up time (dBm)
20	QPSK	1	1	23.75	23.75	23.74	25.0 0.0
Channel				630334	633332	633696	
Frequency (MHz)				3455.01	3499.98	3544.98	Time-up time (dBm)
15	QPSK	1	1	23.77	23.72	23.77	25.0 0.0
Channel				630334	633332	633696	
Frequency (MHz)				3450.01	3499.98	3549.98	Time-up time (dBm)
10	QPSK	1	1	23.75	23.72	23.72	25.0 0.0

Par27Q n78_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				650000			
Frequency (MHz)				3750			
100	PQ2 BPSK	1	1	23.20			
100	PQ2 BPSK	1	137	23.21		24.0	0.0
100	PQ2 BPSK	1	271	23.20			
100	PQ2 BPSK	135	0	23.11		24.0	0.0
100	PQ2 BPSK	135	69	23.14		24.0	0.0
100	PQ2 BPSK	135	138	23.08		24.0	0.0
100	PQ2 BPSK	270	0	23.03			
100	QPSK	1	1	23.22			
100	QPSK	1	137	23.06		24.0	0.0
100	QPSK	1	271	23.12			
100	QPSK	135	0	23.06			
100	QPSK	135	69	23.11		24.0	0.0
100	QPSK	135	138	23.04			
100	QPSK	270	0	23.06		24.0	0.0
100	16QAM	1	1	23.06		24.0	0.0
100	64QAM	1	1	23.04		24.0	0.0
100	256QAM	1	1	22.97		24.0	0.0
Channel				649998	650000	650002	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98	
90	QPSK	1	1	23.04	23.04	23.10	24.0 0.0
Channel				649334	650000	650666	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3740.01	3750	3760.99	
80	QPSK	1	1	22.97	22.95	23.01	24.0 0.0
Channel				648900	650000	651000	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3735 <td>3750</td> <td>3765</td> <th></th>	3750	3765	
70	QPSK	1	1	23.01	22.98	23.01	24.0 0.0
Channel				648000	650000	651332	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3730.02 <td>3750</td> <td>3769.98</td> <th></th>	3750	3769.98	
60	QPSK	1	1	23.00	22.94	23.02	24.0 0.0
Channel				648334	650000	651666	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3725.01 <td>3750</td> <td>3769.99</td> <th></th>	3750	3769.99	
50	QPSK	1	1	23.02	23.01	23.01	24.0 0.0
Channel				648000	650000	652000	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3720 <td>3750</td> <td>3780</td> <th></th>	3750	3780	
40	QPSK	1	1	22.99	22.93	23.07	24.0 0.0
Channel				647698	650000	652332	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3715.02 <td>3750</td> <td>3784.98</td> <th></th>	3750	3784.98	
30	QPSK	1	1	23.01	22.99	23.05	24.0 0.0
Channel				647334	650000	652666	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3710.01 <td>3750</td> <td>3789.99</td> <th></th>	3750	3789.99	
20	QPSK	1	1	23.00	23.01	23.02	24.0 0.0
Channel				647168	650000	653000	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3707.53 <td>3750</td> <td>3792.44</td> <th></th>	3750	3792.44	
15	QPSK	1	1	22.98	23.02	23.04	24.0 0.0
Channel				647000	650000	653330	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3705 <td>3750</td> <td>3795</td> <th></th>	3750	3795	
10	QPSK	1	1	23.06	22.99	23.03	24.0 0.0

Par27Q n78_Ant 4_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				650000			
Frequency (MHz)				3750			
100	PQ2 BPSK	1	1	23.49			
100	PQ2 BPSK	1	137	25.85		27.0	0.0
100	PQ2 BPSK	1	271	25.85			
100	PQ2 BPSK	135	0	25.80		27.0	0.0
100	PQ2 BPSK	135	69	25.85		27.0	0.0
100	PQ2 BPSK	135	138	25.83		27.0	0.0
100	PQ2 BPSK	270	0	25.83			
100	QPSK	1	1	25.91			
100	QPSK	1	137	25.81		27.0	0.0
100	QPSK	1	271	25.78			
100	QPSK	135	0	25.85			
100	QPSK	135	69	25.86		27.0	0.0
100	QPSK	135	138	25.81			
100	QPSK	270	0	25.83		27.0	0.0
100	16QAM	1	1	25.88		27.0	0.0
100	64QAM	1	1	25.03		26.0	1.0
100	256QAM	1	1	23.15		24.0	3.0
Channel				649998	650000	650032	Time-up limit (dBm)
Frequency (MHz)				3744.02	3750	3754.68	MPR (dB)
90	QPSK	1	1	25.80	25.88	25.88	27.0 0.0
Channel				649334	650000	650096	Time-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.09	MPR (dB)
80	QPSK	1	1	25.74	25.75	25.84	27.0 0.0
Channel				648900	650000	650100	Time-up limit (dBm)
Frequency (MHz)				3735	3750	3765	MPR (dB)
70	QPSK	1	1	25.71	25.82	25.84	27.0 0.0
Channel				648000	650000	650132	Time-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	MPR (dB)
60	QPSK	1	1	25.71	25.77	25.86	27.0 0.0
Channel				648334	650000	650166	Time-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.89	MPR (dB)
50	QPSK	1	1	25.74	25.78	25.86	27.0 0.0
Channel				648000	650000	650200	Time-up limit (dBm)
Frequency (MHz)				3720	3750	3780	MPR (dB)
40	QPSK	1	1	25.69	25.81	25.89	27.0 0.0
Channel				647698	650000	650232	Time-up limit (dBm)
Frequency (MHz)				3715.02	3750	3784.58	MPR (dB)
30	QPSK	1	1	25.77	25.75	25.84	27.0 0.0
Channel				647334	650000	650266	Time-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.09	MPR (dB)
20	QPSK	1	1	25.74	25.82	25.86	27.0 0.0
Channel				647168	650000	650296	Time-up limit (dBm)
Frequency (MHz)				3707.53	3750	3792.48	MPR (dB)
15	QPSK	1	1	25.76	25.79	25.77	27.0 0.0
Channel				647000	650000	650300	Time-up limit (dBm)
Frequency (MHz)				3705	3750	3792	MPR (dB)
10	QPSK	1	1	25.71	25.82	25.78	27.0 0.0

Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)	
Channel				633332		633332			
Frequency (MHz)				2499.98					
100	PQ2 BPSK	1	1	23.03			24.0	0.0	
100	PQ2 BPSK	1	137	23.00					
100	PQ2 BPSK	1	271	23.01					
100	PQ2 BPSK	135	0	22.98			24.0	0.0	
100	PQ2 BPSK	135	69	23.03			24.0	0.0	
100	PQ2 BPSK	135	138	23.02			24.0	0.0	
100	PQ2 BPSK	270	0	22.99					
100	QPSK	1	1	23.05					
100	QPSK	1	137	23.03			24.0	0.0	
100	QPSK	1	271	22.94					
100	QPSK	135	0	23.00					
100	QPSK	135	69	23.02			24.0	0.0	
100	QPSK	135	138	23.01					
100	QPSK	270	0	23.00					
100	16QAM	1	1	22.99			24.0	0.0	
100	64QAM	1	1	22.96			24.0	0.0	
100	256QAM	1	1	22.95			24.0	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(dB)	
90	QPSK	1	1	23.03	23.01	22.95	24.0	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)	
80	QPSK	1	1	22.96	22.95	23.03	24.0	0.0	
Channel				633334	633332	633332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3514.98	(dbm)	(dB)	
70	QPSK	1	1	22.94	22.98	22.97	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3518.99	(dbm)	(dB)	
60	QPSK	1	1	23.02	23.02	22.95	24.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3495.02	3499.98	3525	(dbm)	(dB)	
50	QPSK	1	1	22.95	22.94	22.94	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)	
40	QPSK	1	1	22.99	23.02	22.98	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)	
30	QPSK	1	1	23.02	22.97	22.94	24.0	0.0	
Channel				3460.02	3499.98	3540	(dbm)	(dB)	
20	QPSK	1	1	23.00	22.95	23.04	24.0	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3452.5	3499.98	3542.49	(dbm)	(dB)	
15	QPSK	1	1	22.95	22.97	23.03	24.0	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3452.01	3499.98	3544.98	(dbm)	(dB)	
10	QPSK	1	1	22.91	23.02	22.95	24.0	0.0	

Part27Q n78_Ant 4_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)	
Channel				633332		633332			
Frequency (MHz)				2499.98					
100	PQ2 BPSK	1	1	25.89			27.0	0.0	
100	PQ2 BPSK	1	137	25.89					
100	PQ2 BPSK	1	271	25.91					
100	PQ2 BPSK	135	0	25.89			27.0	0.0	
100	PQ2 BPSK	135	69	25.94			27.0	0.0	
100	PQ2 BPSK	135	138	25.93			27.0	0.0	
100	PQ2 BPSK	270	0	25.90					
100	QPSK	1	1	26.00					
100	QPSK	1	137	25.95			27.0	0.0	
100	QPSK	1	271	25.93					
100	QPSK	135	0	25.94					
100	QPSK	135	69	25.98			27.0	0.0	
100	QPSK	135	138	25.93					
100	QPSK	270	0	25.97					
100	16QAM	1	1	25.97			27.0	0.0	
100	64QAM	1	1	25.96			26.0	1.0	
100	256QAM	1	1	23.97			24.0	3.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(dB)	
90	QPSK	1	1	25.88	25.84	25.85	27.0	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)	
80	QPSK	1	1	25.88	25.84	25.87	27.0	0.0	
Channel				633334	633332	633332	Tune-up limit	MPR	
Frequency (MHz)				3495.01	3499.98	3514.98	(dbm)	(dB)	
70	QPSK	1	1	25.91	25.87	25.89	27.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3518.99	(dbm)	(dB)	
60	QPSK	1	1	25.95	25.84	25.87	27.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3495.02	3499.98	3525	(dbm)	(dB)	
50	QPSK	1	1	25.94	25.87	25.95	27.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)	
40	QPSK	1	1	25.95	25.87	25.85	27.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)	
30	QPSK	1	1	25.88	25.84	25.90	27.0	0.0	
Channel				3460.02	3499.98	3540	(dbm)	(dB)	
20	QPSK	1	1	25.92	25.86	25.87	27.0	0.0	
Channel				630500	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3452.5	3499.98	3542.49	(dbm)	(dB)	
15	QPSK	1	1	25.90	25.85	25.85	27.0	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3452.01	3499.98	3544.98	(dbm)	(dB)	
10	QPSK	1	1	25.87	25.89	25.94	27.0	0.0	

Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.00	23.00		
100	PI2 BPSK	1	137	22.92		24.0	0.0
100	PI2 BPSK	1	271	22.91			
100	PI2 BPSK	135	0	22.93		24.0	0.0
100	PI2 BPSK	135	69	22.95		24.0	0.0
100	PI2 BPSK	135	138	22.87		24.0	0.0
100	PI2 BPSK	270	0	22.91			
100	QPSK	1	1	23.05			
100	QPSK	1	137	23.04		24.0	0.0
100	QPSK	1	271	23.03			
100	QPSK	135	0	23.02			
100	QPSK	135	69	23.04		24.0	0.0
100	QPSK	135	138	22.95			
100	QPSK	270	0	22.95		24.0	0.0
100	16QAM	1	1	22.31		24.0	0.0
100	64QAM	1	1	22.36		23.5	0.5
100	256QAM	1	1	20.58		21.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.85	22.83	22.84	24.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.82	22.80	22.84	24.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.83	22.80	22.83	24.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.90	22.88	22.94	24.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.95	22.81	22.94	24.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.95	22.83	22.83	24.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.95	22.81	22.92	24.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.95	22.84	22.85	24.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.88	22.88	22.88	24.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.86	22.85	22.85	24.0 0.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	24.55			
100	PI2 BPSK	1	137	24.58		26.0	0.0
100	PI2 BPSK	1	271	24.52			
100	PI2 BPSK	135	0	24.50		25.5	0.5
100	PI2 BPSK	135	69	24.53		26.0	0.0
100	PI2 BPSK	135	138	24.58		25.5	0.5
100	PI2 BPSK	270	0	24.51			
100	QPSK	1	1	24.60			
100	QPSK	1	137	24.49		26.0	0.0
100	QPSK	1	271	24.55			
100	QPSK	135	0	24.06			
100	QPSK	135	69	24.57		26.0	0.0
100	QPSK	135	138	24.09			
100	QPSK	270	0	23.95		25.0	1.0
100	16QAM	1	1	24.23		25.0	1.0
100	64QAM	1	1	22.61		23.5	2.5
100	256QAM	1	1	20.89		21.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.53	24.58	24.53	26.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.55	24.59	24.59	26.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.56	24.53	24.58	26.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.55	24.58	24.57	26.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.55	24.57	24.58	26.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.56	24.54	24.54	26.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.56	24.54	24.54	26.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.58	24.58	24.55	26.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.59	24.58	24.58	26.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.53	24.59	24.54	26.0 0.0

Part27Q n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332				
Frequency (MHz)				2499.98					
100	PQ2 BPSK	1	1	23.10			24.0	0.0	
100	PQ2 BPSK	1	137	23.12					
100	PQ2 BPSK	1	271	23.10					
100	PQ2 BPSK	135	0	23.17			24.0	0.0	
100	PQ2 BPSK	135	69	23.13			24.0	0.0	
100	PQ2 BPSK	135	138	23.10			24.0	0.0	
100	PQ2 BPSK	270	0	23.10					
100	QPSK	1	1	23.18			24.0	0.0	
100	QPSK	1	137	23.12					
100	QPSK	1	271	23.10					
100	QPSK	135	0	23.09			24.0	0.0	
100	QPSK	135	69	23.12					
100	QPSK	135	138	22.50					
100	QPSK	270	0	23.14			24.0	0.0	
100	16QAM	1	1	23.12			24.0	0.0	
100	64QAM	1	1	22.98			23.5	0.5	
100	256QAM	1	1	21.11			21.5	2.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	23.13	23.13	23.13	24.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	23.12	23.08	23.09	24.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	23.15	23.13	23.12	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.98			
60	QPSK	1	1	23.14	23.12	23.09	24.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	23.11	23.10	23.13	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	23.10	23.09	23.04	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	23.13	23.09	23.14	24.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	23.14	23.05	23.05	24.0	0.0	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1	23.12	23.12	23.13	24.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1	23.10	23.07	23.05	24.0	0.0	

Part27Q n78_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332				
Frequency (MHz)				3499.98					
100	PQ2 BPSK	1	1	24.44			26.0	0.0	
100	PQ2 BPSK	1	137	24.38					
100	PQ2 BPSK	1	271	24.39					
100	PQ2 BPSK	135	0	24.40			25.5	0.5	
100	PQ2 BPSK	135	69	24.42			26.0	0.0	
100	PQ2 BPSK	135	138	24.41			25.5	0.5	
100	PQ2 BPSK	270	0	24.38					
100	QPSK	1	1	24.45			26.0	0.0	
100	QPSK	1	137	24.37					
100	QPSK	1	271	24.10					
100	QPSK	135	0	24.33			26.0	0.0	
100	QPSK	135	69	24.40					
100	QPSK	135	138	24.22					
100	QPSK	270	0	24.21			25.0	1.0	
100	16QAM	1	1	24.14			25.0	1.0	
100	64QAM	1	1	23.27			23.5	2.5	
100	256QAM	1	1	21.14			21.5	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	24.43	24.43	24.42	26.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	24.44	24.42	24.39	26.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	24.43	24.38	24.40	26.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.98			
60	QPSK	1	1	24.40	24.43	24.43	26.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	24.42	24.43	24.41	26.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	24.39	24.40	24.42	26.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	24.41	24.42	24.44	26.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	24.40	24.40	24.43	26.0	0.0	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.49			
15	QPSK	1	1	24.39	24.39	24.42	26.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1	24.40	24.39	24.42	26.0	0.0	



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				3750			
Frequency (MHz)				19.57			
100	PQ2 BPSK	1	1	19.57			
100	PQ2 BPSK	1	137	19.57		21.0	0.0
100	PQ2 BPSK	1	271	19.54			
100	PQ2 BPSK	135	0	19.56		21.0	0.0
100	PQ2 BPSK	135	69	19.55		21.0	0.0
100	PQ2 BPSK	135	138	19.64		21.0	0.0
100	PQ2 BPSK	270	0	19.64			
100	QPSK	1	1	19.65			
100	QPSK	1	137	19.57		21.0	0.0
100	QPSK	1	271	19.54			
100	QPSK	135	0	19.60			
100	QPSK	135	69	19.65		21.0	0.0
100	QPSK	135	138	19.61			
100	QPSK	270	0	19.55		21.0	0.0
100	16QAM	1	1	19.62		21.0	0.0
100	64QAM	1	1	18.74		20.5	0.5
100	256QAM	1	1	18.75		18.5	2.5
Channel				648968	650000	650332	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3743.02	3750	3754.98	
90	QPSK	1	1	19.62	19.60	19.48	21.0 0.0
Channel				648334	650000	650666	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3740.01	3750	3760.99	
80	QPSK	1	1	19.51	19.56	19.52	21.0 0.0
Channel				649500	650000	651000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	19.58	19.63	19.58	21.0 0.0
Channel				648968	650000	651332	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3730.01	3750	3774.99	
60	QPSK	1	1	19.56	19.61	19.47	21.0 0.0
Channel				648334	650000	651666	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99	
50	QPSK	1	1	19.57	19.60	19.51	21.0 0.0
Channel				648000	650000	652000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	19.49	19.50	19.49	21.0 0.0
Channel				647606	650000	652532	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3715.02	3760.00	3764.98	
30	QPSK	1	1	19.55	19.56	19.51	21.0 0.0
Channel				647234	650000	652806	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3710.01	3750	3769.99	
20	QPSK	1	1	19.58	19.55	19.47	21.0 0.0
Channel				647168	650000	652932	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3707.50	3750	3762.48	
15	QPSK	1	1	19.65	19.57	19.47	21.0 0.0
Channel				647000	650000	653000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3705	3750	3765	
10	QPSK	1	1	19.62	19.57	19.55	21.0 0.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				3750			
Frequency (MHz)				19.58			
100	PQ2 BPSK	1	1	19.58			
100	PQ2 BPSK	1	137	21.44		23.0	0.0
100	PQ2 BPSK	1	271	21.53			
100	PQ2 BPSK	135	0	20.70		22.5	0.5
100	PQ2 BPSK	135	69	21.23		23.0	0.0
100	PQ2 BPSK	135	138	20.82		22.5	0.5
100	PQ2 BPSK	270	0	20.78			
100	QPSK	1	1	21.60			
100	QPSK	1	137	21.52		23.0	0.0
100	QPSK	1	271	21.54			
100	QPSK	135	0	20.17			
100	QPSK	135	69	21.28		23.0	0.0
100	QPSK	135	138	20.32			
100	QPSK	270	0	20.23		22.0	1.0
100	16QAM	1	1	20.28		22.0	1.0
100	64QAM	1	1	18.74		20.5	2.5
100	256QAM	1	1	18.75		18.5	4.5
Channel				648968	650000	650332	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3743.02	3750	3754.98	
90	QPSK	1	1	21.63	21.50	21.48	23.0 0.0
Channel				648334	650000	650666	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3740.01	3750	3760.99	
80	QPSK	1	1	21.54	21.49	21.52	23.0 0.0
Channel				649500	650000	651000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	21.51	21.49	21.47	23.0 0.0
Channel				648968	650000	651332	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3730.01	3750	3774.99	
60	QPSK	1	1	21.59	21.51	21.49	23.0 0.0
Channel				648334	650000	651666	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99	
50	QPSK	1	1	21.52	21.46	21.47	23.0 0.0
Channel				648000	650000	652000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	21.51	21.51	21.47	23.0 0.0
Channel				647606	650000	652532	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3715.02	3760.00	3764.98	
30	QPSK	1	1	21.55	21.48	21.46	23.0 0.0
Channel				647234	650000	652806	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3710.01	3750	3769.99	
20	QPSK	1	1	21.56	21.48	21.46	23.0 0.0
Channel				647168	650000	652932	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3707.50	3750	3762.48	
15	QPSK	1	1	21.55	21.49	21.48	23.0 0.0
Channel				647000	650000	653000	Tune-up limit (dBm) MPR (dB)
Frequency (MHz)				3705	3750	3765	
10	QPSK	1	1	21.56	21.50	21.45	23.0 0.0

Part27Q n78_Ant 8								
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				633000	633332	633666		
Frequency (MHz)				3493.98				
100	PQ2 BPSK	1	1	18.93	18.93			
100	PQ2 BPSK	1	137	18.87	18.87		20.0	0.0
100	PQ2 BPSK	1	271	18.94				
100	PQ2 BPSK	135	0	18.92	18.92		20.0	0.0
100	PQ2 BPSK	135	69	18.89			20.0	0.0
100	PQ2 BPSK	135	138	18.81			20.0	0.0
100	PQ2 BPSK	270	0	18.81				
100	QPSK	1	1	18.96				
100	QPSK	1	137	18.87			20.0	0.0
100	QPSK	1	271	18.89				
100	QPSK	135	0	18.94				
100	QPSK	135	69	18.95			20.0	0.0
100	QPSK	135	138	18.90				
100	QPSK	270	0	18.81			20.0	0.0
100	16QAM	1	1	18.90			20.0	0.0
100	64QAM	1	1	18.29			19.5	0.5
100	256QAM	1	1	18.31			17.5	2.5
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.98	(dbm)	(dB)
90	QPSK	1	1	18.87	18.91	18.81	20.0	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)
80	QPSK	1	1	18.87	18.85	18.85	20.0	0.0
Channel				633334	633332	633332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(dB)
70	QPSK	1	1	18.81	18.80	18.78	20.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3486	3499.98	3518.98	(dbm)	(dB)
60	QPSK	1	1	18.88	18.79	18.81	20.0	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3478.02	3499.98	3520	(dbm)	(dB)
50	QPSK	1	1	18.87	18.85	18.80	20.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)
40	QPSK	1	1	18.90	18.83	18.87	20.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)
30	QPSK	1	1	18.90	18.91	18.83	20.0	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(dB)
20	QPSK	1	1	18.83	18.80	18.81	20.0	0.0
Channel				630000	633332	636366	Tune-up limit	MPR
Frequency (MHz)				3452.5	3499.98	3542.69	(dbm)	(dB)
15	QPSK	1	1	18.90	18.83	18.82	20.0	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dbm)	(dB)
10	QPSK	1	1	18.86	18.76	18.83	20.0	0.0

Part27Q n78_Ant 8_HPUE								
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				633000	633332	633666		
Frequency (MHz)				3493.98				
100	PQ2 BPSK	1	1	20.87	20.87			
100	PQ2 BPSK	1	137	20.86	20.86		22.0	0.0
100	PQ2 BPSK	1	271	20.90				
100	PQ2 BPSK	135	0	20.23	20.23		21.5	0.5
100	PQ2 BPSK	135	69	20.80			22.0	0.0
100	PQ2 BPSK	135	138	20.31			21.5	0.5
100	PQ2 BPSK	270	0	20.28				
100	QPSK	1	1	20.91	20.91			
100	QPSK	1	137	20.79			22.0	0.0
100	QPSK	1	271	20.53				
100	QPSK	135	0	19.74				
100	QPSK	135	69	20.67			22.0	0.0
100	QPSK	135	138	18.90				
100	QPSK	270	0	19.69			21.0	1.0
100	16QAM	1	1	19.90			21.0	1.0
100	64QAM	1	1	18.29			19.5	2.5
100	256QAM	1	1	18.31			17.5	4.5
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.98	(dbm)	(dB)
90	QPSK	1	1	20.87	20.88	20.83	22.0	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)
80	QPSK	1	1	20.80	20.84	20.80	22.0	0.0
Channel				632334	633332	633332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(dB)
70	QPSK	1	1	20.86	20.81	20.83	22.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3486	3499.98	3518.98	(dbm)	(dB)
60	QPSK	1	1	20.87	20.84	20.88	22.0	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3478.02	3499.98	3520	(dbm)	(dB)
50	QPSK	1	1	20.83	20.84	20.88	22.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)
40	QPSK	1	1	20.92	20.77	20.89	22.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)
30	QPSK	1	1	20.83	20.79	20.85	22.0	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(dB)
20	QPSK	1	1	20.87	20.83	20.84	22.0	0.0
Channel				630000	633332	636366	Tune-up limit	MPR
Frequency (MHz)				3452.5	3499.98	3542.69	(dbm)	(dB)
15	QPSK	1	1	20.85	20.86	20.87	22.0	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dbm)	(dB)
10	QPSK	1	1	20.75	20.73	20.84	22.0	0.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.72	21.72		
100	PI2 BPSK	1	137	21.68		23.0	0.0
100	PI2 BPSK	1	271	21.71			
100	PI2 BPSK	135	0	21.72		23.0	0.0
100	PI2 BPSK	135	69	21.74		23.0	0.0
100	PI2 BPSK	135	138	21.65		23.0	0.0
100	PI2 BPSK	270	0	21.69		23.0	0.0
100	QPSK	1	1	21.75			
100	QPSK	1	137	21.68		23.0	0.0
100	QPSK	1	271	21.73			
100	QPSK	135	0	21.61			
100	QPSK	135	69	21.66		23.0	0.0
100	QPSK	135	138	21.64		23.0	0.0
100	QPSK	270	0	21.66		23.0	0.0
100	16QAM	1	1	21.67		23.0	0.0
100	64QAM	1	1	21.16		22.5	0.5
100	256QAM	1	1	19.05		20.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.72	650000	660332	Turn-up time (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.60	650000	659698	Turn-up time (dBm)
Channel							
Frequency (MHz)							
70	QPSK	1	1	21.73	650000	651000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.68	650000	650958	Turn-up time (dBm)
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.67	650000	650500	Turn-up time (dBm)
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.64	650000	652332	Turn-up time (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.71	650000	652698	Turn-up time (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.69	650000	653098	Turn-up time (dBm)
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.68	650000	653000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.66	650000	652158	Turn-up time (dBm)

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.62	23.62		
100	PI2 BPSK	1	137	23.60	23.60	25.0	0.0
100	PI2 BPSK	1	271	23.63	23.63		
100	PI2 BPSK	135	0	23.64	23.64	24.5	0.5
100	PI2 BPSK	135	69	23.67	23.67	25.0	0.0
100	PI2 BPSK	135	138	23.60	23.60	24.5	0.5
100	PI2 BPSK	270	0	23.56	23.56		
100	QPSK	1	1	23.71	23.71		
100	QPSK	1	137	23.69	23.69	25.0	0.0
100	QPSK	1	271	23.64	23.64		
100	QPSK	135	0	22.52	22.52		
100	QPSK	135	69	23.56	23.56	25.0	0.0
100	QPSK	135	138	22.52	22.52		
100	QPSK	270	0	22.38	22.38	24.0	1.0
100	16QAM	1	1	22.05	22.05	24.0	1.0
100	64QAM	1	1	21.16	21.16	22.5	2.5
100	256QAM	1	1	19.05	19.05	20.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.53	23.70	23.63	25.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.60	23.64	23.63	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.58	23.61	23.62	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.60	23.64	23.63	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.52	23.64	23.60	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.59	23.69	23.61	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.57	23.63	23.65	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.60	23.63	23.60	25.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.57	23.63	23.65	25.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.55	23.70	23.65	25.0

Part27Q n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				633332	633332		
Frequency (MHz)				2493.98			
100	PQ2 BPSK	1	1	21.73			
100	PQ2 BPSK	1	137	21.70		23.0	0.0
100	PQ2 BPSK	1	271	21.68			
100	PQ2 BPSK	135	0	21.67		23.0	0.0
100	PQ2 BPSK	135	69	21.70		23.0	0.0
100	PQ2 BPSK	135	138	21.68		23.0	0.0
100	PQ2 BPSK	270	0	21.73			
100	QPSK	1	1	21.81			
100	QPSK	1	137	21.68		23.0	0.0
100	QPSK	1	271	21.74			
100	QPSK	135	0	21.72			
100	QPSK	135	69	21.77		23.0	0.0
100	QPSK	135	138	21.75			
100	QPSK	270	0	21.75		23.0	0.0
100	16QAM	1	1	21.69		23.0	0.0
100	64QAM	1	1	21.45		22.5	0.5
100	256QAM	1	1	19.47		20.5	2.5
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.98	
90	QPSK	1	1	21.72	21.71	21.68	23.0 0.0
Channel				632668	633332	634000	
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	21.80	21.69	21.60	23.0 0.0
Channel				632334	633332	634332	
Frequency (MHz)				3485.01	3499.98	3514.98	
70	QPSK	1	1	21.69	21.68	21.67	23.0 0.0
Channel				632000	633332	634666	
Frequency (MHz)				3480	3499.98	3518.98	
60	QPSK	1	1	21.80	21.68	21.69	23.0 0.0
Channel				631668	633332	635000	
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	21.67	21.62	21.58	23.0 0.0
Channel				631334	633332	635332	
Frequency (MHz)				3470.01	3499.98	3529.98	
40	QPSK	1	1	21.76	21.60	21.60	23.0 0.0
Channel				631000	633332	635666	
Frequency (MHz)				3465	3499.98	3534.98	
30	QPSK	1	1	21.79	21.60	21.60	23.0 0.0
Channel				3460.02	3499.98	3540	
20	QPSK	1	1	21.79	21.62	21.67	23.0 0.0
Channel				630500	633332	636166	
Frequency (MHz)				3457.5	3499.98	3542.98	
15	QPSK	1	1	21.71	21.57	21.56	23.0 0.0
Channel				630334	633332	636332	
Frequency (MHz)				3453.01	3499.98	3544.98	
10	QPSK	1	1	21.70	21.60	21.60	23.0 0.0

Part27Q n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				633332	633332		
Frequency (MHz)				2493.98			
100	PQ2 BPSK	1	1	23.79			
100	PQ2 BPSK	1	137	23.73		25.0	0.0
100	PQ2 BPSK	1	271	23.79			
100	PQ2 BPSK	135	0	23.17		24.5	0.5
100	PQ2 BPSK	135	69	23.73		25.0	0.0
100	PQ2 BPSK	135	138	23.19		24.5	0.5
100	PQ2 BPSK	270	0	23.06			
100	QPSK	1	1	23.79			
100	QPSK	1	137	23.70		25.0	0.0
100	QPSK	1	271	23.45			
100	QPSK	135	0	22.63			
100	QPSK	135	69	23.66		25.0	0.0
100	QPSK	135	138	22.56			
100	QPSK	270	0	22.58		24.0	1.0
100	16QAM	1	1	22.74		24.0	1.0
100	64QAM	1	1	21.26		22.5	2.5
100	256QAM	1	1	19.38		20.5	4.5
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.98	
90	QPSK	1	1	23.65	23.71	23.73	23.0 0.0
Channel				632668	633332	634000	
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	23.65	23.71	23.76	25.0 0.0
Channel				632334	633332	634332	
Frequency (MHz)				3485.01	3499.98	3514.98	
70	QPSK	1	1	23.71	23.66	23.72	25.0 0.0
Channel				632000	633332	634666	
Frequency (MHz)				3480	3499.98	3518.98	
60	QPSK	1	1	23.74	23.70	23.71	25.0 0.0
Channel				631668	633332	635000	
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	23.71	23.72	23.77	25.0 0.0
Channel				631334	633332	635332	
Frequency (MHz)				3470.01	3499.98	3529.98	
40	QPSK	1	1	23.65	23.72	23.72	25.0 0.0
Channel				631000	633332	635666	
Frequency (MHz)				3465	3499.98	3534.98	
30	QPSK	1	1	23.73	23.68	23.78	25.0 0.0
Channel				3460.02	3499.98	3540	
20	QPSK	1	1	23.68	23.68	23.69	25.0 0.0
Channel				630500	633332	636166	
Frequency (MHz)				3457.5	3499.98	3542.98	
15	QPSK	1	1	23.72	23.65	23.76	25.0 0.0
Channel				630334	633332	636332	
Frequency (MHz)				3453.01	3499.98	3544.98	
10	QPSK	1	1	23.65	23.71	23.72	25.0 0.0



Reduced Power Mode for DS12

n2_Ant 0									
BW [MHz]	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	20.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24	20.5	0.0	
20	PI2 BPSK	1	53	19.27	19.40	19.26			
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	5	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19	20.5	0.0	
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16			
20	QPSK	1	104	19.30	19.32	19.20	20.5	0.0	
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	8QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	8QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	20.5	0.0	
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895	20.5	0.0	
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	20.5	0.0	
5	QPSK	1	1	19.21	19.42	19.22	20.5	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	17.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.91	19.96	19.83	17.0	0.0	
20	PI2 BPSK	1	53	19.79	19.86	19.78			
20	PI2 BPSK	1	104	19.68	19.77	19.70			
20	PI2 BPSK	50	5	19.77	19.85	19.70	17.0	0.0	
20	PI2 BPSK	50	28	19.84	19.80	19.72	17.0	0.0	
20	PI2 BPSK	50	56	19.60	19.72	19.64	17.0	0.0	
20	PI2 BPSK	100	0	19.87	19.86	19.74	17.0	0.0	
20	QPSK	1	1	19.94	19.97	19.87			
20	QPSK	1	53	19.86	19.86	19.81			
20	QPSK	1	104	19.75	19.80	19.75	17.0	0.0	
20	QPSK	50	0	19.85	19.86	19.75	17.0	0.0	
20	QPSK	50	28	19.87	19.87	19.77	17.0	0.0	
20	QPSK	50	56	19.65	19.73	19.68	17.0	0.0	
20	QPSK	100	0	19.93	19.93	19.77	17.0	0.0	
20	8QAM	1	1	19.88	19.91	19.78	17.0	0.0	
20	8QAM	1	1	19.79	19.82	19.73	17.0	0.0	
20	256QAM	1	1	19.85	19.76	19.70	17.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	17.0	0.0	
15	QPSK	1	1	19.91	19.96	19.83	17.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895	17.0	0.0	
10	QPSK	1	1	19.85	19.88	19.79	17.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	17.0	0.0	
5	QPSK	1	1	19.86	19.89	19.86	17.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167200	167900	24.0	0.0	
Frequency (MHz)				834	846.5	859			
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.84	22.79			
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.93	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.76	22.73			
20	QPSK	1	104	22.83	22.79	22.72	24.0	0.0	
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.76	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	8QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	8QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166200	167200	167900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	846.5	861.5	24.0	0.0	
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	846.5	864	24.0	0.0	
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				165300	167300	168900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	846.5	866.5	24.0	0.0	
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0	

n5_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (160000)	Power Middle Ch. / Freq. (167300)	Power High Ch. / Freq. (169300)	Tune-up time (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	P12 BPSK	1	1	22.70	22.72	22.63	24.0	0.0			
20	P12 BPSK	1	53	22.67	22.75	22.68					
20	P12 BPSK	1	104	22.70	22.73	22.63					
20	P12 BPSK	50	0	22.60	22.71	22.52	24.0	0.0			
20	P12 BPSK	50	26	22.67	22.75	22.60	24.0	0.0			
20	P12 BPSK	50	56	22.58	22.71	22.58	24.0	0.0			
20	P12 BPSK	100	0	22.58	22.64	22.55	24.0	0.0			
20	P12 BPSK	1	1	22.73	22.76	22.69					
20	QPSK	1	53	22.61	22.66	22.50					
20	QPSK	1	104	22.57	22.68	22.50	24.0	0.0			
20	QPSK	50	0	22.61	22.68	22.52					
20	QPSK	50	26	22.62	22.72	22.57					
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0			
20	QPSK	100	0	22.60	22.64	22.49	24.0	0.0			
20	16QAM	1	1	22.63	22.61	22.65					
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5			
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5			
Channel											
Frequency (MHz)											
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.63	22.72	22.49	24.0	0.0			

n7_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	P12 BPSK	1	1	16.66	16.96	16.95	18.0	0.0			
40	P12 BPSK	1	108	16.65	16.98	16.90					
40	P12 BPSK	1	214	16.66	16.91	16.89					
40	P12 BPSK	108	0	16.72	16.97	16.98	18.0	0.0			
40	P12 BPSK	108	54	16.61	16.92	16.82	18.0	0.0			
40	P12 BPSK	108	108	16.69	16.81	16.79	18.0	0.0			
40	P12 BPSK	216	0	16.71	16.80	16.80					
40	QPSK	1	1	16.75	17.03	16.95					
40	QPSK	1	108	16.71	17.02	16.95	18.0	0.0			
40	QPSK	1	214	16.75	16.98	16.92					
40	QPSK	108	0	16.68	16.99	16.92					
40	QPSK	108	54	16.75	16.99	16.94	18.0	0.0			
40	QPSK	108	108	16.70	16.90	16.84	18.0	0.0			
40	QPSK	216	0	16.72	16.97	16.85	18.0	0.0			
40	16QAM	1	1	16.66	17.01	16.89					
40	64QAM	1	1	16.65	17.00	16.85					
40	256QAM	1	1	16.69	16.96	16.91	18.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	503000	507000	511000	Tune-up time (dBm)	MPR	(dB)		
				2515	2535	2555					
30	QPSK	1	1	16.69	16.93	16.91	18.0	0.0			
Channel											
Frequency (MHz)											
25	QPSK	1	1	502500	507000	511500	Tune-up time (dBm)	MPR	(dB)		
				2512.5	2535	2557.5					
25	QPSK	1	1	16.74	17.01	16.97	18.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	502000	507000	512000	Tune-up time (dBm)	MPR	(dB)		
				2510	2535	2560					
20	QPSK	1	1	16.73	16.94	16.95	18.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	501500	507000	512500	Tune-up time (dBm)	MPR	(dB)		
				2507.5	2535	2562.5					
15	QPSK	1	1	16.68	17.02	16.90	18.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	501000	507000	513000	Tune-up time (dBm)	MPR	(dB)		
				2505	2535	2565					
10	QPSK	1	1	16.71	16.95	16.91	18.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	500500	507000	513500	Tune-up time (dBm)	MPR	(dB)		
				2502.5	2535	2567.5					
5	QPSK	1	1	16.73	16.95	16.89	18.0	0.0			

n7_Ant 9											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	P12 BPSK	1	1	20.99	20.96	20.97	22.0	0.0			
40	P12 BPSK	1	108	20.99	20.92	20.90					
40	P12 BPSK	1	214	20.99	20.95	20.97					
40	P12 BPSK	108	0	20.87	20.96	20.96	22.0	0.0			
40	P12 BPSK	108	54	20.88	20.98	20.96	22.0	0.0			
40	P12 BPSK	108	108	20.92	20.92	21.01	22.0	0.0			
40	P12 BPSK	216	0	20.90	21.02	20.98					
40	QPSK	1	1	21.00	21.07	21.03					
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0			
40	QPSK	1	214	20.97	20.97	21.01					
40	QPSK	108	0	20.89	20.98	20.99					
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0			
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0			
40	QPSK	216	0	20.91	21.02	20.92	22.0	0.0			
40	16QAM	1	1	20.91	20.94	20.91					
40	64QAM	1	1	20.87	20.93	20.90					
40	256QAM	1	1	20.36	20.46	20.43	21.0	1.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	502000	507000	511000	Tune-up time (dBm)	MPR	(dB)		
				2515	2535	2555					
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0			
Channel											
Frequency (MHz)											
25	QPSK	1	1	502000	507000	511900	Tune-up time (dBm)	MPR	(dB)		
				2512.5	2535	2557.5					
25	QPSK	1	1	20.96	21.00	20.93	22.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	502000	507000	512000	Tune-up time (dBm)	MPR	(dB)		
				2510	2535	2560					
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	501500	507000	512000	Tune-up time (dBm)	MPR	(dB)		
				2507.5	2535	2562.5					
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	501000	507000	513000	Tune-up time (dBm)	MPR	(dB)		
				2505	2535	2565					
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	500500	507000	513500	Tune-up time (dBm)	MPR	(dB)		
				2502.5	2535	2567.5					
				20.93	20.96	20.99	22.0	0.0			

n12_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87			
15	P12 BPSK	1	40	22.87	22.83	22.77	24.0	0.0	
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71			
15	QPSK	1	1	22.85	22.92	22.82			
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70			
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0	
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.75	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76			
15	16QAM	1	1	22.76	22.83	22.76	24.0	0.0	
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	23.31	23.36	23.34			
15	P12 BPSK	1	40	23.23	23.31	23.23	24.0		0.0
15	P12 BPSK	1	77	23.26	23.33	23.31			
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0		0.0
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0		0.0
15	P12 BPSK	36	43	23.11	23.24	23.17			
15	P12 BPSK	75	0	23.21	23.30	23.17	24.0		0.0
15	QPSK	1	1	23.27	23.37	23.30			
15	QPSK	1	40	23.16	23.22	23.19	24.0		0.0
15	QPSK	1	77	23.11	23.27	23.18			
15	QPSK	36	0	23.13	23.21	23.22	24.0		0.0
15	QPSK	36	22	23.21	23.26	23.24	24.0		0.0
15	QPSK	36	43	23.16	23.23	23.20	24.0		0.0
15	QPSK	75	0	23.12	23.29	23.23			
15	16QAM	1	1	23.16	23.32	23.15	24.0		0.0
15	64QAM	1	1	22.13	22.19	22.17	22.5		1.5
15	256QAM	1	1	20.02	20.10	20.09	20.5		3.5
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.18	23.32	23.23	24.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.20	23.26	23.23	24.0		0.0

n14_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbs)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1		22.92				
10	P12 BPSK	1	26		22.91		24.0	0.0	
10	P12 BPSK	1	50		22.89				
10	P12 BPSK	25	0		22.92		24.0	0.0	
10	P12 BPSK	25	14		22.91		24.0	0.0	
10	P12 BPSK	25	27		22.92				
10	P12 BPSK	50	0		22.89				
10	QPSK	1	1		22.93			24.0	0.0
10	QPSK	1	26		22.94				
10	QPSK	1	50		22.89				
10	QPSK	25	0		22.93		24.0	0.0	
10	QPSK	25	14		22.95		24.0	0.0	
10	QPSK	25	27		22.90		24.0	0.0	
10	QPSK	50	0		22.84				
10	16QAM	1	1		22.89		24.0	0.0	
10	64QAM	1	1		22.22		23.0	1.0	
10	256QAM	1	1		20.05		21.0	3.0	
Channel									
Frequency (MHz)					156.100	156.100	156.100	156.100	
				790.5	793	795.5			
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	



n14_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbs)	MPR (dB)	
Channel				793					
Frequency (MHz)									
10	P12 BPSK	1	1		21.50			23.0	0.0
10	P12 BPSK	1	26		21.63				
10	P12 BPSK	1	50		21.53				
10	P12 BPSK	25	0		21.53		23.0	0.0	
10	P12 BPSK	25	14		21.51		23.0	0.0	
10	P12 BPSK	25	27		21.50			23.0	0.0
10	P12 BPSK	50	0		21.63				
10	P12 BPSK	50	0		21.63				
10	QPSK	1	1		21.65			23.0	0.0
10	QPSK	1	26		21.62				
10	QPSK	1	50		21.56				
10	QPSK	25	0		21.55		23.0	0.0	
10	QPSK	25	14		21.63		23.0	0.0	
10	QPSK	25	27		21.56		23.0	0.0	
10	QPSK	50	0		21.57		23.0	0.0	
10	64QAM	1	1		21.60		23.0	0.0	
10	64QAM	1	1		21.61		23.0	0.0	
10	256QAM	1	1		19.89		21.0	2.0	
Channel				158180	158690	159100	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				793.5	793	793.5			
5	QPSK	1	1	21.60	21.57	21.64	23.0	0.0	

n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbs)	MPR (dB)	
Channel				374000	376000	378000			
Frequency (MHz)				1919	1922.5	1926			
40	P12 BPSK	1	1	19.27	19.28	19.23		20.5	0.0
40	P12 BPSK	1	108	19.28	19.29	19.21			
40	P12 BPSK	1	214	19.29	19.25	19.28			
40	P12 BPSK	108	0	19.20	19.23	19.30	20.5	0.0	
40	P12 BPSK	108	54	19.27	19.34	19.28	20.5	0.0	
40	P12 BPSK	108	108	19.28	19.32	19.21		20.5	0.0
40	P12 BPSK	216	0	19.20	19.24	19.27			
40	QPSK	1	1	19.31	19.45	19.33			
40	QPSK	1	108	19.16	19.29	19.24	20.5	0.0	
40	QPSK	1	214	19.24	19.32	19.31		20.5	0.0
40	QPSK	108	0	19.26	19.34	19.29	20.5		
40	QPSK	108	54	19.28	19.35	19.30	20.5		
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0	
40	QPSK	216	0	19.17	19.33	19.20		20.5	0.0
40	16QAM	1	1	19.23	19.23	19.28	20.5		
40	16QAM	1	1	19.17	19.37	19.25	20.5		
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0	
Channel				373590	376000	379500	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5			
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0	
Channel				373090	376000	380000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5			
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0	
Channel				372590	376000	380000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5			
25	QPSK	1	1	19.21	19.23	19.25	20.5	0.0	
Channel				372090	376000	381000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1860	1862.5	1865			
20	QPSK	1	1	19.16	19.37	19.29	20.5	0.0	
Channel				371500	376000	381000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1857.5	1862.5	1867.5			
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0	
Channel				371000	376000	382000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1855	1862.5	1865			
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0	
Channel				370500	376000	382000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1852.5	1862.5	1862.5			
5	QPSK	1	1	19.19	19.25	19.24	20.5	0.0	

n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbs)	MPR (dB)	
Channel				374200	376000	378000			
Frequency (MHz)				1936	1922.5	1926			
40	P12 BPSK	1	1	15.49	15.58	15.50		17.0	0.0
40	P12 BPSK	1	108	15.46	15.56	15.48			
40	P12 BPSK	1	214	15.42	15.53	15.44			
40	P12 BPSK	108	0	15.41	15.50	15.49	17.0	0.0	
40	P12 BPSK	108	54	15.42	15.44	15.47	17.0	0.0	
40	P12 BPSK	108	108	15.41	15.42	15.45		17.0	0.0
40	P12 BPSK	216	0	15.47	15.50	15.50			
40	QPSK	1	1	15.53	15.60	15.52			
40	QPSK	1	108	15.46	15.57	15.48	17.0	0.0	
40	QPSK	1	214	15.52	15.54	15.46		17.0	0.0
40	QPSK	108	0	15.49	15.55	15.44			
40	QPSK	108	54	15.50	15.57	15.47	17.0		
40	QPSK	108	108	15.46	15.44	15.43	17.0	0.0	
40	QPSK	216	0	15.48	15.54	15.42		17.0	0.0
40	16QAM	1	1	15.45	15.57	15.50			
40	16QAM	1	1	15.44	15.50	15.47	17.0		
40	256QAM	1	1	15.42	15.52	15.45	17.0	0.0	
Channel				373590	376000	379500	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5			
35	QPSK	1	1	15.43	15.59	15.44	17.0	0.0	
Channel				373090	376000	380000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5			
30	QPSK	1	1	15.48	15.57	15.49	17.0	0.0	
Channel				372590	376000	380000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1862.5			
25	QPSK	1	1	15.50	15.54	15.47	17.0	0.0	
Channel				372090	376000	381000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1860	1862.5	1865			
20	QPSK	1	1	15.44	15.57	15.51	17.0	0.0	
Channel				371500	376000	381000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1857.5	1862.5	1867.5			
15	QPSK	1	1	15.49	15.57	15.48	17.0	0.0	
Channel				371000	376000	382000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1855	1862.5	1865			
10	QPSK	1	1	15.51	15.50	15.44	17.0	0.0	
Channel				370500	376000	382000	Tune-up time (dbs)	MPR (dB)	
Frequency (MHz)				1852.5	1862.5	1862.5			
5	QPSK	1	1	15.45	15.53	15.48	17.0	0.0	

n26_Ant 0									
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				164400	166300	167600	24.0	0.0	
Frequency (MHz)				821.5	831.5	841.5			
20	P12 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.83	22.87			
20	P12 BPSK	1	104	22.85	22.79	22.88	24.0	0.0	
20	P12 BPSK	50	0	22.85	22.85	22.85			
20	P12 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	P12 BPSK	50	56	22.87	22.86	22.86			
20	P12 BPSK	100	0	22.89	22.89	22.91	24.0	0.0	
20	QPSK	1	1	22.95	22.95	22.92			
20	QPSK	1	53	22.96	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88			
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83			
20	16QAM	1	1	22.86	22.85	22.85	24.0	1.0	
20	64QAM	1	1	22.17	22.22	22.23			
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164300	166300	167800			
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)		
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163300	166300	168800			
Frequency (MHz)				819	831.5	844	Tune-up limit (dBm)		
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163300	166300	168800			
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)		
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0	
Channel				163300	166300	168800			

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MRR (db)	
Channel				164300	166300	167800	24.0	0.0	
Frequency (MHz)				821.5	831.5	839			
20	P12 BPSK	1	1	22.88	22.88	22.87	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.78	22.80			
20	P12 BPSK	1	104	22.90	22.78	22.81	24.0	0.0	
20	P12 BPSK	50	0	22.89	22.87	22.85			
20	P12 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	P12 BPSK	50	56	22.85	22.80	22.81			
20	P12 BPSK	100	0	22.90	22.92	22.85	24.0	0.0	
20	QPSK	1	1	22.95	22.97	22.90			
20	QPSK	1	53	22.95	22.92	22.92	24.0	0.0	
20	QPSK	1	104	22.94	22.87	22.83			
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95			
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86			
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	64QAM	1	1	21.56	21.56	21.63		23.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164300	166300	167800			
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dbm)		
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				163300	166300	168800			
Frequency (MHz)				819	831.5	844	Tune-up limit (dbm)		
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel				163300	166300	168800			
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dbm)		
5	QPSK	1	1	22.85	22.87	22.80	24.0	0.0	
Channel				163300	166300	168800			



n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				460060		460060	19.5	0.0
Frequency (MHz)				2310		2310		
10	P12 BPSK	1	1		17.51		19.5	0.0
10	P12 BPSK	1	26		17.58			
10	P12 BPSK	1	50		17.40			
10	P12 BPSK	25	0		17.50		19.5	0.0
10	P12 BPSK	25	14		17.47		19.5	0.0
10	P12 BPSK	25	27		17.44		19.5	0.0
10	P12 BPSK	50	0		17.40			
10	QPSK	1	1		17.60		19.5	0.0
10	QPSK	1	26		17.59			
10	QPSK	1	50		17.48			
10	QPSK	25	0		17.55		19.5	0.0
10	QPSK	25	14		17.57		19.5	0.0
10	QPSK	25	27		17.45		19.5	0.0
10	QPSK	50	0		17.55			
10	16QAM	1	1		17.55		19.5	0.0
10	64QAM	1	1		17.51		19.5	0.0
10	256QAM	1	1		17.45		19.5	0.0
Channel				461060	460060	462060	Tune-up limit	MFR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	17.57	17.53	17.52	19.5	0.0

n30_Ant 9								
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				460060		460060	24.0	0.0
Frequency (MHz)				2310		2310		
10	P12 BPSK	1	1		23.02		24.0	0.0
10	P12 BPSK	1	26		23.00			
10	P12 BPSK	1	50		22.99			
10	P12 BPSK	25	0		22.96		24.0	0.0
10	P12 BPSK	25	14		23.01		24.0	0.0
10	P12 BPSK	25	27		22.97			
10	P12 BPSK	50	0		22.97		24.0	0.0
10	QPSK	1	1		23.03		24.0	0.0
10	QPSK	1	26		22.97			
10	QPSK	1	50		22.94			
10	QPSK	25	0		22.97		24.0	0.0
10	QPSK	25	14		22.98		24.0	0.0
10	QPSK	25	27		22.92			
10	QPSK	50	0		22.93		24.0	0.0
10	16QAM	1	1		22.91		24.0	0.0
10	64QAM	1	1		22.44		23.0	1.0
10	256QAM	1	1		20.25		21.0	3.0
Channel				461060	460060	462060	Tune-up limit	MFR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	22.97	22.99	22.98	24.0	0.0



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.95	19.98	19.95			
40	P12 BPSK	1	108	19.89	19.97	19.88	21.0		0.0
40	P12 BPSK	1	214	19.90	19.90	19.88			
40	P12 BPSK	108	0	19.86	19.99	19.94	21.0		0.0
40	P12 BPSK	108	54	19.88	20.00	19.98	21.0		0.0
40	P12 BPSK	108	108	19.87	20.03	19.88	21.0		0.0
40	P12 BPSK	216	0	19.91	19.95	19.89	21.0		0.0
40	QPSK	1	1	20.00	20.05	20.02			
40	QPSK	1	108	19.85	20.02	19.89	21.0		0.0
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.98	19.88	21.0		0.0
40	QPSK	108	54	19.95	20.00	19.95	21.0		0.0
40	QPSK	108	108	19.91	19.97	19.93	21.0		0.0
40	QPSK	216	0	19.92	20.02	19.87			
40	16QAM	1	1	19.97	20.03	20.00	21.0		0.0
40	64QAM	1	1	19.92	20.00	20.00	21.0		0.0
40	256QAM	1	1	19.86	20.01	19.89	21.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.85	19.95	20.01	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.93	19.97	19.87	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	20.03	19.89	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.99	19.87	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.85	21.0		0.0

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	16.26	16.39	16.32			
40	P12 BPSK	1	108	16.18	16.22	16.12	17.0		0.0
40	P12 BPSK	1	214	16.17	16.36	16.22			
40	P12 BPSK	108	0	16.21	16.36	16.25	17.0		0.0
40	P12 BPSK	108	54	16.21	16.29	16.30	17.0		0.0
40	P12 BPSK	108	108	16.21	16.30	16.14			
40	P12 BPSK	216	0	16.20	16.32	16.20	17.0		0.0
40	QPSK	1	1	16.35	16.42	16.35			
40	QPSK	1	108	16.23	16.29	16.18	17.0		0.0
40	QPSK	1	214	16.25	16.36	16.32			
40	QPSK	108	0	16.23	16.37	16.22	17.0		0.0
40	QPSK	108	54	16.25	16.39	16.35	17.0		0.0
40	QPSK	108	108	16.24	16.36	16.22	17.0		0.0
40	QPSK	216	0	16.22	16.37	16.28			
40	16QAM	1	1	16.25	16.32	16.33	17.0		0.0
40	64QAM	1	1	16.27	16.28	16.30	17.0		0.0
40	256QAM	1	1	16.24	16.31	16.32	17.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.31	16.32	16.27	17.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.30	16.41	16.35	17.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.20	16.33	16.30	17.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.25	16.36	16.29	17.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.30	16.35	16.27	17.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.25	16.34	16.29	17.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.28	16.35	16.31	17.0		0.0

n70_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					1702.5				
15	P12 BPSK	1	1		20.68				
15	P12 BPSK	1	40		20.78		22.0		0.0
15	P12 BPSK	1	77		20.72				
15	P12 BPSK	36	0		20.75		22.0		0.0
15	P12 BPSK	36	22		20.73		22.0		0.0
15	P12 BPSK	36	43		20.67		22.0		0.0
15	P12 BPSK	75	0		20.69				
15	QPSK	1	1		20.82				
15	QPSK	1	40		20.73		22.0		0.0
15	QPSK	1	77		20.73				
15	QPSK	36	0		20.68		22.0		0.0
15	QPSK	36	22		20.70		22.0		0.0
15	QPSK	36	43		20.67		22.0		0.0
15	QPSK	75	0		20.75				
15	16QAM	1	1		20.78		22.0		0.0
15	64QAM	1	1		20.74		22.0		0.0
15	256QAM	1	1		20.35		21.5		0.5
Channel									
Frequency (MHz)					3400.0	3410.0	3410.0	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	1700	1702.5	1705	20.68		0.0
Channel									
Frequency (MHz)					3390.0	3390.0	3410.0	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.70	20.69	20.81	22.0		0.0



n70_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
15	PI2 BPSK	1	1		1702.5		18.0	0.0				
15	PI2 BPSK	1	40		17.37							
15	PI2 BPSK	1	77		17.27		18.0	0.0				
15	PI2 BPSK	36	0		17.31							
15	PI2 BPSK	36	22		17.37		18.0	0.0				
15	PI2 BPSK	36	43		17.21							
15	PI2 BPSK	75	0		17.39		18.0	0.0				
15	QPSK	1	1		17.48							
15	QPSK	1	40		17.45		18.0	0.0				
15	QPSK	1	77		17.34							
15	QPSK	36	0		17.44		18.0	0.0				
15	QPSK	36	22		17.45							
15	QPSK	36	43		17.26		18.0	0.0				
15	QPSK	75	0		17.47							
15	16QAM	1	1		17.44		18.0	0.0				
15	64QAM	1	1		17.39							
15	256QAM	1	1		17.28		18.0	0.0				
Channel												
Frequency (MHz)												
10	QPSK	1	1	17.42	17.45	17.38	18.0	0.0				
Channel												
Frequency (MHz)												
5	QPSK	1	1	17.40	17.41	17.35	18.0	0.0				

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	PI2 BPSK	1	80	23.01	23.04	22.92			
30	PI2 BPSK	1	158	23.00	23.08	23.01	24.0	0.0	
30	PI2 BPSK	80	0	22.96	23.01	22.91			
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92			
30	PI2 BPSK	160	0	22.95	22.99	22.98	24.0	0.0	
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93			
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.98			
30	16QAM	1	1	22.80	22.83	22.83	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41			
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.90	22.99	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	22.82	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				678	660.5	683			
30	PI2 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	PI2 BPSK	1	80	23.15	23.16	23.10			
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.08	23.09	23.11			
30	QPSK	80	40	23.13	23.19	23.17			
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14			
30	64QAM	1	1	21.97	22.03	21.98			
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	17.09	17.18	17.14	19.0	0.0	
40	Pl2 BPSK	1	53	17.12	17.22	17.19			
40	Pl2 BPSK	1	104	17.12	17.11	17.17			
40	Pl2 BPSK	50	0	17.07	17.17	17.20			
40	Pl2 BPSK	50	26	17.01	17.20	17.14	19.0	0.0	
40	Pl2 BPSK	50	56	17.06	17.10	17.09	18.5	0.5	
40	Pl2 BPSK	100	0	17.12	17.15	17.16	19.0	0.0	
40	QPSK	1	1	17.16	17.23	17.22			
40	QPSK	1	53	17.04	17.22	17.11			
40	QPSK	1	104	17.07	17.13	17.08			
40	QPSK	50	0	17.05	17.09	17.12	19.0	0.0	
40	QPSK	50	26	17.12	17.19	17.15			
40	QPSK	50	56	17.10	17.14	17.12			
40	QPSK	100	0	17.11	17.14	17.11			
40	16QAM	1	1	17.04	17.11	17.15	18.0	1.0	
40	16QAM	1	1	17.04	17.13	17.16	18.5	2.5	
40	256QAM	1	1	17.02	17.17	17.08	14.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.13	17.20	17.10	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.03	17.14	17.17	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.07	17.18	17.14	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.06	17.16	17.08	19.0	0.0	

n38_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	21.36	21.45	21.38	22.5	0.0	
40	Pl2 BPSK	1	53	21.33	21.41	21.41			
40	Pl2 BPSK	1	104	21.33	21.42	21.28			
40	Pl2 BPSK	50	0	21.30	21.46	21.38			
40	Pl2 BPSK	50	26	21.30	21.47	21.38	22.5	0.0	
40	Pl2 BPSK	50	56	21.37	21.47	21.32	22.5	0.0	
40	Pl2 BPSK	100	0	21.30	21.35	21.35			
40	QPSK	1	1	21.44	21.48	21.42			
40	QPSK	1	53	21.35	21.46	21.40			
40	QPSK	1	104	21.39	21.42	21.41	22.5	0.0	
40	QPSK	50	0	21.33	21.40	21.32			
40	QPSK	50	26	21.36	21.42	21.34			
40	QPSK	50	56	21.30	21.40	21.28			
40	QPSK	100	0	21.30	21.40	21.38	22.5	0.0	
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0	
40	64QAM	1	1	21.39	21.40	21.29	22.5	0.0	
40	256QAM	1	1	20.91	20.94	20.82	21.5	1.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0	

n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	17.17	17.32	17.14	19.0	0.0	
100	Pl2 BPSK	1	137	17.15	17.30	17.17			
100	Pl2 BPSK	1	271	17.25	17.25	17.18			
100	Pl2 BPSK	135	0	17.18	17.20	17.22			
100	Pl2 BPSK	135	66	17.26	17.25	17.14	19.0	0.0	
100	Pl2 BPSK	135	136	17.18	17.34	17.21	19.0	0.0	
100	Pl2 BPSK	270	0	17.23	17.29	17.22			
100	QPSK	1	1	17.30	17.35	17.28			
100	QPSK	1	137	17.28	17.23	17.17			
100	QPSK	1	271	17.20	17.28	17.15	19.0	0.0	
100	QPSK	135	0	17.19	17.25	17.15			
100	QPSK	135	66	17.26	17.24	17.24			
100	QPSK	135	136	17.27	17.22	17.18			
100	QPSK	270	0	17.15	17.26	17.21	19.0	0.0	
100	16QAM	1	1	17.20	17.32	17.14	19.0	0.0	
100	16QAM	1	1	17.23	17.30	17.25	19.0	0.0	
100	256QAM	1	1	17.24	17.34	17.23	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.25	17.34	17.16	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.22	17.36	17.26	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.23	17.27	17.15	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.19	17.22	17.25	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.29	17.32	17.19	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.23	17.29	17.27	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.29	17.27	17.15	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.16	17.31	17.27	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.22	17.21	17.22	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.20	17.21	17.15	19.0	0.0	

n41_Ant 1_HPUE									
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				509002	518098	526000			
Frequency (MHz)				2545.01	2592.99	2540			
100	PB2 BPSK	1	1	17.17	17.22	17.14			
100	PB2 BPSK	1	137	17.15	17.30	17.17	19.0	0.0	
100	PB2 BPSK	1	271	17.26	17.25	17.18			
100	PB2 BPSK	135	0	17.18	17.20	17.22	19.0	0.0	
100	PB2 BPSK	135	69	17.26	17.25	17.14	19.0	0.0	
100	PB2 BPSK	135	138	17.18	17.34	17.21			
100	PB2 BPSK	270	0	17.23	17.29	17.22	19.0	0.0	
100	QPSK	1	1	17.20	17.25	17.20			
100	QPSK	1	137	17.26	17.25	17.17	19.0	0.0	
100	QPSK	1	271	17.20	17.28	17.15			
100	QPSK	135	0	17.19	17.25	17.15			
100	QPSK	135	69	17.26	17.24	17.22	19.0	0.0	
100	QPSK	135	138	17.27	17.22	17.18			
100	QPSK	270	0	17.15	17.26	17.21	19.0	0.0	
100	16QAM	1	1	17.20	17.32	17.14	19.0	0.0	
100	64QAM	1	1	17.23	17.30	17.25	19.0	0.0	
100	256QAM	1	1	17.24	17.34	17.23	19.0	0.0	
Channel				506000	518098	526096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	17.23	17.34	17.43	19.0	0.0	
Channel				507004	518098	526098	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2548.98	(dBm)	(dB)	
80	QPSK	1	1	17.22	17.34	17.26	19.0	0.0	
Channel				505002	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2585	(dBm)	(dB)	
70	QPSK	1	1	17.23	17.27	17.15	19.0	0.0	
Channel				502000	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2504	2592.99	2594.98	(dBm)	(dB)	
60	QPSK	1	1	17.19	17.22	17.25	19.0	0.0	
Channel				504004	518098	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2584.99	(dBm)	(dB)	
50	QPSK	1	1	17.20	17.32	17.19	19.0	0.0	
Channel				503002	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)	
40	QPSK	1	1	17.23	17.29	17.27	19.0	0.0	
Channel				502000	518098	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	17.20	17.27	17.15	19.0	0.0	
Channel				501004	518098	535996	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	17.16	17.31	17.27	19.0	0.0	
Channel				500700	518098	536498	Tune-up limit	MPR	
Frequency (MHz)				2503.15	2592.99	2582.48	(dBm)	(dB)	
15	QPSK	1	1	17.22	17.21	17.22	19.0	0.0	
Channel				500002	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2585	(dBm)	(dB)	
10	QPSK	1	1	17.20	17.21	17.15	19.0	0.0	



n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2544.01	2592.99	2540			
100	PQ2 BPSK	1	1	20.31	20.44	20.29	22.0		
100	PQ2 BPSK	1	137	20.11	20.27	20.06			
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21	22.0	0.0	
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34	22.0		
100	QPSK	1	137	20.24	20.27	20.32			
100	QPSK	1	271	20.09	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13	22.0	0.0	
100	QPSK	135	69	20.05	20.38	20.24			
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	526068	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2549.99	(dBm)	(dB)	
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				505202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2555	(dBm)	(dB)	
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				505200	518598	531096	Tune-up limit	MPR	
Frequency (MHz)				2529	2592.99	2559.98	(dBm)	(dB)	
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532068	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2564.99	(dBm)	(dB)	
50	QPSK	1	1	20.21	20.25	20.19	22.0	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)	
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0	
Channel				502205	518598	535006	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				501204	518598	536006	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2582.48	(dBm)	(dB)	
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2585	(dBm)	(dB)	
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 506002	Power Middle Ch. / Freq 518598	Power High Ch. / Freq 526000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2596.99	2640			
Frequency (MHz)									
100	PQ2 BPSK	1	1	21.86	21.94	22.01	23.5	0.0	
100	PQ2 BPSK	1	137	21.92	22.02	21.91			
100	PQ2 BPSK	1	271	21.96	21.92	21.91			
100	PQ2 BPSK	135	0	21.97	22.00	21.95	23.5	0.0	
100	PQ2 BPSK	135	69	21.91	21.97	21.93	23.5	0.0	
100	PQ2 BPSK	135	138	21.89	22.00	22.00	23.5	0.0	
100	PQ2 BPSK	270	0	21.96	22.04	21.91	23.5	0.0	
100	QPSK	1	1	22.00	22.05	22.02	23.5		
100	QPSK	1	137	21.97	22.04	21.99			
100	QPSK	1	271	21.90	22.01	21.88			
100	QPSK	135	0	21.96	21.96	21.97	23.5	0.0	
100	QPSK	135	69	21.95	22.03	21.98			
100	QPSK	135	138	21.89	22.02	21.97			
100	QPSK	270	0	21.91	21.95	21.29	23.0	0.5	
100	16QAM	1	1	21.68	21.83	21.68	23.0	0.5	
100	64QAM	1	1	20.31	20.32	20.29	21.5	2.0	
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.0	
Channel				506000	518598	526006	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	21.91	22.00	21.61	23.5	0.0	
Channel				507204	518598	526068	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2549.99	(dBm)	(dB)	
80	QPSK	1	1	21.85	21.90	21.87	23.5	0.0	
Channel				505202	518598	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2555	(dBm)	(dB)	
70	QPSK	1	1	21.97	21.96	21.94	23.5	0.0	
Channel				505200	518598	531096	Tune-up limit	MPR	
Frequency (MHz)				2529	2592.99	2559.98	(dBm)	(dB)	
60	QPSK	1	1	21.99	21.92	21.94	23.5	0.0	
Channel				504204	518598	532068	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2564.99	(dBm)	(dB)	
50	QPSK	1	1	21.93	22.00	21.92	23.5	0.0	
Channel				503202	518598	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)	
40	QPSK	1	1	21.97	22.04	21.88	23.5	0.0	
Channel				502205	518598	535006	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	21.93	21.99	21.89	23.5	0.0	
Channel				501204	518598	536006	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	21.96	22.04	21.96	23.5	0.0	
Channel				500700	518598	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.5	2592.99	2582.48	(dBm)	(dB)	
15	QPSK	1	1	21.96	21.90	21.90	23.5	0.0	
Channel				500202	518598	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2585	(dBm)	(dB)	
10	QPSK	1	1	21.90	21.90	21.90	23.5	0.0	



n41_Ant 5									
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				506000	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.18	21.23	21.19			
100	PQ2 BPSK	1	137	21.20	21.21	21.16	22.5	0.0	
100	PQ2 BPSK	1	271	21.19	21.15	21.24			
100	PQ2 BPSK	135	0	21.14	21.19	21.12	22.5	0.0	
100	PQ2 BPSK	135	69	21.13	21.20	21.17	22.5	0.0	
100	PQ2 BPSK	135	138	21.18	21.22	21.12			
100	PQ2 BPSK	270	0	21.20	21.15	21.15	22.5	0.0	
100	QPSK	1	1	21.22	21.30	21.25			
100	QPSK	1	137	21.13	21.15	21.18	22.5	0.0	
100	QPSK	1	271	21.05	21.20	21.21			
100	QPSK	135	0	21.21	21.24	21.13			
100	QPSK	135	69	21.18	21.26	21.24	22.5	0.0	
100	QPSK	135	138	21.18	21.12	21.18			
100	QPSK	270	0	21.11	21.22	21.20	22.5	0.0	
100	16QAM	1	1	21.13	21.26	21.14	22.5	0.0	
100	64QAM	1	1	21.18	21.29	21.22	22.5	0.0	
100	256QAM	1	1	18.68	18.79	18.73	20.5	2.0	
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.19	21.23	21.17	22.5	0.0	
Channel				507204	518598	526968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.19	21.18	21.23	22.5	0.0	
Channel				505502	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.07	21.29	21.23	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	21.21	21.25	21.23	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.10	21.15	21.15	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.12	21.21	21.21	22.5	0.0	
Channel				502500	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.20	21.28	21.23	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.21	21.15	21.13	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.11	21.20	21.15	22.5	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.13	21.24	21.17	22.5	0.0	

n41_Ant 5_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.18	21.23	21.19			
100	PQ2 BPSK	1	137	21.20	21.21	21.16	22.5	0.0	
100	PQ2 BPSK	1	271	21.19	21.15	21.24			
100	PQ2 BPSK	135	0	21.14	21.19	21.12	22.5	0.0	
100	PQ2 BPSK	135	69	21.13	21.20	21.17	22.5	0.0	
100	PQ2 BPSK	135	138	21.18	21.22	21.12			
100	PQ2 BPSK	270	0	21.20	21.15	21.15	22.5	0.0	
100	QPSK	1	1	21.22	21.30	21.25			
100	QPSK	1	137	21.13	21.15	21.18	22.5	0.0	
100	QPSK	1	271	21.05	21.20	21.21			
100	QPSK	135	0	21.21	21.24	21.13			
100	QPSK	135	69	21.18	21.26	21.24	22.5	0.0	
100	QPSK	135	138	21.18	21.12	21.18			
100	QPSK	270	0	21.11	21.22	21.20	22.5	0.0	
100	16QAM	1	1	21.13	21.26	21.14	22.5	0.0	
100	64QAM	1	1	21.18	21.29	21.22	22.5	0.0	
100	256QAM	1	1	18.68	18.79	18.73	21.5	1.0	
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.19	21.23	21.17	22.5	0.0	
Channel				507204	518598	526968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.19	21.18	21.23	22.5	0.0	
Channel				505502	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.07	21.29	21.23	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	21.21	21.25	21.23	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.10	21.15	21.15	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.12	21.21	21.21	22.5	0.0	
Channel				502500	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.20	21.28	21.23	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.21	21.15	21.13	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.11	21.20	21.15	22.5	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.13	21.24	21.17	22.5	0.0	

n41_Ant 6								
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				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MPR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0
Channel				502200	518098	535000	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536496	Tune-up limit	MPR
Frequency (MHz)				2603.5	2592.99	2683.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506002	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518698	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.61	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518698	536006	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518698	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518698	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518698	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518698	536000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518698	535596	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518698	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	



n41_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dbm)	MPR (dB)	
Channel				506000	518598	526000			
Frequency (MHz)				2543.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.53	21.53	21.45			
100	PQ2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PQ2 BPSK	1	271	21.52	21.53	21.41			
100	PQ2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PQ2 BPSK	135	69	21.43	21.45	21.43	22.5	0.0	
100	PQ2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PQ2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.53	21.53	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.43	21.56	21.44	22.5	0.0	
100	QPSK	135	138	21.45	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				507502	518598	531000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.51	21.45	21.45	22.5	0.0	

n41_Ant 9_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dbm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2543.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.53	21.53	21.45			
100	PQ2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PQ2 BPSK	1	271	21.52	21.53	21.41			
100	PQ2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PQ2 BPSK	135	69	21.43	21.45	21.43	22.5	0.0	
100	PQ2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PQ2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.53	21.53	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.43	21.56	21.44	22.5	0.0	
100	QPSK	135	138	21.45	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				507502	518598	531000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.51	21.45	21.45	22.5	0.0	



n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				6370	6424.99	6479.98			
40	PI2 BPSK	1	1	20.81	20.87	20.89		22.0	0.0
40	PI2 BPSK	1	53	20.82	20.95	20.86			
40	PI2 BPSK	1	104	20.92	20.90	20.89			
40	PI2 BPSK	50	0	20.82	20.99	20.95			
40	PI2 BPSK	50	24	20.84	20.95	20.87		22.0	0.0
40	PI2 BPSK	50	56	20.85	20.91	20.82		22.0	0.0
40	PI2 BPSK	100	0	20.90	20.92	20.84			
40	QPSK	1	1	20.85	21.00	20.87			
40	QPSK	1	53	20.82	20.95	20.85			
40	QPSK	1	104	20.85	20.87	20.95		22.0	0.0
40	QPSK	50	0	20.86	20.90	20.84			
40	QPSK	50	24	20.85	20.92	20.89			
40	QPSK	50	56	20.85	20.91	20.82			
40	QPSK	100	0	20.84	20.90	20.82		22.0	0.0
40	16QAM	1	1	20.92	20.88	20.88		22.0	0.0
40	64QAM	1	1	20.92	20.99	20.87		22.0	0.0
40	256QAM	1	1	20.92	20.81	20.91		21.0	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3060.02	3024.99	3084.99			
30	QPSK	1	1	20.84	20.89	20.85		22.0	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3660			
20	QPSK	1	1	20.81	20.98	20.87		22.0	0.0
Channel				637000	641700	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3664.98			
10	QPSK	1	1	20.82	20.94	20.87		22.0	0.0

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				6370	6424.99	6479.98			
40	PI2 BPSK	1	1	15.14	15.19	15.14		16.5	0.0
40	PI2 BPSK	1	53	15.18	15.15	15.04			
40	PI2 BPSK	1	104	15.19	15.17	15.10			
40	PI2 BPSK	50	0	15.09	15.08	15.16			
40	PI2 BPSK	50	24	15.16	15.10	15.08		16.5	0.0
40	PI2 BPSK	50	56	15.06	15.10	15.04		16.5	0.0
40	PI2 BPSK	100	0	15.13	15.10	15.02			
40	QPSK	1	1	15.20	15.23	15.17			
40	QPSK	1	53	15.14	15.10	15.07			
40	QPSK	1	104	15.19	15.09	15.13		16.5	0.0
40	QPSK	50	0	15.08	15.15	15.06			
40	QPSK	50	24	15.16	15.20	15.17			
40	QPSK	50	56	15.06	15.13	15.11			
40	QPSK	100	0	15.08	15.17	15.07		16.5	0.0
40	16QAM	1	1	15.18	15.12	15.09		16.5	0.0
40	64QAM	1	1	15.11	15.12	15.15		16.5	0.0
40	256QAM	1	1	15.14	15.17	15.11		16.5	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3060.02	3024.99	3084.99			
30	QPSK	1	1	15.14	15.09	15.02		16.5	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3660			
20	QPSK	1	1	15.11	15.17	15.13		16.5	0.0
Channel				637000	641700	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3664.98			
10	QPSK	1	1	15.06	15.09	15.03		16.5	0.0

n48_FCC_Part96_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3600	3624.99	3694.98			
40	Pl2 BPSK	1	1	17.49	17.59	17.42	18.5	0.0	
40	Pl2 BPSK	1	53	17.52	17.49	17.41			
40	Pl2 BPSK	1	104	17.42	17.49	17.46			
40	Pl2 BPSK	50	0	17.43	17.52	17.47	18.5	0.0	
40	Pl2 BPSK	50	26	17.48	17.56	17.46	18.5	0.0	
40	Pl2 BPSK	50	56	17.41	17.57	17.41	18.5	0.0	
40	Pl2 BPSK	100	0	17.52	17.49	17.46	18.5	0.0	
40	QPSK	1	1	17.51	17.60	17.50			
40	QPSK	1	53	17.46	17.58	17.51			
40	QPSK	1	104	17.44	17.52	17.53	18.5	0.0	
40	QPSK	50	0	17.45	17.54	17.43			
40	QPSK	50	26	17.49	17.59	17.41			
40	QPSK	50	56	17.46	17.45	17.44	18.5	0.0	
40	QPSK	100	0	17.38	17.54	17.43	18.5	0.0	
40	16QAM	1	1	17.49	17.56	17.46	18.5	0.0	
40	16QAM	1	1	17.50	17.48	17.40	18.5	0.0	
40	256QAM	1	1	16.96	16.97	16.72	19.0	0.5	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3655.02	3624.99	3694.99	(dBm)	(dB)	
30	QPSK	1	1	17.59	17.51	17.50	18.5	0.0	
Channel				637334	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	17.48	17.51	17.52	18.5	0.0	
Channel				637000	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	17.49	17.58	17.46	18.5	0.0	

n48_FCC_Part96_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3600	3624.99	3694.98			
40	Pl2 BPSK	1	1	21.86	22.05	21.99	23.0	0.0	
40	Pl2 BPSK	1	53	21.89	21.96	21.88			
40	Pl2 BPSK	1	104	21.86	22.05	21.82			
40	Pl2 BPSK	50	0	21.98	21.95	21.82	23.0	0.0	
40	Pl2 BPSK	50	26	21.93	22.03	21.92	23.0	0.0	
40	Pl2 BPSK	50	56	21.88	22.02	21.88	23.0	0.0	
40	Pl2 BPSK	100	0	21.88	21.98	21.83	23.0	0.0	
40	QPSK	1	1	22.01	22.07	21.96			
40	QPSK	1	53	22.00	22.06	21.94			
40	QPSK	1	104	22.00	22.04	21.88	23.0	0.0	
40	QPSK	50	0	21.92	22.00	21.82			
40	QPSK	50	26	21.95	22.04	21.94			
40	QPSK	50	56	21.87	21.75	21.69	23.0	0.0	
40	QPSK	100	0	21.53	21.68	21.56	23.0	0.0	
40	16QAM	1	1	21.99	22.00	21.96	23.0	0.0	
40	16QAM	1	1	20.42	20.46	20.34	21.5	1.5	
40	256QAM	1	1	18.39	18.45	18.31	18.5	3.5	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3655.02	3624.99	3694.99	(dBm)	(dB)	
30	QPSK	1	1	21.63	21.92	21.85	23.0	0.0	
Channel				637334	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	21.91	21.92	21.90	23.0	0.0	
Channel				637000	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	21.96	21.97	21.92	23.0	0.0	

Par270 n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.19	18.20	18.11	19.0	0.0	
100	Pi2 BPSK	1	137	18.08	18.19	18.22			
100	Pi2 BPSK	1	271	18.17	18.20	18.12			
100	Pi2 BPSK	136	0	18.14	18.27	18.16			
100	Pi2 BPSK	136	69	18.15	18.18	18.09	19.0	0.0	
100	Pi2 BPSK	136	138	18.08	18.13	18.18	19.0	0.0	
100	Pi2 BPSK	270	0	18.09	18.22	18.17			
100	QPSK	1	1	18.20	18.28	18.24	19.0	0.0	
100	QPSK	1	137	18.15	18.27	18.13			
100	QPSK	1	271	18.17	18.13	18.20			
100	QPSK	136	0	18.13	18.24	18.21			
100	QPSK	136	69	18.16	18.26	18.24	19.0	0.0	
100	QPSK	136	138	18.09	18.17	18.16			
100	QPSK	270	0	18.05	18.23	18.16	19.0	0.0	
100	16QAM	1	1	18.16	18.13	18.16	19.0	0.0	
100	64QAM	1	1	18.08	18.17	18.15	19.0	0.0	
100	256QAM	1	1	18.08	18.27	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.06	18.24	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.15	18.15	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.05	18.13	18.15	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.19	18.24	18.13	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.13	18.15	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.17	18.25	18.12	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.18	18.20	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.10	18.13	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.08	18.24	18.23	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.18	18.15	18.23	19.0	0.0	

Par270 n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.19	18.20	18.11	19.0	0.0	
100	Pi2 BPSK	1	137	18.08	18.19	18.22			
100	Pi2 BPSK	1	271	18.17	18.20	18.12			
100	Pi2 BPSK	136	0	18.14	18.27	18.16			
100	Pi2 BPSK	136	69	18.15	18.18	18.09	19.0	0.0	
100	Pi2 BPSK	136	138	18.08	18.13	18.18	19.0	0.0	
100	Pi2 BPSK	270	0	18.09	18.22	18.17			
100	QPSK	1	1	18.20	18.28	18.24	19.0	0.0	
100	QPSK	1	137	18.15	18.27	18.13			
100	QPSK	1	271	18.17	18.13	18.20			
100	QPSK	136	0	18.13	18.24	18.21			
100	QPSK	136	69	18.16	18.26	18.24	19.0	0.0	
100	QPSK	136	138	18.09	18.17	18.16			
100	QPSK	270	0	18.05	18.23	18.16	19.0	0.0	
100	16QAM	1	1	18.16	18.13	18.16	19.0	0.0	
100	64QAM	1	1	18.08	18.17	18.15	19.0	0.0	
100	256QAM	1	1	18.08	18.27	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.06	18.24	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.15	18.15	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.05	18.13	18.15	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.19	18.24	18.13	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.13	18.15	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.17	18.25	18.12	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.18	18.20	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.10	18.13	18.17	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.08	18.24	18.23	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.18	18.15	18.23	19.0	0.0	

Par27Q n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.19	18.20	18.11	19.0	0.0	
100	Pi2 BPSK	1	137	18.08	18.19	18.22			
100	Pi2 BPSK	1	271	18.16	18.20	18.12			
100	Pi2 BPSK	136	0	18.14	18.27	18.16			
100	Pi2 BPSK	136	69	18.15	18.18	18.09	19.0	0.0	
100	Pi2 BPSK	136	138	18.08	18.13	18.18	19.0	0.0	
100	Pi2 BPSK	270	0	18.16	18.22	18.17			
100	QPSK	1	1	18.23	18.28	18.24	19.0	0.0	
100	QPSK	1	137	18.09	18.27	18.13			
100	QPSK	1	271	18.10	18.13	18.20			
100	QPSK	136	0	18.09	18.24	18.21			
100	QPSK	136	69	18.21	18.26	18.24	19.0	0.0	
100	QPSK	136	138	18.11	18.17	18.16			
100	QPSK	270	0	18.17	18.23	18.16	19.0	0.0	
100	16QAM	1	1	18.12	18.13	18.16	19.0	0.0	
100	64QAM	1	1	18.14	18.14	18.14	19.0	0.0	
100	256QAM	1	1	18.14	18.27	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.03	18.15	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.12	18.12	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.11	18.22	18.05	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.05	18.12	18.07	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.01	18.16	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.13	18.22	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.02	18.08	18.05	19.0	0.0	

Par27Q n77_Ant 4_HPUE											
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	18.19			19.0	0.0			
100	PQ2 BPSK	1	137	18.09							
100	PQ2 BPSK	1	271	18.16							
100	PQ2 BPSK	135	0	18.19			19.0	0.0			
100	PQ2 BPSK	135	69	18.09			19.0	0.0			
100	PQ2 BPSK	135	138	18.08			19.0	0.0			
100	PQ2 BPSK	270	0	18.16							
100	QPSK	1	1	18.23							
100	QPSK	1	137	18.09			19.0	0.0			
100	QPSK	1	271	18.10							
100	QPSK	135	0	18.09							
100	QPSK	135	69	18.21			19.0	0.0			
100	QPSK	135	138	18.11							
100	QPSK	270	0	18.17			19.0	0.0			
100	16QAM	1	1				19.0	0.0			
100	64QAM	1	1	18.14			19.0	0.0			
100	256QAM	1	1	18.14			19.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	18.03	18.15	18.14	19.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	18.02	18.16	18.16	19.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	18.11	18.22	18.05	19.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	18.05	18.12	18.07	19.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	18.11	18.14	18.16	19.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	18.02	18.10	18.12	19.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	18.12	18.15	18.09	19.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	18.01	18.16	18.14	19.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	18.13	18.22	18.11	19.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	18.02	18.08	18.05	19.0	0.0			

Par270 n77_Ant 7											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PQ2 BPSK	1	1	15.36	15.55	15.37	17.0	0.0			
100	PQ2 BPSK	1	137	15.43	15.49	15.37					
100	PQ2 BPSK	1	271	15.36	15.57	15.43					
100	PQ2 BPSK	135	0	15.44	15.44	15.38	17.0	0.0			
100	PQ2 BPSK	135	69	15.43	15.46	15.43	17.0	0.0			
100	PQ2 BPSK	135	138	15.38	15.46	15.43	17.0	0.0			
100	PQ2 BPSK	270	0	15.35	15.54	15.37					
100	QPSK	1	1	15.29	15.58	15.32		0.0			
100	QPSK	1	137	15.44	15.52	15.44	17.0	0.0			
100	QPSK	1	271	15.40	15.58	15.51					
100	QPSK	135	0	15.40	15.53	15.44		0.0			
100	QPSK	135	69	15.46	15.53	15.44	17.0	0.0			
100	QPSK	135	138	15.37	15.55	15.39					
100	QPSK	270	0	15.42	15.47	15.38	17.0	0.0			
100	16QAM	1	1	15.49	15.47	15.42	17.0	0.0			
100	64QAM	1	1	15.37	15.55	15.46	17.0	0.0			
100	256QAM	1	1	15.43	15.47	15.43	17.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	15.39	15.51	15.47	17.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	15.46	15.52	15.38	17.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	15.37	15.52	15.41	17.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	15.42	15.55	15.38	17.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	15.49	15.43	15.49	17.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	15.37	15.53	15.40	17.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	15.45	15.44	15.49	17.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	15.37	15.55	15.39	17.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	15.40	15.55	15.42	17.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	15.44	15.47	15.41	17.0	0.0			

Par270 n77_Ant 7_HPUE											
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	15.36	15.55	15.37	17.0	0.0			
100	PQ2 BPSK	1	137	15.43	15.49	15.37					
100	PQ2 BPSK	1	271	15.36	15.57	15.43					
100	PQ2 BPSK	135	0	15.44	15.44	15.38	17.0	0.0			
100	PQ2 BPSK	135	69	15.43	15.46	15.43	17.0	0.0			
100	PQ2 BPSK	135	138	15.38	15.46	15.43	17.0	0.0			
100	PQ2 BPSK	270	0	15.35	15.54	15.37					
100	QPSK	1	1	15.35	15.58	15.52		0.0			
100	QPSK	1	137	15.44	15.52	15.44	17.0	0.0			
100	QPSK	1	271	15.40	15.58	15.51					
100	QPSK	135	0	15.40	15.53	15.44		0.0			
100	QPSK	135	69	15.46	15.53	15.44	17.0	0.0			
100	QPSK	135	138	15.37	15.55	15.39					
100	QPSK	270	0	15.42	15.47	15.38	17.0	0.0			
100	16QAM	1	1	15.49	15.47	15.42	17.0	0.0			
100	64QAM	1	1	15.37	15.55	15.46	17.0	0.0			
100	256QAM	1	1	15.43	15.47	15.43	17.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	15.39	15.51	15.47	17.0	0.0			
Channel											
Frequency (MHz)					56933	56900	56965	Tune-up limit (dBm)			
Channel					31610	3160	3099	Tune-up limit (dBm)			
80	QPSK	1	1	15.46	15.52	15.38	17.0	0.0			
Channel											
Frequency (MHz)					3735	3840	3945	Tune-up limit (dBm)			
70	QPSK	1	1	15.37	15.52	15.41	17.0	0.0			
Channel											
Frequency (MHz)					66959	66920	66940	Tune-up limit (dBm)			
Channel					3730	3840	3945	Tune-up limit (dBm)			
60	QPSK	1	1	15.42	15.55	15.38	17.0	0.0			
Channel											
Frequency (MHz)					64334	64300	64366	Tune-up limit (dBm)			
Channel					3730	3840	3945	Tune-up limit (dBm)			
50	QPSK	1	1	15.49	15.43	15.49	17.0	0.0			
Channel											
Frequency (MHz)					66405	66400	66400	Tune-up limit (dBm)			
Channel					3730	3840	3945	Tune-up limit (dBm)			
40	QPSK	1	1	15.37	15.53	15.40	17.0	0.0			
Channel											
Frequency (MHz)					64968	64900	64932	Tune-up limit (dBm)			
Channel					3715	3840	3945	Tune-up limit (dBm)			
30	QPSK	1	1	15.41	15.49	15.49	17.0	0.0			
Channel											
Frequency (MHz)					54738	54600	54695	Tune-up limit (dBm)			
Channel					31610	3160	3099	Tune-up limit (dBm)			
20	QPSK	1	1	15.37	15.55	15.39	17.0	0.0			
Channel											
Frequency (MHz)					64169	64100	64162	Tune-up limit (dBm)			
Channel					3707	3840	3972	Tune-up limit (dBm)			
15	QPSK	1	1	15.40	15.55	15.42	17.0	0.0			
Channel											
Frequency (MHz)					64700	64600	64630	Tune-up limit (dBm)			
Channel					31610	3160	3099	Tune-up limit (dBm)			
10	QPSK	1	1	15.44	15.47	15.41	17.0	0.0			



Par27Q n77_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				633332	633332		
100	PQ2 BPSK	1	1	15.50	3499.98		
100	PQ2 BPSK	1	137	15.34			17.0 0.0
100	PQ2 BPSK	1	271	15.51			
100	PQ2 BPSK	135	0	15.31			17.0 0.0
100	PQ2 BPSK	135	69	15.41			17.0 0.0
100	PQ2 BPSK	135	138	15.42			17.0 0.0
100	PQ2 BPSK	270	0	15.48			17.0 0.0
100	QPSK	1	1	15.52			
100	QPSK	1	137	15.43			17.0 0.0
100	QPSK	1	271	15.45			
100	QPSK	135	0	15.42			
100	QPSK	135	69	15.45			17.0 0.0
100	QPSK	135	138	15.41			
100	QPSK	270	0	15.32			17.0 0.0
100	16QAM	1	1	15.36			17.0 0.0
100	64QAM	1	1	15.49			17.0 0.0
100	256QAM	1	1	15.32			17.0 0.0
Channel							
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm) MPR (dB)
90	QPSK	1	1	15.43	3499.98	3504.99	17.0 0.0
Channel							
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm) MPR (dB)
80	QPSK	1	1	15.39	3499.98	3510	17.0 0.0
Channel							
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm) MPR (dB)
70	QPSK	1	1	15.32	15.51	15.46	17.0 0.0
Channel							
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm) MPR (dB)
60	QPSK	1	1	15.32	15.39	15.40	17.0 0.0
Channel							
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm) MPR (dB)
50	QPSK	1	1	15.35	15.37	15.46	17.0 0.0
Channel							
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm) MPR (dB)
40	QPSK	1	1	15.40	15.41	15.49	17.0 0.0
Channel							
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm) MPR (dB)
30	QPSK	1	1	15.34	15.38	15.46	17.0 0.0
Channel							
Frequency (MHz)				3480.02	3499.98	3504.99	Tune-up limit (dBm) MPR (dB)
20	QPSK	1	1	15.40	15.39	15.46	17.0 0.0
Channel							
Frequency (MHz)				630500	633332	636000	Tune-up limit (dBm) MPR (dB)
15	QPSK	1	1	15.34	15.44	15.48	17.0 0.0
Channel							
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm) MPR (dB)
10	QPSK	1	1	15.44	15.45	15.45	17.0 0.0

Par27Q n77_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				633332	633332		
100	PQ2 BPSK	1	1	15.50	3499.98		
100	PQ2 BPSK	1	137	15.34			17.0 0.0
100	PQ2 BPSK	1	271	15.51			
100	PQ2 BPSK	135	0	15.31			17.0 0.0
100	PQ2 BPSK	135	69	15.41			17.0 0.0
100	PQ2 BPSK	135	138	15.42			17.0 0.0
100	PQ2 BPSK	270	0	15.48			17.0 0.0
100	QPSK	1	1	15.52			
100	QPSK	1	137	15.43			17.0 0.0
100	QPSK	1	271	15.45			
100	QPSK	135	0	15.42			
100	QPSK	135	69	15.45			17.0 0.0
100	QPSK	135	138	15.41			
100	QPSK	270	0	15.32			17.0 0.0
100	16QAM	1	1	15.36			17.0 0.0
100	64QAM	1	1	15.49			17.0 0.0
100	256QAM	1	1	15.32			17.0 0.0
Channel							
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm) MPR (dB)
90	QPSK	1	1	15.43	3499.98	3504.99	17.0 0.0
Channel							
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm) MPR (dB)
80	QPSK	1	1	15.39	3499.98	3510	17.0 0.0
Channel							
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm) MPR (dB)
70	QPSK	1	1	15.32	15.51	15.46	17.0 0.0
Channel							
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm) MPR (dB)
60	QPSK	1	1	15.46	15.39	15.40	17.0 0.0
Channel							
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm) MPR (dB)
50	QPSK	1	1	15.35	15.37	15.46	17.0 0.0
Channel							
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm) MPR (dB)
40	QPSK	1	1	15.40	15.41	15.49	17.0 0.0
Channel							
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm) MPR (dB)
30	QPSK	1	1	15.34	15.38	15.46	17.0 0.0
Channel							
Frequency (MHz)				3480.02	3499.98	3504.99	Tune-up limit (dBm) MPR (dB)
20	QPSK	1	1	15.40	15.39	15.46	17.0 0.0
Channel							
Frequency (MHz)				630500	633332	636000	Tune-up limit (dBm) MPR (dB)
15	QPSK	1	1	15.34	15.44	15.48	17.0 0.0
Channel							
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm) MPR (dB)
10	QPSK	1	1	15.44	15.45	15.45	17.0 0.0

Par27O n77_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				650000	650000	650000	
100	PQ2 BPSK	1	1	15.37	3540	3540	
100	PQ2 BPSK	1	137	15.39	15.51	15.41	17.0 0.0
100	PQ2 BPSK	1	271	15.38	15.46	15.41	
100	PQ2 BPSK	135	0	15.38	15.48	15.54	17.0 0.0
100	PQ2 BPSK	135	69	15.46	15.57	15.49	17.0 0.0
100	PQ2 BPSK	135	138	15.39	15.45	15.46	17.0 0.0
100	PQ2 BPSK	270	0	15.41	15.46	15.53	17.0 0.0
100	QPSK	1	1	15.51	15.50	15.55	
100	QPSK	1	137	15.47	15.59	15.40	17.0 0.0
100	QPSK	1	271	15.39	15.53	15.41	
100	QPSK	135	0	15.39	15.52	15.50	
100	QPSK	135	69	15.49	15.58	15.53	17.0 0.0
100	QPSK	135	138	15.37	15.45	15.46	
100	QPSK	270	0	15.36	15.59	15.44	17.0 0.0
100	16QAM	1	1	15.46	15.56	15.48	17.0 0.0
100	64QAM	1	1	15.49	15.58	15.53	17.0 0.0
100	256QAM	1	1	15.38	15.56	15.41	17.0 0.0
Channel							
Frequency (MHz)				649668	650000	650332	Tune-up limit (dBm) MPR (dB)
90	QPSK	1	1	15.43	3540	3544.98	17.0 0.0
Channel							
Frequency (MHz)				649334	650000	650666	Tune-up limit (dBm) MPR (dB)
80	QPSK	1	1	15.50	3540	3559.99	17.0 0.0
Channel							
Frequency (MHz)				648998	650000	650332	Tune-up limit (dBm) MPR (dB)
70	QPSK	1	1	15.43	15.47	15.48	17.0 0.0
Channel							
Frequency (MHz)				648668	650000	650666	Tune-up limit (dBm) MPR (dB)
60	QPSK	1	1	15.41	15.51	15.51	17.0 0.0
Channel							
Frequency (MHz)				648334	650000	650666	Tune-up limit (dBm) MPR (dB)
50	QPSK	1	1	15.40	15.47	15.42	17.0 0.0
Channel							
Frequency (MHz)				648000	650000	650666	Tune-up limit (dBm) MPR (dB)
40	QPSK	1	1	15.47	15.58	15.42	17.0 0.0
Channel							
Frequency (MHz)				647668	650000	650332	Tune-up limit (dBm) MPR (dB)
30	QPSK	1	1	15.38	15.53	15.48	17.0 0.0
Channel							
Frequency (MHz)				647334	650000	650666	Tune-up limit (dBm) MPR (dB)
20	QPSK	1	1	15.43	15.54	15.40	17.0 0.0
Channel							
Frequency (MHz)				647000	650000	650666	Tune-up limit (dBm) MPR (dB)
15	QPSK	1	1	15.38	15.56	15.44	17.0 0.0
Channel							
Frequency (MHz)				646668	650000	650666	Tune-up limit (dBm) MPR (dB)
10	QPSK	1	1	15.40	15.52	15.42	17.0 0.0

Par270 n77_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1, n77	Power Middle Ch. 1, n77	Power High Ch. 1, n77	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1750	3640	3650		
100	Pi2 BPSK	1	1	16.85	17.08	17.07		
100	Pi2 BPSK	1	137	17.04	17.00	17.07	18.5	0.0
100	Pi2 BPSK	1	241	16.93	17.02	17.04		
100	Pi2 BPSK	135	0	16.97	17.14	17.01		
100	Pi2 BPSK	135	48	17.05	17.14	17.06	18.5	0.0
100	Pi2 BPSK	135	138	17.05	17.09	17.07		
100	Pi2 BPSK	270	0	16.95	17.06	16.99		
100	QPSK	1	1	17.08	17.15	17.01		
100	QPSK	1	137	16.94	17.18	16.96	18.5	0.0
100	QPSK	1	241	16.98	17.03	16.96		
100	QPSK	135	0	17.00	17.05	17.02		
100	QPSK	135	69	16.96	17.14	16.96	18.5	0.0
100	QPSK	135	138	16.94	17.12	17.03		
100	QPSK	270	0	17.05	17.13	16.97		
100	HQAM	1	1	17.07	17.06	17.08		
100	HQAM	1	137	17.01	17.01	17.01	18.5	0.0
100	256QAM	1	1	16.96	17.04	17.03		
Channel								
Frequency (MHz)				646968	656000	662332	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	17.05	17.08	17.07	18.5	0.0
Channel								
Frequency (MHz)				649334	656000	665968	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	17.07	17.06	17.03	18.5	0.0
Channel								
Frequency (MHz)				3735	3640	3645		
70	QPSK	1	1	16.99	17.06	17.06	18.5	0.0
Channel								
Frequency (MHz)				646968	656000	662332	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	16.98	17.03	16.96	18.5	0.0
Channel								
Frequency (MHz)				648334	656000	665968	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	17.03	17.00	16.98	18.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.99	17.01	16.96	18.5	0.0
Channel								
Frequency (MHz)				647668	656000	664332	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	17.12	17.06	16.98	18.5	0.0
Channel								
Frequency (MHz)				3710.01	3640	3669.98	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	17.03	17.00	16.95	18.5	0.0
Channel								
Frequency (MHz)				3707.52	3640	3692.48	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	16.93	17.07	17.04	18.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	16.99	17.08	17.08	18.5	0.0

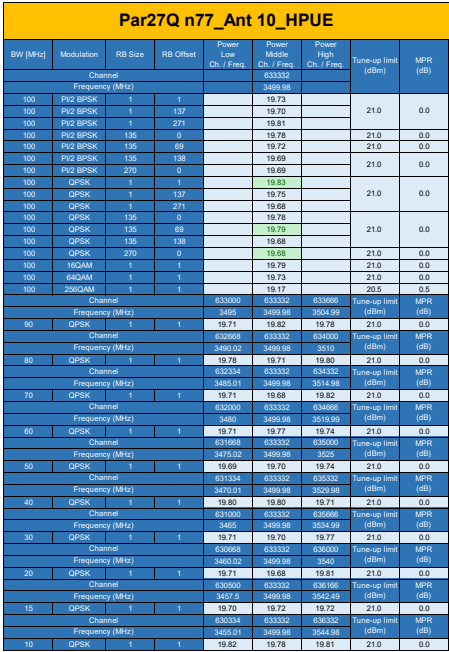
Par27Q n77_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3469.98			
100	P25 BPSK	1	1	14.83	14.83			
100	P25 BPSK	1	137	14.91	14.91	16.5	16.5	0.0
100	P25 BPSK	135	0	14.81	14.81	16.5	16.5	0.0
100	P25 BPSK	135	69	14.88	14.88	16.5	16.5	0.0
100	P25 BPSK	135	138	14.91	14.91	16.5	16.5	0.0
100	P25 BPSK	270	0	14.85	14.85			
100	QPSK	1	1	14.86	14.86	16.5	16.5	0.0
100	QPSK	1	137	14.87	14.87	16.5	16.5	0.0
100	QPSK	1	271	14.87	14.87			
100	QPSK	135	0	14.82	14.82			
100	QPSK	135	69	14.89	14.89	16.5	16.5	0.0
100	QPSK	135	138	14.84	14.84	16.5	16.5	0.0
100	QPSK	270	0	14.87	14.87			
100	16QAM	1	1	14.92	14.92	16.5	16.5	0.0
100	16QAM	1	1	14.58	14.58	16.5	16.5	0.0
100	256QAM	1	1	16.03	16.03	16.0	16.0	0.5
Channel								
	Frequency (MHz)			633000	633332	633666	Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	1	14.80	14.80	14.70	16.5	0.0
Channel								
	Frequency (MHz)			630668	633332	634000	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	14.82	14.89	14.81	16.5	0.0
Channel								
	Frequency (MHz)			6348.01	633332	634732	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0
Channel								
	Frequency (MHz)			63480	633332	633999	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	14.82	14.81	14.81	16.5	0.0
Channel								
	Frequency (MHz)			631668	633332	630000	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	14.76	14.88	14.76	16.5	0.0
Channel								
	Frequency (MHz)			631334	633332	635332	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	14.86	14.88	14.86	16.5	0.0
Channel								
	Frequency (MHz)			14.86	14.94	14.91	16.5	0.0
30	QPSK	1	1	14.87	14.81	14.90	16.5	0.0
Channel								
	Frequency (MHz)			633668	633332	630000	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.82	14.89	14.79	16.5	0.0
Channel								
	Frequency (MHz)			630500	633332	630000	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.83	14.92	14.89	16.5	0.0
Channel								
	Frequency (MHz)			3455.01	345938	345438	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.82	14.90	14.88	16.5	0.0

Par27Q n77_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63333.3	63333.3			
100	PS2 BPSK	1	1	16.95	16.95			
100	PS2 BPSK	1	137	17.00	17.00	18.5	0.0	
100	PS2 BPSK	1	266	16.96	16.96			
100	PS2 BPSK	135	0	16.98	16.98	18.5	0.0	
100	PS2 BPSK	135	69	16.97	16.97	18.5	0.0	
100	PS2 BPSK	135	136	16.98	16.98	18.5	0.0	
100	PS2 BPSK	270	0	16.88	16.88	18.5	0.0	
100	QPSK	1	1	17.03	17.03			
100	QPSK	1	137	16.98	16.98	18.5	0.0	
100	QPSK	1	271	16.91	16.91			
100	QPSK	135	0	16.92	16.92			
100	QPSK	135	69	17.00	17.00	18.5	0.0	
100	QPSK	135	136	16.98	16.98	18.5	0.0	
100	QPSK	270	0	16.96	16.96	18.5	0.0	
100	10QAM	1	1	16.85	16.85	18.5	0.0	
100	10QAM	1	137	17.00	17.00	18.5	0.0	
100	256QAM	1	1	16.38	16.38	18.0	0.5	
Channel								
Frequency (MHz)				633000	633332	633668	Turn-up limit	MPR
50	QPSK	1	1	16.93	16.93	17.01	18.5	0.0
Channel								
Frequency (MHz)				633668	633332	633000	Turn-up limit	MPR
80	QPSK	1	3400	16.92	16.99	16.95	18.5	0.0
Channel								
Frequency (MHz)				63440.0	63333.3	63475.7	Turn-up limit	MPR
70	QPSK	1	3448.01	16.99	16.98	16.94	18.5	0.0
Channel								
Frequency (MHz)				63475.7	63333.3	63440.0	Turn-up limit	MPR
70	QPSK	1	16.92	17.00	16.95	18.5	0.0	
Channel								
Frequency (MHz)				63500.0	63333.3	63500.0	Turn-up limit	MPR
60	QPSK	1	16.88	16.98	16.95	18.5	0.0	
Channel								
Frequency (MHz)				635668	633332	635000	Turn-up limit	MPR
50	QPSK	1	3475.00	16.99	16.99	16.95	18.5	0.0
Channel								
Frequency (MHz)				63533.3	633332	635332	Turn-up limit	MPR
40	QPSK	1	16.91	16.94	17.01	18.5	0.0	
Channel								
Frequency (MHz)				636100	633332	636668	Turn-up limit	MPR
30	QPSK	1	3460.0	16.99	16.94	16.84	18.5	0.0
Channel								
Frequency (MHz)				636668	633332	636000	Turn-up limit	MPR
20	QPSK	1	16.97	17.02	16.88	18.5	0.0	
Channel								
Frequency (MHz)				63690.0	633332	63690.0	Turn-up limit	MPR
15	QPSK	1	3457.5	16.99	16.98	16.94	18.5	0.0
Channel								
Frequency (MHz)				63700.0	633332	63690.0	Turn-up limit	MPR
10	QPSK	1	16.88	17.01	16.95	18.5	0.0	

Par270 n77_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1, 1st slot	Power Middle Ch. 1, 1st slot	Power High Ch. 1, 1st slot	Turn-up time (dBm)	MPR (dB)	
Channel									
		Frequency (MHz)		1750	3440	3500			
100	P25 BPSK	1	1	17.74	17.69	17.73			
100	P25 BPSK	1	137	17.68	17.76	17.73	19.0	0.0	
100	P25 BPSK	1	271	17.65	17.69	17.66			
100	P25 BPSK	135	0	17.71	17.73	17.71	19.0	0.0	
100	P25 BPSK	135	68	17.76	17.70	17.68	19.0	0.0	
100	P25 BPSK	135	136	17.69	17.76	17.65	19.0	0.0	
100	P25 BPSK	270	0	17.68	17.68	17.65	19.0	0.0	
100	QPSK	1	1	17.50	17.52	17.50			
100	QPSK	1	137	17.46	17.76	17.64			
100	QPSK	1	271	17.79	17.67	17.75			
100	QPSK	135	0	17.68	17.67	17.65			
100	QPSK	135	68	17.76	17.68	17.66	19.0	0.0	
100	QPSK	135	136	17.70	17.67	17.62			
100	QPSK	270	0	17.74	17.77	17.68	19.0	0.0	
100	16QAM	1	1	17.78	17.71	17.61	19.0	0.0	
100	16QAM	1	137	17.69	17.77	17.66	19.0	0.0	
100	16QAM	1	271	17.66	17.81	17.61	19.0	0.0	
Channel									
		Frequency (MHz)		646968	656000	662352	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	17.78	17.72	17.62	19.0	0.0	
Channel									
		Frequency (MHz)		640342	650000	652696	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	17.66	17.71	17.67	19.0	0.0	
Channel									
		Frequency (MHz)		3795	3840	3945	Turn-up time (dBm)	MPR (dB)	
70	QPSK	1	1	17.75	17.81	17.64	19.0	0.0	
Channel									
		Frequency (MHz)		3730.02	3840	3949.98	Turn-up time (dBm)	MPR (dB)	
60	QPSK	1	1	17.79	17.70	17.73	19.0	0.0	
Channel									
		Frequency (MHz)		3424.514	650000	653696	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	17.72	17.73	17.65	19.0	0.0	
Channel									
		Frequency (MHz)		648000	656000	664000	Turn-up time (dBm)	MPR (dB)	
40	QPSK	1	1	17.71	17.81	17.67	19.0	0.0	
Channel									
		Frequency (MHz)		647698	656000	664352	Turn-up time (dBm)	MPR (dB)	
30	QPSK	1	1	17.73	17.69	17.72	19.0	0.0	
Channel									
		Frequency (MHz)		647335	656000	664696	Turn-up time (dBm)	MPR (dB)	
20	QPSK	1	1	17.6101	17.84	3069.98	19.0	0.0	
Channel									
		Frequency (MHz)		3707.50	3840	3972.48	Turn-up time (dBm)	MPR (dB)	
15	QPSK	1	1	17.74	17.79	17.75	19.0	0.0	
Channel									
		Frequency (MHz)		947000	956000	965000	Turn-up time (dBm)	MPR (dB)	
10	QPSK	1	1	17.77	17.70	17.62	19.0	0.0	

Par270 n77_Ant 10_HPUE									
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. 650000	Power Middle Ch. 1 Freq. 660000	Power High Ch. 1 Freq. 660000	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	PSSK	1	1	19.63	19.63	19.63			
100	PSSK	1	137	19.58	19.63	19.68	21.0	0.0	
100	PSSK	136	0	19.58	19.68	19.59			
100	PSSK	135	99	19.61	19.68	19.58	21.0	0.0	
100	PSSK	135	136	19.58	19.65	19.62	21.0	0.0	
100	PSSK	270	0	19.68	19.73	19.62	21.0	0.0	
100	QPSK	1	1	19.70	19.75	19.72			
100	QPSK	1	137	19.62	19.68	19.64	21.0	0.0	
100	QPSK	1	271	19.68	19.72	19.69			
100	QPSK	135	0	19.67	19.69	19.69			
100	QPSK	135	97	19.66	19.71	19.68	21.0	0.0	
100	QPSK	135	136	19.66	19.60	19.65			
100	QPSK	270	0	19.61	19.62	19.58	21.0	0.0	
100	ISDM	1	1	19.67	19.73	19.67	21.0	0.0	
100	ISDM	1	136	19.56	19.72	19.69	21.0	0.0	
100	256QAM	1	1	19.11	19.16	19.14	20.5	0.5	
Channel									
Frequency (MHz)				649688	660000	663302	Turn-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.68	19.63	19.59	21.0	0.0	
Channel									
Frequency (MHz)				643334	650000	650696	Turn-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.68	19.67	19.62	21.0	0.0	
Channel									
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.66	19.67	19.70	21.0	0.0	
Channel									
Frequency (MHz)				649688	650000	650696	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.67	19.71	19.71	21.0	0.0	
Channel									
Frequency (MHz)				643334	650000	650696	Turn-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.59	19.68	19.64	21.0	0.0	
Channel									
Frequency (MHz)				645000	650000	654000	Turn-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.68	19.68	19.68	21.0	0.0	
Channel									
Frequency (MHz)				19.66	19.62	19.69	21.0	0.0	
Channel									
Frequency (MHz)				647668	660000	664332	Turn-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.64	19.64	19.64	21.0	0.0	
Channel									
Frequency (MHz)				647334	650000	654000	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				374100	3840	3969			
20	QPSK	1	1	19.55	19.65	19.69	21.0	0.0	
Channel									
Frequency (MHz)				647100	650000	654000	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.61	19.69	19.69	21.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650000	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.61	19.71	19.62	21.0	0.0	

Par27Q n77_Ant 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Qu. / Free	Power Middle Qu. / Free	Power High Qu. / Free	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3469.68			
100	Pv2 BPSK	1	1	17.77	17.75			
100	Pv2 BPSK	1	137	17.77	17.75		19.0	0.0
100	Pv2 BPSK	135	0	17.73	17.73		19.0	0.0
100	Pv2 BPSK	135	69	17.76	17.76		19.0	0.0
100	Pv2 BPSK	135	136	17.80	17.80		19.0	0.0
100	Pv2 BPSK	270	0	17.85	17.85		19.0	0.0
100	QPSK	1	1	17.77	17.76			
100	QPSK	1	137	17.77	17.76		19.0	0.0
100	QPSK	1	271	17.80	17.80			
100	QPSK	135	0	17.73	17.73			
100	QPSK	135	69	17.76	17.76		19.0	0.0
100	QPSK	135	136	17.78	17.74			
100	QPSK	270	0	17.85	17.81		19.0	0.0
100	16QAM	1	1	17.77	17.77		19.0	0.0
100	16QAM	1	1	17.77	17.77		19.0	0.0
100	256QAM	1	1	17.82	17.82		19.0	0.0
Channel								
	Frequency (MHz)			633600	633532	633666	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	17.77	17.75	17.81	19.0	0.0
Channel								
	Frequency (MHz)			636968	633532	634000	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	17.87	17.84	17.86	19.0	0.0
Channel								
	Frequency (MHz)			3468.01	3469.68	3470.35	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	17.79	17.76	17.86	19.0	0.0
Channel								
	Frequency (MHz)			3480	3469.68	3519.99	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	17.76	17.87	17.87	19.0	0.0
Channel								
	Frequency (MHz)			631568	633532	635500	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	17.77	17.81	17.82	19.0	0.0
Channel								
	Frequency (MHz)			631336	633532	635532	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	17.80	17.76	17.83	19.0	0.0
Channel								
	Frequency (MHz)			631000	633532	635666	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	17.76	17.73	17.87	19.0	0.0
Channel								
	Frequency (MHz)			630668	633532	636000	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	17.74	17.76	17.82	19.0	0.0
Channel								
	Frequency (MHz)			3467.5	3469.68	3542.49	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	17.87	17.89	17.76	19.0	0.0
Channel								
	Frequency (MHz)			3465.01	3469.68	3544.36	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	17.85	17.76	17.87	19.0	0.0



Par270 n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)				3750				
100	PQPSK	1	1	18.04	18.04				
100	PQPSK	1	137	18.08	18.08	19.0	19.0	0.0	
100	PQPSK	135	0	18.08	18.08		19.0	0.0	
100	PQPSK	135	69	18.07	18.07	19.0	19.0	0.0	
100	PQPSK	135	138	18.0	18.0	19.0	19.0	0.0	
100	PQPSK	270	0	18.07	18.07		19.0	0.0	
100	QPSK	1	1	18.12	18.12				
100	QPSK	1	137	18.0	18.0	19.0	19.0	0.0	
100	QPSK	1	271	18.11	18.11				
100	QPSK	135	0	18.04	18.04				
100	QPSK	135	69	18.08	18.08	19.0	19.0	0.0	
100	QPSK	135	138	17.98	17.98		19.0	0.0	
100	QPSK	270	0	18.0	18.0	19.0	19.0	0.0	
100	16QAM	1	1	17.97	17.97				
100	16QAM	1	137	18.07	18.07	19.0	19.0	0.0	
100	256QAM	1	1	17.97	17.97				
100	256QAM	1	137	18.07	18.07	19.0	19.0	0.0	
Channel									
	Frequency (MHz)			649668	650000	650332	Turn-up limit (dBm)	MPR (dB)	
				3742.02	3750	3758.06	19.0	0.0	
90	QPSK	1	1	18.09	18.11	18.09	18.0	0.0	
Channel									
	Frequency (MHz)			649334	650000	650666	Turn-up limit (dBm)	MPR (dB)	
				3740.01	3750	3759.99	19.0	0.0	
80	QPSK	1	1	17.97	18.01	18.00	18.0	0.0	
Channel									
	Frequency (MHz)			647887	650000	651233	Turn-up limit (dBm)	MPR (dB)	
				3735	3750	3765	19.0	0.0	
70	QPSK	1	1	17.97	18.04	18.05	18.0	0.0	
Channel									
	Frequency (MHz)			647303	650000	651369	Turn-up limit (dBm)	MPR (dB)	
				3737.03	3750	3769.98	19.0	0.0	
60	QPSK	1	1	17.97	18.04	17.98	18.0	0.0	
Channel									
	Frequency (MHz)			646734	650000	651996	Turn-up limit (dBm)	MPR (dB)	
				3729.01	3750	3774.98	19.0	0.0	
50	QPSK	1	1	18.00	18.05	18.01	19.0	0.0	
Channel									
	Frequency (MHz)			646000	650000	653000	Turn-up limit (dBm)	MPR (dB)	
				3725	3750	3775	19.0	0.0	
40	QPSK	1	1	18.06	17.98	18.04	19.0	0.0	
Channel									
	Frequency (MHz)			647668	650000	652332	Turn-up limit (dBm)	MPR (dB)	
				3715.02	3750.00	3774.98	19.0	0.0	
30	QPSK	1	1	18.10	17.99	18.00	19.0	0.0	
Channel									
	Frequency (MHz)			647333	650000	652666	Turn-up limit (dBm)	MPR (dB)	
				3710.01	3750	3789.99	19.0	0.0	
20	QPSK	1	1	18.08	17.98	18.07	19.0	0.0	
Channel									
	Frequency (MHz)			647166	650000	653332	Turn-up limit (dBm)	MPR (dB)	
				3707.52	3750	3792.48	19.0	0.0	
15	QPSK	1	1	18.09	18.07	18.06	19.0	0.0	
Channel									
	Frequency (MHz)			647000	650000	653000	Turn-up limit (dBm)	MPR (dB)	
				3705	3750	3795	19.0	0.0	
10	QPSK	1	1	18.00	18.07	18.03	19.0	0.0	

Par270 n78_Ant 4_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	P25 BPSK	1	1	18.04					
100	P25 BPSK	1	137	18.09			19.0	0.0	
100	P25 BPSK	1	271	18.11					
100	P25 BPSK	135	0	18.08					
100	P25 BPSK	135	69	17.98			19.0	0.0	
100	P25 BPSK	135	138	18.10			19.0	0.0	
100	P25 BPSK	270	0	18.07					
100	QPSK	1	1	18.12					
100	QPSK	1	137	18.00			19.0	0.0	
100	QPSK	1	271	18.11					
100	QPSK	135	0	18.04					
100	QPSK	135	69	18.08			19.0	0.0	
100	QPSK	135	138	17.98			19.0	0.0	
100	QPSK	270	0	18.00			19.0	0.0	
150	15QAM	1	1	17.97			19.0	0.0	
150	15QAM	1	1	18.07			19.0	0.0	
2500	SSB	1	1	17.97			19.0	0.0	
Channel									
Frequency (MHz)				649668	650000	650532	Turn-up time	MPR	
90	QPSK	1	1	18.02	18.02	18.02	374.38	19.0	0.0
90	QPSK	1	1	18.09	18.11	18.09	374.38	19.0	0.0
Channel									
Frequency (MHz)				3746.01	375000	376066	Turn-up time	MPR	
80	QPSK	1	1	17.97	18.01	18.06	374.38	19.0	0.0
Channel									
Frequency (MHz)				3736.50	375000	3765.98	Turn-up time	MPR	
70	QPSK	1	1	17.97	18.00	18.06	374.38	19.0	0.0
Channel									
Frequency (MHz)				3730.02	375000	3769.98	Turn-up time	MPR	
60	QPSK	1	1	17.97	18.04	18.08	374.38	19.0	0.0
Channel									
Frequency (MHz)				6483.34	650000	651896	Turn-up time	MPR	
50	QPSK	1	1	18.00	18.05	18.01	374.38	19.0	0.0
Channel									
Frequency (MHz)				6485.00	650000	652000	Turn-up time	MPR	
40	QPSK	1	1	18.00	18.05	18.00	374.38	19.0	0.0
Channel									
Frequency (MHz)				6476.68	650000	652332	Turn-up time	MPR	
30	QPSK	1	1	18.00	17.98	18.00	374.38	19.0	0.0
Channel									
Frequency (MHz)				6473.35	650000	652608	Turn-up time	MPR	
20	QPSK	1	1	18.08	17.96	18.07	374.38	19.0	0.0
Channel									
Frequency (MHz)				3707.52	375000	3762.48	Turn-up time	MPR	
15	QPSK	1	1	18.09	18.07	18.06	374.38	19.0	0.0
Channel									
Frequency (MHz)				6470.00	650000	653000	Turn-up time	MPR	
10	QPSK	1	1	18.00	18.07	18.03	374.38	19.0	0.0



Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		3493.98			
Frequency (MHz)				17.96					
100	PQ2 BPSK	1	1		18.07		19.0	0.0	
100	PQ2 BPSK	1	137		18.06				
100	PQ2 BPSK	1	271		17.95		19.0	0.0	
100	PQ2 BPSK	135	0		18.00		19.0	0.0	
100	PQ2 BPSK	135	69		17.99		19.0	0.0	
100	PQ2 BPSK	135	138		18.04				
100	PQ2 BPSK	270	0		18.10		19.0	0.0	
100	QPSK	1	1		17.97		19.0	0.0	
100	QPSK	1	137		18.01				
100	QPSK	1	271		17.95		19.0	0.0	
100	QPSK	135	0		18.00		19.0	0.0	
100	QPSK	135	69		17.97				
100	QPSK	135	138		18.02		19.0	0.0	
100	QPSK	270	0		18.01		19.0	0.0	
100	16QAM	1	1		17.95		19.0	0.0	
100	64QAM	1	1		17.96		19.0	0.0	
100	256QAM	1	1		18.01		19.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1		17.97	18.07	17.98	19.0	0.0
Channel				632688	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1		17.98	18.02	17.97	19.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1		17.96	18.00	18.04	19.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1		18.09	18.03	17.95	19.0	0.0
Channel				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1		17.96	18.04	18.01	19.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1		17.95	18.04	17.99	19.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1		18.02	17.99	18.04	19.0	0.0
Channel				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1		17.97	18.07	17.98	19.0	0.0
Channel				630300	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.5	3499.98	3545.49			
15	QPSK	1	1		17.95	18.01	17.95	19.0	0.0
Channel				630000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.01	3499.98	3544.98			
10	QPSK	1	1		17.98	18.00	18.00	19.0	0.0

Part27Q n78_Ant 4_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power MPR4 Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				633332		3493.98			
Frequency (MHz)				17.96					
100	PQ2 BPSK	1	1		18.07		19.0	0.0	
100	PQ2 BPSK	1	137		18.06				
100	PQ2 BPSK	135	0		17.95		19.0	0.0	
100	PQ2 BPSK	135	69		18.00		19.0	0.0	
100	PQ2 BPSK	135	138		18.04		19.0	0.0	
100	PQ2 BPSK	270	0		18.10		19.0	0.0	
100	QPSK	1	1		17.97		19.0	0.0	
100	QPSK	1	137		18.01				
100	QPSK	1	271		17.95		19.0	0.0	
100	QPSK	135	0		18.00		19.0	0.0	
100	QPSK	135	69		18.07				
100	QPSK	135	138		17.97		19.0	0.0	
100	QPSK	270	0		18.02		19.0	0.0	
100	16QAM	1	1		17.96		19.0	0.0	
100	64QAM	1	1		17.98		19.0	0.0	
100	256QAM	1	1		18.01		19.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495		3499.98			
90	QPSK	1	1	17.97	18.07	17.98	19.0	0.0	
Channel				632688	633332	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490.02		3499.98			
80	QPSK	1	1	17.98	18.02	17.97	19.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01		3499.98			
70	QPSK	1	1	17.96	18.00	18.04	19.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480		3499.98			
60	QPSK	1	1	18.09	18.03	17.95	19.0	0.0	
Channel				631666	633332	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02		3499.98			
50	QPSK	1	1	17.96	18.04	18.01	19.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01		3499.98			
40	QPSK	1	1	17.95	18.04	17.99	19.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465		3499.98			
30	QPSK	1	1	18.02	17.99	18.04	19.0	0.0	
Channel				630666	633332	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02		3499.98			
20	QPSK	1	1	17.97	18.07	17.98	19.0	0.0	
Channel				630300	633332	636366	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.5		3499.98			
15	QPSK	1	1	17.95	18.01	17.95	19.0	0.0	
Channel				630000	633332	636666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3450.01		3499.98			
10	QPSK	1	1	17.98	18.00	18.00	19.0	0.0	



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.72			
100	PI2 BPSK	1	137	15.81		17.0	0.0
100	PI2 BPSK	1	271	15.80			
100	PI2 BPSK	135	0	15.82		17.0	0.0
100	PI2 BPSK	135	69	15.72		17.0	0.0
100	PI2 BPSK	135	138	15.68		17.0	0.0
100	PI2 BPSK	270	0	15.81			
100	QPSK	1	1	15.63			
100	QPSK	1	137	15.68		17.0	0.0
100	QPSK	1	271	15.78			
100	QPSK	135	0	15.71			
100	QPSK	135	69	15.77		17.0	0.0
100	QPSK	135	138	15.75			
100	QPSK	270	0	15.68		17.0	0.0
100	16QAM	1	1	15.76		17.0	0.0
100	64QAM	1	1	15.73		17.0	0.0
100	256QAM	1	1	15.75		17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.71	15.73	15.71	17.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.74	15.73	15.69	17.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.69	15.79	15.78	17.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.67	15.79	15.76	17.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.70	15.72	15.77	17.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.70	15.73	15.69	17.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.66	15.82	15.75	17.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.79	15.74	15.79	17.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.73	15.77	15.68	17.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.71	15.77	15.70	17.0 0.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.72			
100	PI2 BPSK	1	137	15.81		17.0	0.0
100	PI2 BPSK	1	271	15.80			
100	PI2 BPSK	135	0	15.82		17.0	0.0
100	PI2 BPSK	135	69	15.72		17.0	0.0
100	PI2 BPSK	135	138	15.68		17.0	0.0
100	PI2 BPSK	270	0	15.81			
100	QPSK	1	1	15.63			
100	QPSK	1	137	15.68		17.0	0.0
100	QPSK	1	271	15.78			
100	QPSK	135	0	15.71			
100	QPSK	135	69	15.77		17.0	0.0
100	QPSK	135	138	15.75			
100	QPSK	270	0	15.68		17.0	0.0
100	16QAM	1	1	15.76		17.0	0.0
100	64QAM	1	1	15.73		17.0	0.0
100	256QAM	1	1	15.75		17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.71	15.73	15.71	17.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.74	15.73	15.69	17.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.69	15.79	15.78	17.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.67	15.79	15.76	17.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.70	15.72	15.77	17.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.70	15.73	15.69	17.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.66	15.82	15.75	17.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.79	15.74	15.79	17.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.73	15.77	15.68	17.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.71	15.77	15.70	17.0 0.0

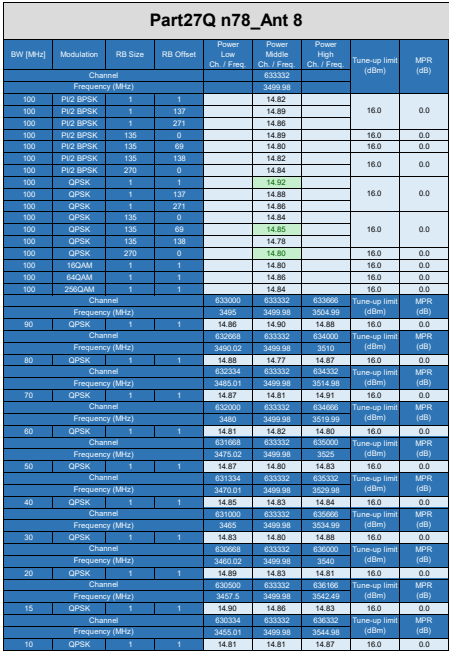
Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				633332	3493.98		
Frequency (MHz)				15.73			
100	PI2 BPSK	1	1	15.73			
100	PI2 BPSK	1	137	15.64		17.0	0.0
100	PI2 BPSK	1	271	15.66			
100	PI2 BPSK	135	0	15.75		17.0	0.0
100	PI2 BPSK	135	69	15.65		17.0	0.0
100	PI2 BPSK	135	138	15.71		17.0	0.0
100	PI2 BPSK	270	0	15.77			
100	QPSK	1	1	15.78			
100	QPSK	1	137	15.65		17.0	0.0
100	QPSK	1	271	15.69			
100	QPSK	135	0	15.70			
100	QPSK	135	69	15.77		17.0	0.0
100	QPSK	135	138	15.65			
100	QPSK	270	0	15.74		17.0	0.0
100	16QAM	1	1	15.75		17.0	0.0
100	64QAM	1	1	15.66		17.0	0.0
100	256QAM	1	1	15.63		17.0	0.0
Channel				633000	633332	633666	MFR
Frequency (MHz)				3495	3499.98	3504.99	(dB)
90	QPSK	1	1	15.70	15.73	15.77	17.0 0.0
Channel				632666	633332	634000	MFR
Frequency (MHz)				3490.02	3499.98	3510	(dB)
80	QPSK	1	1	15.72	15.65	15.73	17.0 0.0
Channel				633334	633332	633330	MFR
Frequency (MHz)				3485.01	3499.98	3514.98	(dB)
70	QPSK	1	1	15.63	15.68	15.75	17.0 0.0
Channel				632000	633332	634666	MFR
Frequency (MHz)				3485	3499.98	3518.99	(dB)
60	QPSK	1	1	15.69	15.77	15.73	17.0 0.0
Channel				631666	633332	635000	MFR
Frequency (MHz)				3475.02	3499.98	3525	(dB)
50	QPSK	1	1	15.65	15.73	15.69	17.0 0.0
Channel				631334	633332	635332	MFR
Frequency (MHz)				3470.01	3499.98	3529.98	(dB)
40	QPSK	1	1	15.74	15.60	15.67	17.0 0.0
Channel				631000	633332	635666	MFR
Frequency (MHz)				3465	3499.98	3534.99	(dB)
30	QPSK	1	1	15.69	15.70	15.71	17.0 0.0
Channel				630666	633332	636000	MFR
Frequency (MHz)				3460.02	3499.98	3540	(dB)
20	QPSK	1	1	15.73	15.77	15.70	17.0 0.0
Channel				630300	633332	636366	MFR
Frequency (MHz)				3452.5	3499.98	3542.69	(dB)
15	QPSK	1	1	15.70	15.73	15.77	17.0 0.0
Channel				630334	633332	636332	MFR
Frequency (MHz)				3452.01	3499.98	3544.98	(dB)
10	QPSK	1	1	15.73	15.68	15.70	17.0 0.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				633332	3493.98		
Frequency (MHz)				15.73			
100	PI2 BPSK	1	1	15.73			
100	PI2 BPSK	1	137	15.64		17.0	0.0
100	PI2 BPSK	1	271	15.66			
100	PI2 BPSK	135	0	15.75		17.0	0.0
100	PI2 BPSK	135	69	15.65		17.0	0.0
100	PI2 BPSK	135	138	15.71		17.0	0.0
100	PI2 BPSK	270	0	15.77			
100	QPSK	1	1	15.78			
100	QPSK	1	137	15.65		17.0	0.0
100	QPSK	1	271	15.69			
100	QPSK	135	0	15.70			
100	QPSK	135	69	15.77		17.0	0.0
100	QPSK	135	138	15.65			
100	QPSK	270	0	15.74		17.0	0.0
100	16QAM	1	1	15.75		17.0	0.0
100	64QAM	1	1	15.66		17.0	0.0
100	256QAM	1	1	15.63		17.0	0.0
Channel				633000	633332	633666	MFR
Frequency (MHz)				3495	3499.98	3504.99	(dB)
90	QPSK	1	1	15.70	15.73	15.77	17.0 0.0
Channel				632666	633332	634000	MFR
Frequency (MHz)				3490.02	3499.98	3510	(dB)
80	QPSK	1	1	15.72	15.65	15.73	17.0 0.0
Channel				633334	633332	633330	MFR
Frequency (MHz)				3485.01	3499.98	3514.98	(dB)
70	QPSK	1	1	15.63	15.68	15.75	17.0 0.0
Channel				632000	633332	634666	MFR
Frequency (MHz)				3485	3499.98	3518.99	(dB)
60	QPSK	1	1	15.69	15.77	15.73	17.0 0.0
Channel				631666	633332	635000	MFR
Frequency (MHz)				3475.02	3499.98	3525	(dB)
50	QPSK	1	1	15.65	15.73	15.69	17.0 0.0
Channel				631334	633332	635332	MFR
Frequency (MHz)				3470.01	3499.98	3529.98	(dB)
40	QPSK	1	1	15.74	15.60	15.67	17.0 0.0
Channel				631000	633332	635666	MFR
Frequency (MHz)				3465	3499.98	3534.99	(dB)
30	QPSK	1	1	15.69	15.70	15.71	17.0 0.0
Channel				630666	633332	636000	MFR
Frequency (MHz)				3460.02	3499.98	3540	(dB)
20	QPSK	1	1	15.73	15.77	15.70	17.0 0.0
Channel				630300	633332	636366	MFR
Frequency (MHz)				3452.5	3499.98	3542.69	(dB)
15	QPSK	1	1	15.70	15.73	15.77	17.0 0.0
Channel				630334	633332	636332	MFR
Frequency (MHz)				3452.01	3499.98	3544.98	(dB)
10	QPSK	1	1	15.73	15.68	15.70	17.0 0.0



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modula Ch. / Freq. (650000)	Power High Ch. / Freq. (650000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	15.53	15.53		
100	PQ2 BPSK	1	137	15.47	15.47	17.0	0.0
100	PQ2 BPSK	1	271	15.50			
100	PQ2 BPSK	135	0	15.44	15.44	17.0	0.0
100	PQ2 BPSK	135	69	15.50	15.50	17.0	0.0
100	PQ2 BPSK	135	138	15.48	15.48	17.0	0.0
100	PQ2 BPSK	270	0	15.48	15.48		
100	QPSK	1	1	15.58	15.58		
100	QPSK	1	137	15.44	15.44	17.0	0.0
100	QPSK	1	271	15.43	15.43		
100	QPSK	135	0	15.45	15.45		
100	QPSK	135	69	15.51	15.51	17.0	0.0
100	QPSK	135	138	15.46	15.46		
100	QPSK	270	0	15.43	15.43	17.0	0.0
100	16QAM	1	1	15.55	15.55	17.0	0.0
100	64QAM	1	1	15.52	15.52	17.0	0.0
100	256QAM	1	1	15.53	15.53	17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.44	15.45	15.47	17.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.48	15.47	15.53	17.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.41	15.44	15.47	17.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.56	15.43	15.47	17.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.44	15.57	15.56	17.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.51	15.50	15.49	17.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.48	15.56	15.55	17.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.46	15.44	15.44	17.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.54	15.53	15.51	17.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.51	15.52	15.47	17.0 0.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modula Ch. / Freq. (650000)	Power High Ch. / Freq. (650000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	17.02	17.02		
100	PQ2 BPSK	1	137	17.04	17.04	18.5	0.0
100	PQ2 BPSK	1	271	16.99			
100	PQ2 BPSK	135	0	17.04	17.04	18.5	0.0
100	PQ2 BPSK	135	69	17.01	17.01	18.5	0.0
100	PQ2 BPSK	135	138	17.04	17.04	18.5	0.0
100	PQ2 BPSK	270	0	16.98	16.98		
100	QPSK	1	1	17.08	17.08		
100	QPSK	1	137	16.98	16.98	18.5	0.0
100	QPSK	1	271	16.97	16.97		
100	QPSK	135	0	17.01	17.01		
100	QPSK	135	69	17.07	17.07	18.5	0.0
100	QPSK	135	138	16.95	16.95		
100	QPSK	270	0	16.99	16.99	18.5	0.0
100	16QAM	1	1	17.00	17.00	18.5	0.0
100	64QAM	1	1	16.99	16.99	18.5	0.0
100	256QAM	1	1	16.71	16.71	18.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.03	17.03	16.98	18.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.95	17.07	17.02	18.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.03	17.00	17.06	18.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.99	16.99	17.01	18.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.01	16.99	17.02	18.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.00	16.99	16.97	18.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.94	17.08	17.03	18.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.00	17.08	16.96	18.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.05	17.07	17.00	18.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.01	17.00	17.02	18.5 0.0



Part27Q n78_Ant 8 HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Qn / Freq	Power Middle Cn / Freq	Power High Qn / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)				3499.98				
100	PQPSK	1	1	16.80	16.80				
100	PQPSK	1	137	16.80	16.80	18.0	18.0	0.0	
100	PQPSK	1	271	16.80	16.80				
100	PQPSK	135	0	16.84	16.84	18.0	18.0	0.0	
100	PQPSK	135	69	16.83	16.83	18.0	18.0	0.0	
100	PQPSK	135	135	16.84	16.84	18.0	18.0	0.0	
100	PQPSK	270	0	16.89	16.89				
100	QPSK	1	1	16.95					
100	QPSK	1	137	16.81	16.81	18.0	18.0	0.0	
100	QPSK	1	271	16.85					
100	QPSK	135	0	16.82					
100	QPSK	135	69	16.84	16.84	18.0	18.0	0.0	
100	QPSK	135	135	16.84	16.84	18.0	18.0	0.0	
100	QPSK	270	0	16.84			18.0	0.0	
100	15QAM	1	1	16.88					
100	15QAM	1	137	16.88	16.88	18.0	18.0	0.0	
100	15QAM	1	271	16.88					
100	15QAM	135	0	16.94	16.94	17.5	17.5	0.5	
Channel									
	Frequency (MHz)			633000	633332	633666	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			633000	633332	633666	18.0	0.0	
Channel									
	Frequency (MHz)			633668	633332	633000	Turn-up limit (dBm)	MPR (dB)	
	Frequency (MHz)			3490.02	3499.98	3500.00	Turn-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.92	16.92		18.0	0.0	
80	QPSK	1	137	16.93	16.93	18.0	18.0	0.0	
80	QPSK	1	271	16.94	16.94	18.0	18.0	0.0	
70	QPSK	1	1	16.80	16.86	16.86	18.0	0.0	
70	QPSK	1	137	16.80	16.86	16.86	18.0	0.0	
70	QPSK	1	271	16.80	16.86	16.86	18.0	0.0	
60	QPSK	1	1	16.83	16.80	16.86	18.0	0.0	
60	QPSK	1	137	16.83	16.80	16.86	18.0	0.0	
60	QPSK	1	271	16.83	16.80	16.86	18.0	0.0	
50	QPSK	1	1	16.83	16.80	16.81	18.0	0.0	
50	QPSK	1	137	16.83	16.80	16.81	18.0	0.0	
50	QPSK	1	271	16.83	16.80	16.81	18.0	0.0	
40	QPSK	1	1	16.85	16.88	16.85	18.0	0.0	
40	QPSK	1	137	16.85	16.88	16.85	18.0	0.0	
40	QPSK	1	271	16.85	16.88	16.85	18.0	0.0	
30	QPSK	1	1	16.87	16.92	16.87	18.0	0.0	
30	QPSK	1	137	16.87	16.92	16.87	18.0	0.0	
30	QPSK	1	271	16.87	16.92	16.87	18.0	0.0	
20	QPSK	1	1	16.90	16.95	16.92	18.0	0.0	
20	QPSK	1	137	16.90	16.95	16.92	18.0	0.0	
20	QPSK	1	271	16.90	16.95	16.92	18.0	0.0	
15	QPSK	1	1	16.93	16.97	16.98	18.0	0.0	
15	QPSK	1	137	16.93	16.97	16.98	18.0	0.0	
15	QPSK	1	271	16.93	16.97	16.98	18.0	0.0	
10	QPSK	1	1	16.95	16.99	16.97	18.0	0.0	
10	QPSK	1	137	16.95	16.99	16.97	18.0	0.0	
10	QPSK	1	271	16.95	16.99	16.97	18.0	0.0	

Par270 n78_Ant 10									
BW (MHz)	Modulation	RBI Size	RBI Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			646668	650000	650332	Turn-up time (dBm)	MPR (dB)	
100	P2x BPSK	1	1	17.72	17.71	17.65	19.0	0.0	
100	P2x BPSK	1	137	17.71					
100	P2x BPSK	135	0	17.77					
100	P2x BPSK	135	69	17.72			19.0	0.0	
100	P2x BPSK	135	138	17.68			19.0	0.0	
100	P2x BPSK	270	0	17.76					
100	QPSK	1	1	17.63					
100	QPSK	1	137	17.68			19.0	0.0	
100	QPSK	1	271	17.63					
100	QPSK	135	0	17.65					
100	QPSK	135	69	17.70			19.0	0.0	
100	QPSK	135	138	17.68			19.0	0.0	
100	QPSK	270	0	17.68			19.0	0.0	
150	16QAM	1	1	17.72			19.0	0.0	
150	16QAM	1	1	17.73			19.0	0.0	
150	256QAM	1	1	17.63			19.0	0.0	
Channel									
	Frequency (MHz)			646668	650000	650332	Turn-up time (dBm)	MPR (dB)	
90	QPSK	1	1	17.71	17.71	17.65	19.0	0.0	
Channel									
	Frequency (MHz)			646450	650000	650606	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	17.76	17.69	17.65	19.0	0.0	
Channel									
	Frequency (MHz)			646200	650000	650332	Turn-up time (dBm)	MPR (dB)	
70	QPSK	1	1	17.75	17.75	17.70	19.0	0.0	
Channel									
	Frequency (MHz)			645950	650000	650606	Turn-up time (dBm)	MPR (dB)	
60	QPSK	1	1	17.75	17.64	17.69	19.0	0.0	
Channel									
	Frequency (MHz)			645700	650000	650606	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	17.63	17.74	17.74	19.0	0.0	
Channel									
	Frequency (MHz)			645450	650000	650606	Turn-up time (dBm)	MPR (dB)	
40	QPSK	1	1	17.68	17.71	17.74	19.0	0.0	
Channel									
	Frequency (MHz)			646668	650000	650332	Turn-up time (dBm)	MPR (dB)	
30	QPSK	1	1	17.75	17.69	17.74	19.0	0.0	
Channel									
	Frequency (MHz)			647355	650000	650606	Turn-up time (dBm)	MPR (dB)	
20	QPSK	1	1	17.77	17.64	17.76	19.0	0.0	
Channel									
	Frequency (MHz)			647605	650000	650332	Turn-up time (dBm)	MPR (dB)	
15	QPSK	1	1	17.71	17.70	17.64	19.0	0.0	
Channel									
	Frequency (MHz)			647855	650000	650332	Turn-up time (dBm)	MPR (dB)	
10	QPSK	1	1	17.70	17.66	17.68	19.0	0.0	



Par270 n78_Ant 10_HPUE								
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	19.68	19.68		21.0	0.0
100	PQ2 BPSK	1	137	19.72				
100	PQ2 BPSK	1	271	19.66				
100	PQ2 BPSK	135	0	19.67			21.0	0.0
100	PQ2 BPSK	135	69	19.67			21.0	0.0
100	PQ2 BPSK	135	138	19.69			21.0	0.0
100	PQ2 BPSK	270	0	19.69				
100	QPSK	1	1	19.73			21.0	0.0
100	QPSK	1	137	19.59				
100	QPSK	1	271	19.67				
100	QPSK	135	0	19.80			21.0	0.0
100	QPSK	135	69	19.72				
100	QPSK	135	138	19.65				
100	QPSK	270	0	19.70			21.0	0.0
100	16QAM	1	1	19.70			21.0	0.0
100	64QAM	1	1	19.63			21.0	0.0
100	256QAM	1	1	19.05			20.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.62	19.67	19.63	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.58	19.64	19.63	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.71	19.69	19.61	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.71	19.65	19.64	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.58	19.72	19.65	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.61	19.72	19.61	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.70	19.70	19.67	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.71	19.59	19.60	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.71	19.68	19.58	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.68	19.71	19.68	21.0	0.0

Part27Q n78_Ant 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	17.79	3496.98		19.0	0.0
100	PQ2 BPSK	1	137	17.77				
100	PQ2 BPSK	1	271	17.81				
100	PQ2 BPSK	135	0	17.77			19.0	0.0
100	PQ2 BPSK	135	69	17.82			19.0	0.0
100	PQ2 BPSK	135	138	17.77			19.0	0.0
100	PQ2 BPSK	270	0	17.82				
100	QPSK	1	1	17.84			19.0	0.0
100	QPSK	1	137	17.78				
100	QPSK	1	271	17.75				
100	QPSK	135	0	17.76			19.0	0.0
100	QPSK	135	69	17.83				
100	QPSK	135	138	17.82				
100	QPSK	270	0	17.71			19.0	0.0
100	16QAM	1	1	17.77			19.0	0.0
100	64QAM	1	1	17.72			19.0	0.0
100	256QAM	1	1	17.78			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.80	3496.98	3496.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.78	3496.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.82	3496.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.72	3496.98	3519.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.77	3496.98	3524.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.77	3496.98	3529.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.82	3496.98	3534.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.75	3496.98	3540	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.78	3496.98	3542.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.78	3496.98	3544.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.78	17.69	17.73	19.0	0.0

Part27Q n78_Ant 10_HPUE								
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	19.63	3409.18		21.0	0.0
100	PQ2 BPSK	1	137	19.76				
100	PQ2 BPSK	1	271	19.64				
100	PQ2 BPSK	135	0	19.65			21.0	0.0
100	PQ2 BPSK	135	69	19.65			21.0	0.0
100	PQ2 BPSK	135	138	19.64			21.0	0.0
100	PQ2 BPSK	270	0	19.64				
100	QPSK	1	1	19.77			21.0	0.0
100	QPSK	1	137	19.75				
100	QPSK	1	271	19.68				
100	QPSK	135	0	19.72			21.0	0.0
100	QPSK	135	69	19.75				
100	QPSK	135	138	19.65				
100	QPSK	270	0	19.63			21.0	0.0
100	16QAM	1	1	19.73			21.0	0.0
100	64QAM	1	1	19.63			21.0	0.0
100	256QAM	1	1	19.28			20.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.69	19.64	19.71	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.76	19.62	19.63	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.64	19.64	19.71	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.76	19.75	19.65	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.72	19.72	19.73	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.63	19.67	19.62	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.63	19.72	19.76	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.63	19.66	19.69	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.70	19.70	19.68	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.76	19.64	19.73	21.0	0.0



Reduced Power Mode for DSI2 + Sim

n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				370000	376000	380000			
20	PI2 BPSK	1	1	19.18	19.37	19.24	20.5	0.0	
20	PI2 BPSK	1	53	19.27	19.40	19.26			
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19	20.5	0.0	
20	QPSK	1	1	19.34	19.44	19.37	20.5	0.0	
20	QPSK	1	53	19.27	19.31	19.16			
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	16QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	64QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				370000	376000	381000			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel									
Frequency (MHz)				1665	1680	1695			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				370500	376000	381500			
5	QPSK	1	1	19.21	19.42	19.22	20.5	0.0	

n2_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				1430	1440	1438					
20	PI2 BPSK	1	1	14.38	14.40	14.38	15.5	0.0			
20	PI2 BPSK	1	53	14.26	14.27	14.28					
20	PI2 BPSK	1	104	14.17	14.26	14.19					
20	PI2 BPSK	50	5	14.24	14.26	14.20	15.5	0.0			
20	PI2 BPSK	50	28	14.29	14.29	14.34	15.5	0.0			
20	PI2 BPSK	50	56	14.19	14.15	14.15	15.5	0.0			
20	PI2 BPSK	100	0	14.28	14.33	14.32	15.5	0.0			
20	QPSK	1	1	14.41	14.44	14.40	15.5	0.0			
20	QPSK	1	53	14.34	14.37	14.36					
20	QPSK	1	104	14.25	14.30	14.23					
20	QPSK	50	0	14.26	14.30	14.25	15.5	0.0			
20	QPSK	50	28	14.35	14.36	14.37	15.5	0.0			
20	QPSK	50	56	14.24	14.22	14.22	15.5	0.0			
20	QPSK	100	0	14.34	14.39	14.33	15.5	0.0			
20	16QAM	1	1	14.37	14.38	14.35	15.5	0.0			
20	64QAM	1	1	14.27	14.27	14.32	15.5	0.0			
20	256QAM	1	1	14.22	14.28	14.18	15.5	0.0			
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				371500	370000	381500					
15	QPSK	1	1	14.39	14.41	14.35	15.5	0.0			
Channel											
Frequency (MHz)				1431	1443	1434					
10	QPSK	1	1	14.31	14.43	14.34	15.5	0.0			
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				370000	370000	381500					
5	QPSK	1	1	14.37	14.37	14.31	15.5	0.0			

n5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				16800	167300	169300					
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0			
20	PI2 BPSK	1	53	22.88	22.84	22.79					
20	PI2 BPSK	1	104	22.81	22.90	22.79					
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0			
20	PI2 BPSK	50	28	22.93	22.96	22.85	24.0	0.0			
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0			
20	PI2 BPSK	100	0	22.76	22.81	22.72					
20	QPSK	1	1	22.92	22.97	22.80	24.0	0.0			
20	QPSK	1	53	22.81	22.76	22.73					
20	QPSK	1	104	22.83	22.79	22.72					
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0			
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0			
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0			
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0			
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0			
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0			
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				16830	167300	169300					
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0			
Channel											
Frequency (MHz)				16850	167300	169300					
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0			
Channel							Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				168300	167300	169300					
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0			



n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	838			
Frequency (MHz)									
20	P12 BPSK	1	1	20.95	21.15	20.98			
20	P12 BPSK	1	53	20.96	21.08	20.94	22.5	0.0	
20	P12 BPSK	1	104	21.00	21.14	21.06			
20	P12 BPSK	50	0	20.92	21.15	20.95	22.5	0.0	
20	P12 BPSK	50	26	20.92	21.08	21.03	22.5	0.0	
20	P12 BPSK	50	56	20.92	21.05	21.01			
20	P12 BPSK	100	0	20.95	21.13	20.97	22.5	0.0	
20	QPSK	1	1	21.10	21.25	21.17			
20	QPSK	1	53	21.10	21.23	21.14	22.5	0.0	
20	QPSK	1	104	21.10	21.12	21.08			
20	QPSK	50	0	21.02	21.13	21.02	22.5	0.0	
20	QPSK	50	26	21.04	21.17	21.07	22.5	0.0	
20	QPSK	50	56	20.94	21.05	21.05	22.5	0.0	
20	QPSK	100	0	20.91	21.14	20.99			
20	64QAM	1	1	20.93	21.07	21.00	22.5	0.0	
20	64QAM	1	1	20.94	21.06	20.95	22.5	0.0	
20	256QAM	1	1	19.33	19.36	19.28	20.5	2.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.00	21.05	21.06	22.5	0.0	
Channel				166580	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	20.94	21.13	21.00	22.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	21.01	21.12	20.94	22.5	0.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2550	2535	2550			
40	P12 BPSK	1	1	15.16	15.49	15.49			
40	P12 BPSK	1	108	15.17	15.52	15.44	16.5	0.0	
40	P12 BPSK	1	214	15.10	15.47	15.45			
40	P12 BPSK	108	0	15.29	15.54	15.40	16.5	0.0	
40	P12 BPSK	108	54	15.12	15.47	15.35	16.5	0.0	
40	P12 BPSK	108	108	15.27	15.31	15.31			
40	P12 BPSK	216	0	15.27	15.46	15.30	16.5	0.0	
40	QPSK	1	1	15.31	15.62	15.54			
40	QPSK	1	108	15.21	15.60	15.46	16.5	0.0	
40	QPSK	1	214	15.26	15.51	15.43			
40	QPSK	108	0	15.15	15.54	15.50	16.5	0.0	
40	QPSK	108	54	15.28	15.56	15.51	16.5	0.0	
40	QPSK	108	108	15.21	15.45	15.36	16.5	0.0	
40	QPSK	216	0	15.26	15.56	15.40			
40	16QAM	1	1	15.23	15.52	15.48	16.5	0.0	
40	64QAM	1	1	15.20	15.53	15.44	16.5	0.0	
40	256QAM	1	1	15.25	15.48	15.45	16.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	15.27	15.52	15.47	16.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	15.24	15.54	15.48	16.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	15.23	15.53	15.49	16.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	15.30	15.57	15.47	16.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	15.29	15.59	15.53	16.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	15.24	15.59	15.46	16.5	0.0	

n7_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2550	2535	2550			
40	P12 BPSK	1	1	20.99	20.96	20.97			
40	P12 BPSK	1	108	20.99	20.92	20.90	22.0	0.0	
40	P12 BPSK	1	214	20.90	20.95	20.97			
40	P12 BPSK	108	0	20.97	20.96	20.96	22.0	0.0	
40	P12 BPSK	108	54	20.88	20.98	20.96	22.0	0.0	
40	P12 BPSK	108	108	20.92	20.92	21.01			
40	P12 BPSK	216	0	20.90	21.02	20.98	22.0	0.0	
40	QPSK	1	1	21.05	21.07	21.03			
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0	
40	QPSK	1	214	20.97	20.97	21.01			
40	QPSK	108	0	20.89	20.98	20.99	22.0	0.0	
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0	
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0	
40	QPSK	216	0	20.91	21.02	20.92			
40	16QAM	1	1	20.91	20.94	20.91	22.0	0.0	
40	64QAM	1	1	20.87	20.93	20.90	22.0	0.0	
40	256QAM	1	1	20.38	20.46	20.43	21.0	1.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	20.96	21.00	20.93	22.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0	

n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77			
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71			
15	QPSK	1	1	22.85	22.82	22.82			
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70			
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0	
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.76	22.83	22.76			
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	23.31	23.36	23.34	24.0	0.0	
15	P12 BPSK	1	40	23.23	23.31	23.23			
15	P12 BPSK	1	77	23.26	23.33	23.31			
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0	0.0	
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0	0.0	
15	P12 BPSK	36	43	23.11	23.24	23.17	24.0	0.0	
15	P12 BPSK	75	0	23.21	23.30	23.17			
15	QPSK	1	1	23.27	23.37	23.30			
15	QPSK	1	40	23.15	23.22	23.19	24.0	0.0	
15	QPSK	1	77	23.11	23.27	23.18			
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0	
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0	
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0	
15	QPSK	75	0	23.12	23.29	23.23	24.0	0.0	
15	16QAM	1	1	23.19	23.32	23.15			
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5	
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0	

n14_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1		22.93		24.0	0.0	
10	P12 BPSK	1	26		22.91				
10	P12 BPSK	1	50		22.89				
10	P12 BPSK	25	0		22.92		24.0	0.0	
10	P12 BPSK	25	14		22.91		24.0	0.0	
10	P12 BPSK	25	27		22.92		24.0	0.0	
10	P12 BPSK	50	0		22.89				
10	QPSK	1	1		22.93				
10	QPSK	1	26		22.84		24.0	0.0	
10	QPSK	1	50		22.89				
10	QPSK	25	0		22.93		24.0	0.0	
10	QPSK	25	14		22.95		24.0	0.0	
10	QPSK	25	27		22.89		24.0	0.0	
10	QPSK	50	0		22.84		24.0	0.0	
10	16QAM	1	1		22.89				
10	64QAM	1	1		22.22		23.0	1.0	
10	256QAM	1	1		20.05		21.0	3.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	

n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1		20.03		21.5	0.0	
10	P12 BPSK	1	26		19.94				
10	P12 BPSK	1	50		19.93		21.5	0.0	
10	P12 BPSK	25	0		19.96				
10	P12 BPSK	25	14		20.06		21.5	0.0	
10	P12 BPSK	25	27		19.93		21.5	0.0	
10	P12 BPSK	50	0		19.94		21.5	0.0	
10	QPSK	1	1		20.10				
10	QPSK	1	26		20.02		21.5	0.0	
10	QPSK	1	50		20.02		21.5	0.0	
10	QPSK	25	0		19.96		21.5	0.0	
10	QPSK	25	14		20.09		21.5	0.0	
10	QPSK	25	27		19.93		21.5	0.0	
10	QPSK	50	0		20.03		21.5	0.0	
10	64QAM	1	1		20.00		21.5	0.0	
10	256QAM	1	1		19.89		21.0	0.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.07	20.06	20.07	21.5	0.0	

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dtfm)	MPR (db)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.27	19.28	19.23	20.5	0.0	
40	P12 BPSK	1	108	19.28	19.29	19.21			
40	P12 BPSK	1	214	19.29	19.25	19.26	20.5	0.0	
40	P12 BPSK	108	0	19.20	19.23	19.30			
40	P12 BPSK	108	54	19.27	19.34	19.28	20.5	0.0	
40	P12 BPSK	108	108	19.28	19.32	19.21	20.5	0.0	
40	P12 BPSK	216	0	19.20	19.24	19.27			
40	QPSK	1	1	19.31	19.45	19.33	20.5	0.0	
40	QPSK	1	108	19.16	19.29	19.24			
40	QPSK	1	214	19.24	19.32	19.31	20.5	0.0	
40	QPSK	108	0	19.26	19.34	19.29			
40	QPSK	108	54	19.28	19.35	19.30	20.5	0.0	
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0	
40	QPSK	216	0	19.17	19.33	19.20	20.5	0.0	
40	16QAM	1	1	19.23	19.23	19.29			
40	64QAM	1	1	19.17	19.37	19.25	20.5	0.0	
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.23	19.29	19.30	20.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.21	19.23	19.25	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.16	19.27	19.29	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.34	19.30	19.22	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0	

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	13.92	14.06	13.90	15.5	0.0	
40	P12 BPSK	1	108	13.89	13.98	13.92			
40	P12 BPSK	1	214	13.90	13.93	13.92	15.5	0.0	
40	P12 BPSK	108	0	13.94	13.92	13.98			
40	P12 BPSK	108	54	13.89	13.93	13.94	15.5	0.0	
40	P12 BPSK	108	108	13.92	13.90	13.93	15.5	0.0	
40	P12 BPSK	216	0	13.95	13.98	13.94			
40	QPSK	1	1	14.02	14.09	13.97	15.5	0.0	
40	QPSK	1	108	13.86	13.98	13.95			
40	QPSK	1	214	13.97	14.02	13.91	15.5	0.0	
40	QPSK	108	0	13.96	13.97	13.98			
40	QPSK	108	54	13.98	14.00	13.93	15.5	0.0	
40	QPSK	108	108	13.93	13.90	13.92	15.5	0.0	
40	QPSK	216	0	13.94	13.95	13.90	15.5	0.0	
40	16QAM	1	1	13.92	13.98	13.96			
40	64QAM	1	1	13.89	13.91	13.90	15.5	0.0	
40	256QAM	1	1	13.90	13.97	13.91	15.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	13.97	14.06	13.96	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.98	14.05	13.91	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.94	14.02	13.95	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.96	14.02	13.90	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.96	14.02	13.96	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.94	14.02	13.91	15.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.98	14.04	13.96	15.5	0.0	

n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164400	166300	167800			
Frequency (MHz)				824	831.5	839			
20	P12 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.83	22.87			
20	P12 BPSK	1	104	22.90	22.79	22.88			
20	P12 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	P12 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	P12 BPSK	100	0	22.86	22.86	22.91			
20	QPSK	1	1	22.90	22.88	22.91			
20	QPSK	1	53	22.90	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87			
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83			
20	16QAM	1	1	22.86	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164400	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163000	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163000	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				164400	166300	167800			
Frequency (MHz)				804	831.5	839			
20	P12 BPSK	1	1	21.39	21.39	21.35	22.5	0.0	
20	P12 BPSK	1	53	21.30	21.41	21.40			
20	P12 BPSK	1	104	21.33	21.38	21.36			
20	P12 BPSK	50	0	21.44	21.48	21.46	22.5	0.0	
20	P12 BPSK	50	26	21.34	21.42	21.37	22.5	0.0	
20	P12 BPSK	50	56	21.31	21.36	21.38	22.5	0.0	
20	P12 BPSK	100	0	21.34	21.45	21.45			
20	QPSK	1	1	21.45	21.50	21.47			
20	QPSK	1	53	21.30	21.36	21.36	22.5	0.0	
20	QPSK	1	104	21.41	21.45	21.38			
20	QPSK	50	0	21.31	21.42	21.41			
20	QPSK	50	26	21.37	21.48	21.45	22.5	0.0	
20	QPSK	50	56	21.35	21.39	21.32	22.5	0.0	
20	QPSK	100	0	21.36	21.42	21.36			
20	16QAM	1	1	21.36	21.46	21.41	22.5	0.0	
20	64QAM	1	1	21.35	21.49	21.38	22.5	0.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	1.5	
Channel				164400	166300	168300	Tune-up limit (dbm)		
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	21.39	21.48	21.44	22.5	0.0	
Channel				163000	166300	168800	Tune-up limit (dbm)		
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	21.44	21.48	21.40	22.5	0.0	
Channel				163000	166300	169300	Tune-up limit (dbm)		
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	21.59	21.47	21.41	22.5	0.0	



n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				860060		2310		
Frequency (MHz)								
10	P12 BPSK	1	1		16.09		18.0	0.0
10	P12 BPSK	1	26		16.05			
10	P12 BPSK	1	50		15.88			
10	P12 BPSK	25	0		16.01		18.0	0.0
10	P12 BPSK	25	14		15.92		18.0	0.0
10	P12 BPSK	25	27		15.92		18.0	0.0
10	P12 BPSK	50	0		15.90			
10	QPSK	1	1		16.10			
10	QPSK	1	26		16.06		18.0	0.0
10	QPSK	1	50		15.89			
10	QPSK	25	0		16.01			
10	QPSK	25	14		16.06		18.0	0.0
10	QPSK	25	27		15.96		18.0	0.0
10	QPSK	50	0		16.03		18.0	0.0
10	16QAM	1	1		16.04			
10	64QAM	1	1		16.03			
10	256QAM	1	1		15.88		18.0	0.0
Channel				461060	460060	462060	Tune-up limit	MFR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	16.00	16.01	16.06	18.0	0.0

n30_Ant 9								
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				860060		2310		
Frequency (MHz)								
10	P12 BPSK	1	1		23.02		24.0	0.0
10	P12 BPSK	1	26		23.00			
10	P12 BPSK	1	50		22.96			
10	P12 BPSK	25	0		22.96		24.0	0.0
10	P12 BPSK	25	14		23.01		24.0	0.0
10	P12 BPSK	25	27		22.97		24.0	0.0
10	P12 BPSK	50	0		22.97			
10	QPSK	1	1		23.03			
10	QPSK	1	26		22.97		24.0	0.0
10	QPSK	1	50		22.94			
10	QPSK	25	0		22.97			
10	QPSK	25	14		22.98		24.0	0.0
10	QPSK	25	27		22.92		24.0	0.0
10	QPSK	50	0		22.93		24.0	0.0
10	16QAM	1	1		22.91			
10	64QAM	1	1		22.44			
10	256QAM	1	1		20.25		21.0	3.0
Channel				461060	460060	462060	Tune-up limit	MFR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	22.97	22.99	22.98	24.0	0.0

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.95	19.98	19.95			
40	P12 BPSK	1	108	19.89	19.97	19.88	21.0		0.0
40	P12 BPSK	1	214	19.85	19.90	19.88			
40	P12 BPSK	108	0	19.90	19.99	19.94	21.0		0.0
40	P12 BPSK	108	54	19.88	20.00	19.98	21.0		0.0
40	P12 BPSK	108	108	19.87	20.03	19.88			
40	P12 BPSK	216	0	19.91	19.95	19.89	21.0		0.0
40	QPSK	1	1	20.00	20.05	20.02			
40	QPSK	1	108	19.85	20.02	19.89	21.0		0.0
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.98	19.89	21.0		0.0
40	QPSK	108	54	19.95	20.00	19.95	21.0		0.0
40	QPSK	108	108	19.91	19.97	19.93	21.0		0.0
40	QPSK	216	0	19.92	20.02	19.87			
40	16QAM	1	1	19.97	20.03	20.00	21.0		0.0
40	64QAM	1	1	19.92	20.00	20.00	21.0		0.0
40	256QAM	1	1	19.86	20.01	19.89	21.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.85	19.95	20.01	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.93	19.97	19.87	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.91	20.03	19.89	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.99	19.87	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.89	21.0		0.0

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	14.78	14.88	14.72			
40	P12 BPSK	1	108	14.61	14.70	14.52	15.5		0.0
40	P12 BPSK	1	214	14.68	14.81	14.78			
40	P12 BPSK	108	0	14.56	14.83	14.75	15.5		0.0
40	P12 BPSK	108	54	14.64	14.78	14.77	15.5		0.0
40	P12 BPSK	108	108	14.61	14.73	14.57			
40	P12 BPSK	216	0	14.60	14.79	14.68	15.5		0.0
40	QPSK	1	1	14.83	14.82	14.55			
40	QPSK	1	108	14.71	14.73	14.62	15.5		0.0
40	QPSK	1	214	14.68	14.63	14.79			
40	QPSK	108	0	14.71	14.80	14.72	15.5		0.0
40	QPSK	108	54	14.72	14.85	14.78	15.5		0.0
40	QPSK	108	108	14.71	14.83	14.65	15.5		0.0
40	QPSK	216	0	14.68	14.62	14.73			
40	16QAM	1	1	14.81	14.85	14.79	15.5		0.0
40	64QAM	1	1	14.66	14.72	14.60	15.5		0.0
40	256QAM	1	1	14.67	14.79	14.71	15.5		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	14.76	14.86	14.82	15.5		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.74	14.90	14.84	15.5		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.77	14.83	14.79	15.5		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.76	14.83	14.78	15.5		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.82	14.91	14.76	15.5		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.79	14.86	14.76	15.5		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.76	14.89	14.82	15.5		0.0

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1702.5					
15	P12 BPSK	1	1		20.68				
15	P12 BPSK	1	40		20.78		22.0		0.0
15	P12 BPSK	1	77		20.72				
15	P12 BPSK	36	0		20.75		22.0		0.0
15	P12 BPSK	36	22		20.73		22.0		0.0
15	P12 BPSK	36	43		20.67				
15	P12 BPSK	75	0		20.69		22.0		0.0
15	QPSK	1	1		20.82				
15	QPSK	1	40		20.73		22.0		0.0
15	QPSK	1	77		20.73				
15	QPSK	36	0		20.68		22.0		0.0
15	QPSK	36	22		20.70		22.0		0.0
15	QPSK	36	43		20.67				
15	QPSK	75	0		20.75		22.0		0.0
15	16QAM	1	1		20.78		22.0		0.0
15	64QAM	1	1		20.74		22.0		0.0
15	256QAM	1	1		20.35		21.5		0.5
Channel									
Frequency (MHz)				345000					
10	QPSK	1	1	20.81	20.77	20.68	22.0		MPR (dB)
Channel									
Frequency (MHz)				345000					
5	QPSK	1	1	20.70	20.69	20.81	22.0		MPR (dB)



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1		340000 1702.5		16.5	0.0	
15	P12 BPSK	1	40		15.83				
15	P12 BPSK	1	77		15.73				
15	P12 BPSK	36	0		15.83		16.5	0.0	
15	P12 BPSK	36	22		15.85		16.5	0.0	
15	P12 BPSK	36	43		15.64		16.5	0.0	
15	P12 BPSK	75	0		15.85		16.5	0.0	
15	QPSK	1	1		15.95				
15	QPSK	1	40		15.93				
15	QPSK	1	77		15.82		16.5	0.0	
15	QPSK	36	0		15.83		16.5	0.0	
15	QPSK	36	22		15.93		16.5	0.0	
15	QPSK	36	43		15.76		16.5	0.0	
15	QPSK	75	0		15.91		16.5	0.0	
15	16QAM	1	1		15.86		16.5	0.0	
15	64QAM	1	1		15.83		16.5	0.0	
15	256QAM	1	1		15.73		16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.90	340000 1702.5	341000 1705	Tune-up limit (dBm)	16.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.87	339500 1702.5	341000 1705	Tune-up limit (dBm)	16.5	0.0

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	P12 BPSK	1	80	23.01	23.04	22.92			
30	P12 BPSK	1	158	23.00	23.08	23.01			
30	P12 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	P12 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	P12 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	P12 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.96	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0	
30	QPSK	80	0	22.89	22.93	22.91			
30	QPSK	80	40	22.91	22.96	22.93			
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.86	24.0	0.0	
30	16QAM	1	1	22.80	22.83	22.83			
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.90	22.99	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	22.92	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				676	680.5	683			
30	P12 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	P12 BPSK	1	80	23.15	23.16	23.10			
30	P12 BPSK	1	158	23.18	23.24	23.20			
30	P12 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	P12 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	P12 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	P12 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.08	23.09	23.11			
30	QPSK	80	40	23.13	23.19	23.17			
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14			
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)			
Channel											
Frequency (MHz)											
40	Pl2 BPSK	1	1	15.46	15.73	15.68	17.5	0.0			
40	Pl2 BPSK	1	53	15.57	15.67	15.71					
40	Pl2 BPSK	1	104	15.62	15.58	15.70					
40	Pl2 BPSK	50	0	15.60	15.71	15.64					
40	Pl2 BPSK	50	26	15.49	15.62	15.59	17.5	0.0			
40	Pl2 BPSK	50	56	15.71	15.58	15.61	17.5	0.0			
40	Pl2 BPSK	100	0	15.74	15.68	15.56	17.5	0.0			
40	QPSK	1	1	15.60	15.76	15.72					
40	QPSK	1	53	15.55	15.60	15.66					
40	QPSK	1	104	15.59	15.61	15.62					
40	QPSK	50	0	15.52	15.68	15.62	17.5	0.0			
40	QPSK	50	26	15.60	15.70	15.64					
40	QPSK	50	56	15.61	15.64	15.49					
40	QPSK	100	0	15.61	15.62	15.49					
40	16QAM	1	1	15.65	15.56	15.75	17.5	0.0			
40	16QAM	1	1	15.63	15.65	15.58	17.5	0.0			
40	256QAM	1	1	15.57	15.61	15.71	17.5	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	15.65	15.62	15.68	17.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	15.58	15.64	15.69	17.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	15.60	15.66	15.72	17.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	15.46	15.73	15.60	17.5	0.0			

n38_Ant 9											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	Pl2 BPSK	1	1	21.36	21.45	21.36	22.5	0.0			
40	Pl2 BPSK	1	53	21.33	21.41	21.41					
40	Pl2 BPSK	1	104	21.33	21.42	21.26					
40	Pl2 BPSK	50	0	21.30	21.46	21.38					
40	Pl2 BPSK	50	26	21.39	21.47	21.38	22.5	0.0			
40	Pl2 BPSK	50	56	21.37	21.47	21.32	22.5	0.0			
40	Pl2 BPSK	100	0	21.30	21.35	21.35	22.5	0.0			
40	QPSK	1	1	21.44	21.49	21.42					
40	QPSK	1	53	21.36	21.46	21.40					
40	QPSK	1	104	21.39	21.42	21.41					
40	QPSK	50	0	21.33	21.40	21.32	22.5	0.0			
40	QPSK	50	26	21.36	21.42	21.34					
40	QPSK	50	56	21.30	21.40	21.28					
40	QPSK	100	0	21.30	21.40	21.38					
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0			
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0			
40	256QAM	1	1	20.91	20.94	20.82	21.5	1.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0			

n41_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)				2568.01	2569.29						
100	P2 BPSK	1	1	15.62	15.78	15.73	17.5	0.0			
100	P2 BPSK	1	137	15.61	15.66	15.73					
100	P2 BPSK	1	271	15.66	15.67	15.67					
100	P2 BPSK	135	0	15.64	15.75	15.62					
100	P2 BPSK	135	66	15.58	15.74	15.68	17.5	0.0			
100	P2 BPSK	135	138	15.70	15.72	15.73	17.5	0.0			
100	P2 BPSK	270	0	15.70	15.69	15.65	17.5	0.0			
100	QPSK	1	1	15.73	15.80	15.75					
100	QPSK	1	137	15.67	15.66	15.67					
100	QPSK	1	271	15.72	15.77	15.73					
100	QPSK	135	0	15.63	15.72	15.64	17.5	0.0			
100	QPSK	135	66	15.66	15.75	15.71					
100	QPSK	135	138	15.60	15.70	15.60					
100	QPSK	270	0	15.62	15.72	15.70					
100	16QAM	1	1	15.62	15.70	15.74	17.5	0.0			
100	16QAM	1	1	15.72	15.76	15.60	17.5	0.0			
100	256QAM	1	1	15.58	15.72	15.70	17.5	0.0			
Channel											
Frequency (MHz)				506900	518698	520998	Tune-up limit (dBm)			MPR (dB)	
80	QPSK	1	1	15.59	15.76	15.69	17.5	0.0			
Channel											
Frequency (MHz)				507203	518698	520998	Tune-up limit (dBm)	MPR (dB)			
80	QPSK	1	1	15.71	15.76	15.67	17.5	0.0			
Channel											
Frequency (MHz)				2561.01	2569.29	2569.99	Tune-up limit (dBm)	MPR (dB)			
70	QPSK	1	1	15.64	15.70	15.72	17.5	0.0			
Channel											
Frequency (MHz)				505203	518698	520998	Tune-up limit (dBm)	MPR (dB)			
60	QPSK	1	1	15.66	15.68	15.68	17.5	0.0			
Channel											
Frequency (MHz)				504204	518698	520998	Tune-up limit (dBm)	MPR (dB)			
50	QPSK	1	1	15.59	15.75	15.62	17.5	0.0			
Channel											
Frequency (MHz)				2561.01	2569.29	2569.99	Tune-up limit (dBm)	MPR (dB)			
40	QPSK	1	1	15.65	15.74	15.69	17.5	0.0			
Channel											
Frequency (MHz)				505209	518698	520998	Tune-up limit (dBm)	MPR (dB)			
30	QPSK	1	1	15.64	15.65	15.60	17.5	0.0			
Channel											
Frequency (MHz)				2568.02	2569.29	2569.99	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	1	15.64	15.76	15.64	17.5	0.0			
Channel											
Frequency (MHz)				2560.3	2569.29	2569.28	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	1	15.68	15.70	15.66	17.5	0.0			
Channel											
Frequency (MHz)				505922	518698	520700	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	1	15.61	15.72	15.63	17.5	0.0			
Channel											
Frequency (MHz)				1	15.65	15.67	15.73	17.5	0.0		

n41_Ant 1_HPUE									
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				509002	518098	526000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	15.62	15.73	15.73			
100	PQ2 BPSK	1	137	15.61	15.66	15.73	17.5	0.0	
100	PQ2 BPSK	1	271	15.66	15.67	15.67			
100	PQ2 BPSK	135	0	15.64	15.75	15.62	17.5	0.0	
100	PQ2 BPSK	135	69	15.58	15.74	15.68	17.5	0.0	
100	PQ2 BPSK	135	138	15.70	15.72	15.73	17.5	0.0	
100	PQ2 BPSK	270	0	15.70	15.69	15.65			
100	QPSK	1	1	15.73	15.60	15.75			
100	QPSK	1	137	15.67	15.69	15.67	17.5	0.0	
100	QPSK	1	271	15.72	15.77	15.73			
100	QPSK	135	0	15.63	15.72	15.64			
100	QPSK	135	69	15.64	15.75	15.74	17.5	0.0	
100	QPSK	135	138	15.60	15.70	15.60			
100	QPSK	270	0	15.62	15.72	15.70	17.5	0.0	
100	16QAM	1	1	15.62	15.70	15.74	17.5	0.0	
100	64QAM	1	1	15.72	15.76	15.60	17.5	0.0	
100	256QAM	1	1	15.58	15.72	15.70	17.5	0.0	
Channel				506200	518098	526096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	15.60	15.78	15.69	17.5	0.0	
Channel				507204	518098	526098	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.99	(dBm)	(dB)	
80	QPSK	1	1	15.71	15.76	15.67	17.5	0.0	
Channel				505202	517500	527000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	15.64	15.70	15.72	17.5	0.0	
Channel				502000	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2524	2592.99	2674.98	(dBm)	(dB)	
60	QPSK	1	1	15.66	15.68	15.68	17.5	0.0	
Channel				504204	518098	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2684.99	(dBm)	(dB)	
50	QPSK	1	1	15.59	15.75	15.62	17.5	0.0	
Channel				503002	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	15.65	15.74	15.69	17.5	0.0	
Channel				502200	518098	535098	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	15.64	15.65	15.60	17.5	0.0	
Channel				507004	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	15.64	15.76	15.64	17.5	0.0	
Channel				500700	518098	536498	Tune-up limit	MPR	
Frequency (MHz)				2603.5	2592.99	2683.48	(dBm)	(dB)	
15	QPSK	1	1	15.68	15.70	15.66	17.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	15.65	15.67	15.73	17.5	0.0	



n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2544.01	2592.99	2544			
100	PQ2 BPSK	1	1	20.31	20.44	20.29			
100	PQ2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21			
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.09	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13			
100	QPSK	135	69	20.05	20.36	20.24	22.0	0.0	
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	19.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2544	2592.99	2644.98			
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				502000	518598	531066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2658.98			
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.25	20.40	20.33	22.0	0.0	
Channel				502205	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				507204	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2544.01	2592.99	2544			
100	PQ2 BPSK	1	1	20.31	20.44	20.29			
100	PQ2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21			
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.09	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13			
100	QPSK	135	69	20.05	20.36	20.24	22.0	0.0	
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	19.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2544	2592.99	2644.98			
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				502000	518598	531066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2658.98			
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.25	20.40	20.33	22.0	0.0	
Channel				502205	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				507204	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	



n41_Ant 5									
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				506002	518598	526000			
Frequency (MHz)				2546.01	2592.99	2540			
100	PQ2 BPSK	1	1	19.56	19.65	19.69	21.0	0.0	
100	PQ2 BPSK	1	137	19.65	19.64	19.59			
100	PQ2 BPSK	1	271	19.68	19.72	19.63			
100	PQ2 BPSK	135	0	19.69	19.66	19.65			
100	PQ2 BPSK	135	69	19.59	19.65	19.68	21.0	0.0	
100	PQ2 BPSK	135	138	19.64	19.72	19.65	21.0	0.0	
100	PQ2 BPSK	270	0	19.61	19.65	19.69	21.0	0.0	
100	QPSK	1	1	19.70	19.76	19.72			
100	QPSK	1	137	19.69	19.64	19.64			
100	QPSK	1	271	19.67	19.68	19.63			
100	QPSK	135	0	19.64	19.69	19.62			
100	QPSK	135	69	19.67	19.74	19.67	21.0	0.0	
100	QPSK	135	138	19.58	19.65	19.58	21.0	0.0	
100	QPSK	270	0	19.66	19.71	19.58			
100	16QAM	1	1	19.56	19.76	19.58			
100	64QAM	1	1	19.59	19.64	19.59			
100	256QAM	1	1	19.56	19.72	19.57	20.5	0.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.64	19.73	19.63	21.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	19.59	19.76	19.71	21.0	0.0	
Channel				507502	518598	537010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	19.67	19.76	19.61	21.0	0.0	
Channel				508200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2608.98			
60	QPSK	1	1	19.59	19.68	19.59	21.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99			
50	QPSK	1	1	19.60	19.71	19.69	21.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.58	19.75	19.67	21.0	0.0	
Channel				502200	518598	535986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.56	19.75	19.62	21.0	0.0	
Channel				507204	518598	535986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.56	19.64	19.69	21.0	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	19.64	19.64	19.67	21.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2685			
10	QPSK	1	1	19.69	19.76	19.58	21.0	0.0	

n41_Ant 5_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2546.01	2592.99	2540			
100	PQ2 BPSK	1	1	19.56	19.65	19.69	21.0	0.0	
100	PQ2 BPSK	1	137	19.65	19.64	19.59			
100	PQ2 BPSK	1	271	19.68	19.72	19.63			
100	PQ2 BPSK	135	0	19.69	19.66	19.65			
100	PQ2 BPSK	135	69	19.59	19.65	19.68	21.0	0.0	
100	PQ2 BPSK	135	138	19.64	19.72	19.65	21.0	0.0	
100	PQ2 BPSK	270	0	19.61	19.65	19.69	21.0	0.0	
100	QPSK	1	1	19.70	19.76	19.72			
100	QPSK	1	137	19.69	19.64	19.64			
100	QPSK	1	271	19.67	19.68	19.63			
100	QPSK	135	0	19.64	19.69	19.62			
100	QPSK	135	69	19.67	19.74	19.67	21.0	0.0	
100	QPSK	135	138	19.58	19.65	19.58	21.0	0.0	
100	QPSK	270	0	19.66	19.71	19.58			
100	16QAM	1	1	19.56	19.76	19.58			
100	64QAM	1	1	19.59	19.64	19.57			
100	256QAM	1	1	19.56	19.72	19.57	21.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	21.0	0.0	
90	QPSK	1	1	19.64	19.73	19.63	21.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	21.0	0.0	
80	QPSK	1	1	19.59	19.76	19.71	21.0	0.0	
Channel				507502	518598	537010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	21.0	0.0	
70	QPSK	1	1	19.67	19.76	19.61	21.0	0.0	
Channel				508200	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2608.98	21.0	0.0	
60	QPSK	1	1	19.59	19.68	19.59	21.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99	21.0	0.0	
50	QPSK	1	1	19.60	19.71	19.69	21.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	21.0	0.0	
40	QPSK	1	1	19.58	19.75	19.67	21.0	0.0	
Channel				502200	518598	535986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	21.0	0.0	
30	QPSK	1	1	19.56	19.75	19.62	21.0	0.0	
Channel				507204	518598	535986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	21.0	0.0	
20	QPSK	1	1	19.56	19.64	19.69	21.0	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48	21.0	0.0	
15	QPSK	1	1	19.64	19.64	19.67	21.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2685	21.0	0.0	
10	QPSK	1	1	19.65	19.76	19.58	21.0	0.0	

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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				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MPR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532698	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0
Channel				502200	518098	535000	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532698	Tune-up limit	MPR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536498	Tune-up limit	MPR
Frequency (MHz)				2603.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				500202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	536000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 506002	Power Middle Ch. / Freq 518598	Power High Ch. / Freq 526000	Tune-up limit (dbm)	MPR (dB)	
Channel				2546.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.53	21.53	21.45	22.5	0.0	
100	PQ2 BPSK	1	137	21.40	21.54	21.40			
100	PQ2 BPSK	1	271	21.52	21.53	21.41			
100	PQ2 BPSK	135	0	21.41	21.49	21.40			
100	PQ2 BPSK	135	69	21.43	21.48	21.43			
100	PQ2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PQ2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.53	21.53	21.52			
100	QPSK	1	137	21.45	21.49	21.45			
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39	22.5	0.0	
100	QPSK	135	69	21.53	21.59	21.44			
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43			
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526096	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526098	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				507502	518598	531003	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				502000	518598	531995	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532098	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2664.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				502200	518598	535995	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532098	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.51	21.45	21.48	22.5	0.0	

n41_Ant 9_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dbm)	MPR (dB)	
Channel				506000	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.53	21.53	21.45	22.5	0.0	
100	PQ2 BPSK	1	137	21.40	21.54	21.40			
100	PQ2 BPSK	1	271	21.52	21.53	21.41			
100	PQ2 BPSK	135	0	21.41	21.49	21.40			
100	PQ2 BPSK	135	69	21.43	21.48	21.43			
100	PQ2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PQ2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.53	21.53	21.52			
100	QPSK	1	137	21.45	21.49	21.45			
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39	22.5	0.0	
100	QPSK	135	69	21.53	21.59	21.44			
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43			
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526096	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526098	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2636.02	2592.99	2649.99			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				507502	518598	531003	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				502000	518598	531995	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532098	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2621.02	2592.99	2664.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2616.01	2592.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				502200	518598	535995	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532098	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2606.02	2592.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.51	21.45	21.45	22.5	0.0	



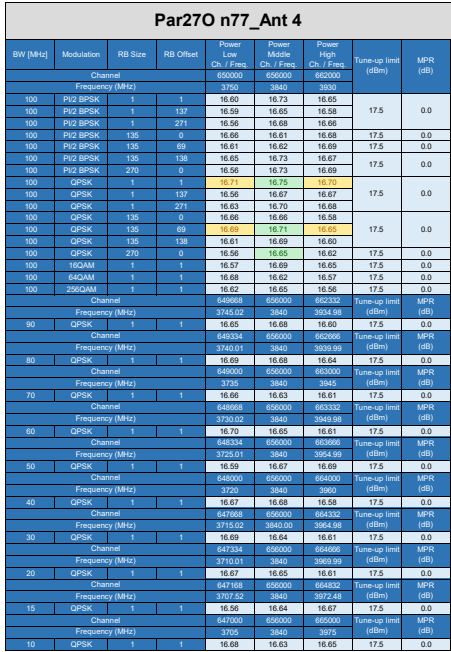
n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				19.39	19.49	19.43			
40	PI2 BPSK	1	1	19.39	19.49	19.43			
40	PI2 BPSK	1	53	19.47	19.51	19.42	20.5		
40	PI2 BPSK	1	104	19.37	19.43	19.39			
40	PI2 BPSK	50	0	19.36	19.45	19.47	20.5		
40	PI2 BPSK	50	26	19.42	19.45	19.42	20.5		
40	PI2 BPSK	50	56	19.38	19.38	19.33	20.5		
40	PI2 BPSK	100	0	19.35	19.51	19.42			
40	QPSK	1	1	19.39	19.49	19.43			
40	QPSK	1	53	19.47	19.45	19.43	20.5		
40	QPSK	1	104	19.37	19.49	19.39			
40	QPSK	50	0	19.38	19.42	19.33			
40	QPSK	50	26	19.42	19.45	19.42	20.5		
40	QPSK	50	56	19.40	19.47	19.40			
40	QPSK	100	0	19.42	19.45	19.38	20.5		
40	16QAM	1	1	19.49	19.49	19.36	20.5		
40	64QAM	1	1	19.39	19.49	19.36	20.5		
40	256QAM	1	1	19.45	19.45	19.45	20.5		
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3065.02	3024.99	3034.99	(dBm)	(dB)	
30	QPSK	1	1	19.45	19.50	19.45	20.5		
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3060.01	3024.99	3060	(dBm)	(dB)	
20	QPSK	1	1	19.45	19.51	19.34	20.5		
Channel				637500	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3055	3024.99	3064.98	(dBm)	(dB)	
10	QPSK	1	1	19.46	19.39	19.47	20.5		

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				13.65	13.73	13.69			
40	PI2 BPSK	1	1	13.65	13.73	13.69			
40	PI2 BPSK	1	53	13.68	13.67	13.69	15.0		
40	PI2 BPSK	1	104	13.66	13.72	13.71			
40	PI2 BPSK	50	0	13.55	13.73	13.62	15.0		
40	PI2 BPSK	50	26	13.56	13.64	13.69	15.0		
40	PI2 BPSK	50	56	13.55	13.69	13.58	15.0		
40	PI2 BPSK	100	0	13.57	13.71	13.71			
40	QPSK	1	1	13.65	13.77	13.72			
40	QPSK	1	53	13.66	13.69	13.59	15.0		
40	QPSK	1	104	13.69	13.67	13.65			
40	QPSK	50	0	13.57	13.65	13.58			
40	QPSK	50	26	13.57	13.70	13.61	15.0		
40	QPSK	50	56	13.60	13.69	13.58			
40	QPSK	100	0	13.68	13.69	13.66	15.0		
40	16QAM	1	1	13.56	13.73	13.66	15.0		
40	64QAM	1	1	13.55	13.76	13.62	15.0		
40	256QAM	1	1	13.69	13.74	13.70	15.0		
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3065.02	3024.99	3034.99	(dBm)	(dB)	
30	QPSK	1	1	13.65	13.71	13.69	15.0		
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3060.01	3024.99	3060	(dBm)	(dB)	
20	QPSK	1	1	13.56	13.75	13.71	15.0		
Channel				637500	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3055	3024.99	3064.98	(dBm)	(dB)	
10	QPSK	1	1	13.56	13.68	13.60	15.0		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				327.9	328.152	329.158			
40	Pl2 BPSK	1	1	16.03	15.99	16.04	17.0	0.0	
40	Pl2 BPSK	1	53	15.93	16.10	16.09			
40	Pl2 BPSK	1	104	15.94	16.08	16.01			
40	Pl2 BPSK	50	0	16.02	16.03	16.00	17.0	0.0	
40	Pl2 BPSK	50	26	15.96	16.03	15.96	17.0	0.0	
40	Pl2 BPSK	50	56	16.00	16.01	16.06	17.0	0.0	
40	Pl2 BPSK	100	0	15.93	16.11	16.06			
40	QPSK	1	1	16.07	16.12	16.10			
40	QPSK	1	53	16.06	15.97	15.96	17.0	0.0	
40	QPSK	1	104	15.92	16.10	16.04	17.0	0.0	
40	QPSK	50	0	15.97	15.98	15.97			
40	QPSK	50	26	16.04	16.06	16.04			
40	QPSK	50	56	15.96	15.97	16.02	17.0	0.0	
40	QPSK	100	0	15.99	16.07	15.98			
40	16QAM	1	1	15.99	16.07	16.06	17.0	0.0	
40	16QAM	1	1	16.06	16.07	16.02	17.0	0.0	
40	256QAM	1	1	15.95	16.01	15.97	17.0	0.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3694.99	(dBm)	(dB)	
30	QPSK	1	1	15.99	16.08	16.01	17.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	15.96	16.01	16.09	17.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	16.06	16.02	15.96	17.0	0.0	

n48_FCC_Part96_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				327.9	328.152	329.158			
40	Pl2 BPSK	1	1	21.88	22.05	21.99	23.0	0.0	
40	Pl2 BPSK	1	53	21.89	21.96	21.88			
40	Pl2 BPSK	1	104	21.86	22.05	21.82			
40	Pl2 BPSK	50	0	21.98	21.95	21.82	23.0	0.0	
40	Pl2 BPSK	50	26	21.93	22.03	21.92	23.0	0.0	
40	Pl2 BPSK	50	56	21.88	22.02	21.88	23.0	0.0	
40	Pl2 BPSK	100	0	21.88	21.98	21.83			
40	QPSK	1	1	22.01	22.07	21.96			
40	QPSK	1	53	22.00	22.06	21.94	23.0	0.0	
40	QPSK	1	104	22.00	22.04	21.88	23.0	0.0	
40	QPSK	50	0	21.92	22.00	21.82			
40	QPSK	50	26	21.95	22.04	21.94			
40	QPSK	50	56	21.87	21.75	21.69	23.0	0.0	
40	QPSK	100	0	21.53	21.68	21.56			
40	16QAM	1	1	21.99	22.00	21.96	23.0	0.0	
40	16QAM	1	1	20.42	20.46	20.34	21.5	1.5	
40	256QAM	1	1	19.39	19.45	19.31	19.5	3.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3694.99	(dBm)	(dB)	
30	QPSK	1	1	21.93	21.92	21.85	23.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	21.91	21.92	21.80	23.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	21.96	21.97	21.92	23.0	0.0	



Par27Q n77_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Qn / I Freq	Power Middle Qn / I Freq	Power High Qn / I Freq	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633500	633532	633666	Turn-up time (dBm)	MPR (dB)
100	Pv2 BPSK	1	1	16.57	16.62	16.59	17.5	0.0
100	Pv2 BPSK	1	137	16.59	16.61	16.58	17.5	0.0
100	Pv2 BPSK	1	271	16.67	16.67	16.67	17.5	0.0
100	Pv2 BPSK	135	0	16.58	16.58	16.58	17.5	0.0
100	Pv2 BPSK	135	69	16.61	16.61	16.61	17.5	0.0
100	Pv2 BPSK	135	138	16.60	16.60	16.60	17.5	0.0
100	Pv2 BPSK	270	0	16.56	16.56	16.56	17.5	0.0
100	QPSK	1	1	16.71	16.71	16.71	17.5	0.0
100	QPSK	1	137	16.67	16.67	16.67	17.5	0.0
100	QPSK	1	271	16.67	16.67	16.67	17.5	0.0
100	QPSK	135	0	16.59	16.59	16.59	17.5	0.0
100	QPSK	135	69	16.60	16.60	16.60	17.5	0.0
100	QPSK	135	138	16.61	16.61	16.61	17.5	0.0
100	QPSK	270	0	16.56	16.56	16.56	17.5	0.0
100	16QAM	1	1	16.68	16.68	16.68	17.5	0.0
100	16QAM	1	1	16.63	16.63	16.63	17.5	0.0
100	256QAM	1	1	16.69	16.69	16.69	17.5	0.0
Channel								
Frequency (MHz)				633600	633532	633666	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	16.57	16.62	16.59	17.5	0.0
Channel								
Frequency (MHz)				634000	633532	634000	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	16.58	16.58	16.66	17.5	0.0
Channel								
Frequency (MHz)				634600	633958	635100	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	16.57	16.61	16.63	17.5	0.0
Channel								
Frequency (MHz)				634800	633958	635100	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	16.57	16.61	16.63	17.5	0.0
Channel								
Frequency (MHz)				635000	633958	635100	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	16.48	16.62	16.52	17.5	0.0
Channel								
Frequency (MHz)				635100	633532	635000	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	16.59	16.69	16.62	17.5	0.0
Channel								
Frequency (MHz)				631350	633532	635532	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.57	16.57	16.58	17.5	0.0
Channel								
Frequency (MHz)				631000	633532	635666	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	16.61	16.62	16.52	17.5	0.0
Channel								
Frequency (MHz)				630600	633532	636000	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	16.61	16.61	16.66	17.5	0.0
Channel								
Frequency (MHz)				630500	633532	635800	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	16.56	16.56	16.60	17.5	0.0
Channel								
Frequency (MHz)				630500	634000	634458	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	16.57	16.66	16.55	17.5	0.0



Par27Q n77_Ant 4_HPUE									
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	16.61	3499.98				
100	PQ2 BPSK	1	137	16.59			17.5		0.0
100	PQ2 BPSK	1	271	16.67					
100	PQ2 BPSK	135	0	16.58			17.5		0.0
100	PQ2 BPSK	135	69	16.61			17.5		0.0
100	PQ2 BPSK	135	138	16.70			17.5		0.0
100	PQ2 BPSK	270	0	16.56					
100	QPSK	1	1	16.71					
100	QPSK	1	137	16.61			17.5		0.0
100	QPSK	1	271	16.69					
100	QPSK	135	0	16.57					
100	QPSK	135	69	16.69			17.5		0.0
100	QPSK	135	138	16.61					
100	QPSK	270	0	16.56			17.5		0.0
100	16QAM	1	1	16.68			17.5		0.0
100	64QAM	1	1	16.63			17.5		0.0
100	256QAM	1	1	16.59			17.5		0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.62	3499.98	3500.99	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.60	3499.98	3500	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.59	3499.98	3500.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.57	3499.98	3500.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.58	3499.98	3500.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.59	3499.98	3500.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.61	3499.98	3500.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.60	3499.98	3500.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.56	3499.98	3502.99	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.56	3499.98	3504.98	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.57	3499.98	3506.99	Time-up limit (dBm)	MPR (dB)	

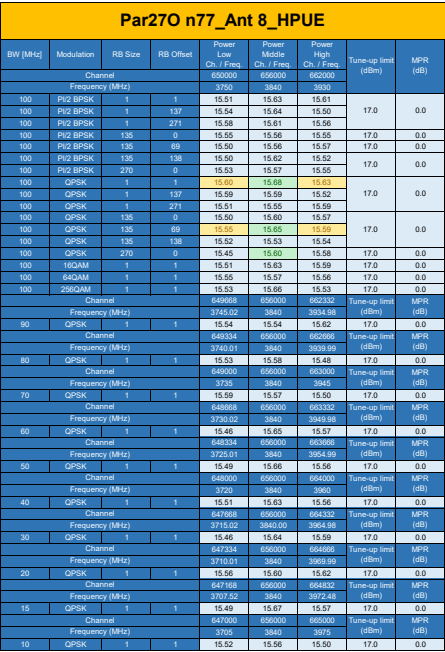
Par270 n77_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	13.93	14.09	13.92			
100	PQ2 BPSK	1	137	13.94	13.96	13.91	15.5	0.0	0.0
100	PQ2 BPSK	1	271	13.97	14.06	13.94			
100	PQ2 BPSK	135	0	13.89	13.98	13.98	15.5	0.0	0.0
100	PQ2 BPSK	135	69	13.97	13.95	13.91	15.5	0.0	0.0
100	PQ2 BPSK	135	138	14.00	14.09	13.98			
100	PQ2 BPSK	270	0	14.00	14.01	14.00	15.5	0.0	0.0
100	QPSK	1	1	13.93	14.10	14.05			
100	QPSK	1	137	13.93	14.09	14.02	15.5	0.0	0.0
100	QPSK	1	271	13.95	14.03	13.90			
100	QPSK	135	0	13.94	14.07	13.96			
100	QPSK	135	69	13.97	14.08	14.03	15.5	0.0	0.0
100	QPSK	135	138	13.99	14.06	14.01			
100	QPSK	270	0	13.93	14.02	13.98	15.5	0.0	0.0
100	16QAM	1	1	13.94	14.04	13.95	15.5	0.0	0.0
100	64QAM	1	1	13.98	14.00	13.98	15.5	0.0	0.0
100	256QAM	1	1	13.93	14.03	13.95	15.5	0.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.91	13.99	14.04	15.5	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.90	14.03	13.96	15.5	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.93	14.03	13.96	15.5	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.90	13.98	13.99	15.5	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.94	14.02	14.04	15.5	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.90	14.00	13.93	15.5	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.97	13.97	13.93	15.5	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.97	14.02	13.99	15.5	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.02	14.07	13.95	15.5	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.98	14.01	13.92	15.5	0.0	0.0

Par270 n77_Ant 7_HPUE									
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	13.93	14.08	13.92			
100	PQ2 BPSK	1	137	13.94	13.96	13.91	15.5	0.0	
100	PQ2 BPSK	1	271	13.97	14.06	13.94			
100	PQ2 BPSK	135	0	13.89	13.98	13.98	15.5	0.0	
100	PQ2 BPSK	135	69	13.97	13.95	13.91	15.5	0.0	
100	PQ2 BPSK	135	138	14.00	14.09	13.98			
100	PQ2 BPSK	270	0	14.00	14.01	14.00	15.5	0.0	
100	QPSK	1	1	14.03	14.10	14.05			
100	QPSK	1	137	13.93	14.09	14.02	15.5	0.0	
100	QPSK	1	271	13.95	14.03	13.90			
100	QPSK	135	0	13.94	14.07	13.96			
100	QPSK	135	69	13.97	14.08	14.03	15.5	0.0	
100	QPSK	135	138	13.99	14.06	14.01			
100	QPSK	270	0	13.93	14.02	13.98	15.5	0.0	
100	16QAM	1	1	13.94	14.04	13.95	15.5	0.0	
100	64QAM	1	1	13.98	14.00	13.98	15.5	0.0	
100	256QAM	1	1	13.93	14.03	13.95	15.5	0.0	
Channel				666666	656000	662352	Time-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3824.08	(dBm)	(dB)	
90	QPSK	1	1	13.91	13.99	14.04	15.5	0.0	
Channel				662334	656000	662698	Time-up limit (dBm)	MPR	
Frequency (MHz)				3745.01	3840	3809.99	(dBm)	(dB)	
80	QPSK	1	1	13.90	14.03	13.96	15.5	0.0	
Channel				660000	656000	662000	Time-up limit (dBm)	MPR	
Frequency (MHz)				3736	3840	3835	(dBm)	(dB)	
70	QPSK	1	1	13.93	14.03	13.96	15.5	0.0	
Channel				656000	656000	664000	Time-up limit (dBm)	MPR	
Frequency (MHz)				3739.99	3840	3849.98	(dBm)	(dB)	
60	QPSK	1	1	13.90	13.98	13.99	15.5	0.0	
Channel				643334	656000	663666	Time-up limit (dBm)	MPR	
Frequency (MHz)				3745.01	3840	3845.98	(dBm)	(dB)	
50	QPSK	1	1	13.94	14.02	14.04	15.5	0.0	
Channel				656000	656000	664000	Time-up limit (dBm)	MPR	
Frequency (MHz)				3740	3840	3840	(dBm)	(dB)	
40	QPSK	1	1	13.90	14.08	13.93	15.5	0.0	
Channel				647668	656000	648332	Time-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3840.08	3824.08	(dBm)	(dB)	
30	QPSK	1	1	13.97	14.07	14.02	15.5	0.0	
Channel				673161	656000	665839	Time-up limit (dBm)	MPR	
Frequency (MHz)				3701.01	3840	3869.99	(dBm)	(dB)	
20	QPSK	1	1	13.97	14.02	13.99	15.5	0.0	
Channel				674000	656000	664000	Time-up limit (dBm)	MPR	
Frequency (MHz)				3702.50	3840	3892.48	(dBm)	(dB)	
15	QPSK	1	1	14.07	14.07	13.95	15.5	0.0	
Channel				647000	656000	662000	Time-up limit (dBm)	MPR	
Frequency (MHz)				3705	3840	3872	(dBm)	(dB)	
10	QPSK	1	1	13.98	14.01	13.92	15.5	0.0	

Par27Q n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	14.04	639332		
100	PQ2 BPSK	1	137	13.96			15.5
100	PQ2 BPSK	1	271	14.02			
100	PQ2 BPSK	135	0	13.93			15.5
100	PQ2 BPSK	135	69	13.96			15.5
100	PQ2 BPSK	135	138	14.03			15.5
100	PQ2 BPSK	270	0	14.03			
100	QPSK	1	1	14.05			
100	QPSK	1	137	13.96			15.5
100	QPSK	1	271	14.04			
100	QPSK	135	0	13.96			
100	QPSK	135	69	14.00			15.5
100	QPSK	135	138	13.90			15.5
100	QPSK	270	0	13.91			15.5
100	16QAM	1	1	13.93			15.5
100	64QAM	1	1	13.92			15.5
100	256QAM	1	1	13.93			15.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	13.92	633332	639996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
80	QPSK	1	1	13.92	633332	634000	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
70	QPSK	1	1	13.91	633332	634996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
60	QPSK	1	1	13.88	633332	635000	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
50	QPSK	1	1	13.84	633332	635996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
40	QPSK	1	1	13.84	633332	636996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
30	QPSK	1	1	13.82	633332	637996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
20	QPSK	1	1	13.94	633332	638996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
15	QPSK	1	1	13.88	633332	639332	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
10	QPSK	1	1	13.86	633332	639668	Tune-up limit (dBm) MPR

Par27Q n77_Ant 7_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	14.04	633332		
100	PQ2 BPSK	1	137	13.96			15.5
100	PQ2 BPSK	1	271	14.02			
100	PQ2 BPSK	135	0	13.93			15.5
100	PQ2 BPSK	135	69	13.96			15.5
100	PQ2 BPSK	135	138	14.03			15.5
100	PQ2 BPSK	270	0	14.03			
100	QPSK	1	1	14.05			
100	QPSK	1	137	13.96			15.5
100	QPSK	1	271	14.04			
100	QPSK	135	0	13.96			
100	QPSK	135	69	14.00			15.5
100	QPSK	135	138	13.90			15.5
100	QPSK	270	0	13.91			15.5
100	16QAM	1	1	13.93			15.5
100	64QAM	1	1	13.92			15.5
100	256QAM	1	1	13.93			15.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	13.92	633332	639996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
80	QPSK	1	1	13.92	633332	634000	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
70	QPSK	1	1	13.91	633332	634996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
60	QPSK	1	1	13.88	633332	635000	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
50	QPSK	1	1	13.84	633332	635996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
40	QPSK	1	1	13.84	633332	636996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
30	QPSK	1	1	13.82	633332	637996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
20	QPSK	1	1	13.94	633332	638996	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
15	QPSK	1	1	13.88	633332	639332	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
10	QPSK	1	1	13.86	633332	639668	Tune-up limit (dBm) MPR

Par27O n77_Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	15.51	650000		
100	PQ2 BPSK	1	137	15.54			17.0
100	PQ2 BPSK	1	271	15.58			
100	PQ2 BPSK	135	0	15.55			17.0
100	PQ2 BPSK	135	69	15.50			17.0
100	PQ2 BPSK	135	138	15.50			17.0
100	PQ2 BPSK	270	0	15.53			
100	QPSK	1	1	15.55			17.0
100	QPSK	1	137	15.59			17.0
100	QPSK	1	271	15.51			
100	QPSK	135	0	15.50			
100	QPSK	135	69	15.52			17.0
100	QPSK	135	138	15.52			17.0
100	QPSK	270	0	15.45			17.0
100	16QAM	1	1	15.51			17.0
100	64QAM	1	1	15.55			17.0
100	256QAM	1	1	15.53			17.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.54	650000	650632	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.53	650000	650668	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.59	650000	651332	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.48	650000	652000	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.49	650000	652668	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.51	650000	653332	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.48	650000	654000	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.56	650000	654668	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.49	650000	655332	Tune-up limit (dBm) MPR
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.52	650000	656000	Tune-up limit (dBm) MPR



Par27Q n77_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			3469.18				
100	PV2 BPSK	1	1	14.83	14.83			
100	PV2 BPSK	1	137	14.91	14.91	16.5	16.5	0.0
100	PV2 BPSK	135	0	14.81	14.81		16.5	0.0
100	PV2 BPSK	135	69	14.88	14.88		16.5	0.0
100	PV2 BPSK	135	138	14.91	14.91		16.5	0.0
100	PV2 BPSK	270	0	14.85	14.85		16.5	0.0
100	QPSK	1	1	14.86	14.86			
100	QPSK	1	137	14.88	14.88	16.5	16.5	0.0
100	QPSK	1	271	14.87	14.87			
100	QPSK	135	0	14.82	14.82			
100	QPSK	135	69	14.89	14.89	16.5	16.5	0.0
100	QPSK	135	138	14.84	14.84		16.5	0.0
100	QPSK	270	0	14.87	14.87		16.5	0.0
100	16QAM	1	1	14.92	14.92			
100	16QAM	1	1	14.92	14.92			
100	256QAM	1	1	16.03	16.03			
100	256QAM	1	1	16.03	16.03			
Channel								
	Frequency (MHz)			63300.0	63332.0	63666.0	Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	1	14.80	14.80	14.70	16.5	0.0
Channel								
	Frequency (MHz)			63668.0	63332.0	63400.0	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	14.82	14.89	14.81	16.5	0.0
Channel								
	Frequency (MHz)			64484.0	63332.0	64732.0	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0
Channel								
	Frequency (MHz)			64800.0	63332.0	65100.0	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	14.82	14.81	14.81	16.5	0.0
Channel								
	Frequency (MHz)			65168.0	63332.0	65000.0	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	14.83	14.89	14.82	16.5	0.0
Channel								
	Frequency (MHz)			65480.0	63332.0	65400.0	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	14.76	14.88	14.78	16.5	0.0
Channel								
	Frequency (MHz)			66134.0	63332.0	66532.0	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.80	14.88	14.80	16.5	0.0
Channel								
	Frequency (MHz)			66480.0	63332.0	66400.0	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.87	14.81	14.90	16.5	0.0
Channel								
	Frequency (MHz)			66968.0	63332.0	67000.0	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.82	14.89	14.80	16.5	0.0
Channel								
	Frequency (MHz)			67400.0	63332.0	67400.0	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.82	14.83	14.79	16.5	0.0
Channel								
	Frequency (MHz)			67672.0	63332.0	67672.0	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.83	14.92	14.89	16.5	0.0
Channel								
	Frequency (MHz)			68216.0	63332.0	68200.0	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.82	14.90	14.88	16.5	0.0

Par27Q n77_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3499.98				
100	P2-PSK	1	1	15.62	15.62			
100	P2-PSK	1	137	15.57	15.57	17.0	0.0	
100	P2-PSK	135	0	15.53	15.53	17.0	0.0	
100	P2-PSK	135	69	15.56	15.56	17.0	0.0	
100	P2-PSK	135	136	15.61	15.61	17.0	0.0	
100	P2-PSK	270	0	15.61	15.61	17.0	0.0	
100	QPSK	1	1	15.54	15.54			
100	QPSK	1	137	15.56	15.56	17.0	0.0	
100	QPSK	1	271	15.54	15.54			
100	QPSK	135	0	15.54	15.54	17.0	0.0	
100	QPSK	135	69	15.56	15.56	17.0	0.0	
100	QPSK	135	136	15.53	15.53	17.0	0.0	
100	QPSK	270	0	15.52	15.52	17.0	0.0	
100	16QAM	1	1	15.54	15.54	17.0	0.0	
100	16QAM	1	137	15.58	15.58	17.0	0.0	
100	256QAM	1	1	15.48	15.48	17.0	0.0	
Channel								
Frequency (MHz)				633000	633332	633668	Turn-up limit	MPR
90	QPSK	1	1	15.48	15.51	15.58	17.0	0.0
Channel								
Frequency (MHz)				633668	633332	633000	Turn-up limit	MPR
80	QPSK	1	1	15.40	15.42	15.50	17.0	0.0
Channel								
Frequency (MHz)				3496.02	3499.98	3504.00	Turn-up limit	MPR
70	QPSK	1	1	15.48	15.50	15.54	17.0	0.0
Channel								
Frequency (MHz)				3496.01	3499.98	3504.08	Turn-up limit	MPR
70	QPSK	1	1	15.53	15.55	15.58	17.0	0.0
Channel								
Frequency (MHz)				3495.00	3499.98	3500.00	Turn-up limit	MPR
70	QPSK	1	1	15.46	15.52	15.54	17.0	0.0
Channel								
Frequency (MHz)				3497.00	3499.98	3500.00	Turn-up limit	MPR
50	QPSK	1	1	15.54	15.55	15.56	17.0	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Turn-up limit	MPR
40	QPSK	1	1	15.48	15.49	15.50	17.0	0.0
Channel								
Frequency (MHz)				15.52	15.55	15.58	Turn-up limit	MPR
40	QPSK	1	1	15.52	15.55	15.55	17.0	0.0
Channel								
Frequency (MHz)				631000	633332	636668	Turn-up limit	MPR
30	QPSK	1	1	15.49	15.54	15.54	17.0	0.0
Channel								
Frequency (MHz)				3495.02	3499.98	3500.00	Turn-up limit	MPR
20	QPSK	1	1	15.46	15.62	15.50	17.0	0.0
Channel								
Frequency (MHz)				3497.0	3499.98	3502.00	Turn-up limit	MPR
15	QPSK	1	1	15.49	15.63	15.46	17.0	0.0
Channel								
Frequency (MHz)				632000	633332	634668	Turn-up limit	MPR
10	QPSK	1	1	15.50	15.50	15.54	17.0	0.0
Channel								
Frequency (MHz)				15.56	15.52	15.59	17.0	0.0
10	QPSK	1	1	15.56	15.52	15.59	17.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	17.74	17.79	17.72		
100	Pi2 BPSK	1	137	17.68	17.76	17.73	19.0	0.0
100	Pi2 BPSK	1	271	17.65	17.69	17.66		
100	Pi2 BPSK	136	0	17.71	17.73	17.61	19.0	0.0
100	Pi2 BPSK	136	69	17.76	17.70	17.65	19.0	0.0
100	Pi2 BPSK	136	138	17.66	17.70	17.70	19.0	0.0
100	Pi2 BPSK	270	0	17.68	17.68	17.65		
100	QPSK	1	1	17.80	17.82	17.76		
100	QPSK	1	137	17.66	17.76	17.64	19.0	0.0
100	QPSK	1	271	17.79	17.67	17.75		
100	QPSK	136	0	17.68	17.69	17.65		
100	QPSK	136	69	17.74	17.76	17.69	19.0	0.0
100	QPSK	136	138	17.70	17.67	17.62		
100	QPSK	270	0	17.74	17.77	17.68	19.0	0.0
100	16QAM	1	1	17.78	17.71	17.61	19.0	0.0
100	64QAM	1	1	17.69	17.77	17.65	19.0	0.0
100	256QAM	1	1	17.66	17.81	17.61	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.75	17.72	17.62	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.66	17.71	17.67	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.75	17.81	17.64	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.79	17.70	17.73	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.72	17.73	17.65	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.71	17.81	17.67	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.73	17.69	17.72	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.71	17.67	17.66	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.74	17.79	17.75	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.77	17.70	17.62	19.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.63	19.65	19.59		
100	Pi2 BPSK	1	137	19.58	19.63	19.68	21.0	0.0
100	Pi2 BPSK	1	271	19.55	19.68	19.59		
100	Pi2 BPSK	136	0	19.66	19.60	19.66	21.0	0.0
100	Pi2 BPSK	136	69	19.61	19.65	19.58	21.0	0.0
100	Pi2 BPSK	136	138	19.56	19.65	19.62	21.0	0.0
100	Pi2 BPSK	270	0	19.68	19.73	19.62		
100	QPSK	1	1	19.70	19.75	19.72		
100	QPSK	1	137	19.62	19.69	19.68	21.0	0.0
100	QPSK	1	271	19.68	19.72	19.60		
100	QPSK	136	0	19.67	19.69	19.69		
100	QPSK	136	69	19.66	19.71	19.70	21.0	0.0
100	QPSK	136	138	19.66	19.60	19.66		
100	QPSK	270	0	19.61	19.62	19.58	21.0	0.0
100	16QAM	1	1	19.67	19.73	19.67	21.0	0.0
100	64QAM	1	1	19.56	19.72	19.69	21.0	0.0
100	256QAM	1	1	19.11	19.16	19.14	20.5	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.56	19.63	19.59	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.68	19.67	19.62	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.66	19.67	19.70	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.67	19.71	19.71	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.59	19.68	19.64	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.66	19.62	19.69	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.64	19.66	19.58	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.55	19.65	19.69	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.61	19.69	19.69	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.61	19.71	19.62	21.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		17.87			
100	Pi2 BPSK	1	137		17.75		19.0	0.0
100	Pi2 BPSK	1	271		17.76			
100	Pi2 BPSK	136	0		17.73		19.0	0.0
100	Pi2 BPSK	136	69		17.76		19.0	0.0
100	Pi2 BPSK	136	138		17.83		19.0	0.0
100	Pi2 BPSK	270	0		17.85			
100	QPSK	1	1		17.88			
100	QPSK	1	137		17.76		19.0	0.0
100	QPSK	1	271		17.80			
100	QPSK	136	0		17.73			
100	QPSK	136	69		17.61		19.0	0.0
100	QPSK	136	138		17.74			
100	QPSK	270	0		17.75		19.0	0.0
100	16QAM	1	1		17.87		19.0	0.0
100	64QAM	1	1		17.77		19.0	0.0
100	256QAM	1	1		17.82		19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.77	17.75	17.81	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.87	17.84	17.86	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.79	17.76	17.86	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.75	17.87	17.87	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.77	17.81	17.82	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.80	17.78	17.83	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.76	17.73	17.87	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.74	17.76	17.82	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.87	17.81	17.76	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.85	17.76	17.87	19.0	0.0

Par27Q n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB 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	3495.98	19.73			21.0	0.0
100	Pi2 BPSK	1	137	19.70					
100	Pi2 BPSK	1	271	19.81					
100	Pi2 BPSK	136	0	19.78			21.0	0.0	0.0
100	Pi2 BPSK	136	69	19.72			21.0		
100	Pi2 BPSK	136	138	19.68			21.0		
100	Pi2 BPSK	270	0	19.69			21.0	0.0	0.0
100	QPSK	1	1	19.83					
100	QPSK	1	137	19.75					
100	QPSK	1	271	19.68			21.0	0.0	0.0
100	QPSK	136	0	19.78					
100	QPSK	136	69	19.79			21.0		
100	QPSK	136	138	19.68			21.0	0.0	0.0
100	QPSK	270	0	19.68			21.0		
100	16QAM	1	1	19.79			21.0		
100	16QAM	1	1	19.73			21.0	0.0	0.0
100	256QAM	1	1	19.17			20.5		
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.71	19.82	19.78	21.0	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3496.02	3499.98	3510		MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.71	19.68	19.82	21.0	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.71	19.77	19.74	21.0	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.69	19.70	19.74	21.0	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.71	19.68	19.81	21.0	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.71	19.70	19.77	21.0	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.71	19.68	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.70	19.72	19.72	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.62	19.78	19.81	21.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	Pi2 BPSK	1	1	16.56				17.5	0.0
100	Pi2 BPSK	1	137	16.57					
100	Pi2 BPSK	1	271	16.61					
100	Pi2 BPSK	136	0	16.60			17.5	0.0	0.0
100	Pi2 BPSK	136	69	16.54			17.5		
100	Pi2 BPSK	136	138	16.61			17.5		
100	Pi2 BPSK	270	0	16.67			17.5	0.0	0.0
100	QPSK	1	1	16.68					
100	QPSK	1	137	16.56					
100	QPSK	1	271	16.53			17.5	0.0	0.0
100	QPSK	136	0	16.62					
100	QPSK	136	69	16.63			17.5		
100	QPSK	136	138	16.58			17.5	0.0	0.0
100	QPSK	270	0	16.62			17.5		
100	16QAM	1	1	16.64			17.5		
100	16QAM	1	1	16.63			17.5	0.0	0.0
100	256QAM	1	1	16.58			17.5		
Channel									
Frequency (MHz)				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.66	16.63	16.59	17.5	0.0	
Channel									
Frequency (MHz)				3746.01	375000	3769.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.53	16.65	16.55	17.5	0.0	
Channel									
Frequency (MHz)				6494.01	650000	650600	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.61	16.65	16.55	17.5	0.0	
Channel									
Frequency (MHz)				3730.02	3750	3769.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.58	16.58	16.56	17.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650996	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.60	16.63	16.54	17.5	0.0	
Channel									
Frequency (MHz)				649600	650000	650300	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.62	16.57	16.64	17.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.54	16.59	16.60	17.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.62	16.57	16.65	17.5	0.0	
Channel									
Frequency (MHz)				647101	650000	652999	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.66	16.66	16.58	17.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.66	16.67	16.59	17.5	0.0	

Par270 n78_Ant 4_HPUE												
BW [MHz]	Modulation	RB 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	16.56	3750			17.5	0.0			
100	Pi2 BPSK	1	137	16.57								
100	Pi2 BPSK	1	271	16.61								
100	Pi2 BPSK	136	0	16.60			17.5	0.0	0.0			
100	Pi2 BPSK	136	69	16.54			17.5					
100	Pi2 BPSK	136	138	16.61			17.5					
100	Pi2 BPSK	270	0	16.67			17.5	0.0	0.0			
100	QPSK	1	1	16.68								
100	QPSK	1	137	16.56								
100	QPSK	1	271	16.53			17.5	0.0	0.0			
100	QPSK	136	0	16.62								
100	QPSK	136	69	16.63			17.5					
100	QPSK	136	138	16.58			17.5	0.0	0.0			
100	QPSK	270	0	16.62			17.5					
100	16QAM	1	1	16.64			17.5					
100	16QAM	1	1	16.63			17.5	0.0	0.0			
100	256QAM	1	1	16.58			17.5					
Channel												
Frequency (MHz)												
90	QPSK	1	1	16.66	16.63	16.59	17.5	0.0				
Channel												
Frequency (MHz)												
80	QPSK	1	1	3746.01	3750	3759.99		0.0				
Channel												
Frequency (MHz)												
70	QPSK	1	1	16.53	16.65	16.55	17.5	0.0				
Channel												
Frequency (MHz)												
60	QPSK	1	1	3739.02	3750	3759.98		0.0				
Channel												
Frequency (MHz)												
50	QPSK	1	1	16.58	16.58	16.56	17.5	0.0				
Channel												
Frequency (MHz)												
40	QPSK	1	1	16.54	16.59	16.60	17.5	0.0				
Channel												
Frequency (MHz)												
30	QPSK	1	1	16.62	16.57	16.65	17.5	0.0				
Channel												
Frequency (MHz)												
20	QPSK	1	1	16.62	16.57	16.65	17.5	0.0				
Channel												
Frequency (MHz)												
15	QPSK	1	1	16.66	16.66	16.66	17.5	0.0				
Channel												
Frequency (MHz)												
10	QPSK	1	1	16.66	16.67	16.59	17.5	0.0				
Channel												
Frequency (MHz)												



Part27Q n78_Ant 4											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				633332		3499.98					
Frequency (MHz)				16.59							
100	PQ2 BPSK	1	1		16.59		17.5	0.0			
100	PQ2 BPSK	1	137		16.55						
100	PQ2 BPSK	1	271		16.56						
100	PQ2 BPSK	135	0		16.61		17.5	0.0			
100	PQ2 BPSK	135	69		16.51						
100	PQ2 BPSK	135	138		16.51						
100	PQ2 BPSK	270	0		16.54		17.5	0.0			
100	QPSK	1	1		16.64						
100	QPSK	1	137		16.57						
100	QPSK	1	271		16.63		17.5	0.0			
100	QPSK	135	0		16.50						
100	QPSK	135	69		16.59						
100	QPSK	135	138		16.52		17.5	0.0			
100	QPSK	270	0		16.56						
100	16QAM	1	1		16.52						
100	64QAM	1	1		16.59						
100	256QAM	1	1		16.49						
Channel				633000		633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495		3499.98	3504.99				
90	QPSK	1	1		16.63	16.54	16.59				
Channel				630668		633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02		3499.98	3510				
80	QPSK	1	1		16.58	16.60	16.53				
Channel				633334		633332	633332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3495.01		3499.98	3514.98				
70	QPSK	1	1		16.54	16.59	16.54				
Channel				632000		633332	634666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3494		3499.98	3518.99				
60	QPSK	1	1		16.56	16.61	16.63				
Channel				631668		633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3493.02		3499.98	3524				
50	QPSK	1	1		16.50	16.55	16.56				
Channel				631334		633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01		3499.98	3529.98				
40	QPSK	1	1		16.62	16.61	16.57				
Channel				631000		633332	637666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3489		3499.98	3534.99				
30	QPSK	1	1		16.56	16.62	16.61				
Channel				630668		633332	638000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480.02		3499.98	3540				
20	QPSK	1	1		16.61	16.59	16.61				
Channel				630000		633332	639666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3472.5		3499.98	3542.99				
15	QPSK	1	1		16.51	16.61	16.50				
Channel				630334		633332	638332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3453.01		3499.98	3544.98				
10	QPSK	1	1		16.56	16.61	16.62				

Part27Q n78_Ant 4_HPUE											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)			
Channel				633332		3493.98					
Frequency (MHz)				16.59							
100	PQ2 BPSK	1	1		16.59		17.5	0.0			
100	PQ2 BPSK	1	137		16.55						
100	PQ2 BPSK	1	271		16.56						
100	PQ2 BPSK	135	0		16.61		17.5	0.0			
100	PQ2 BPSK	135	69		16.51						
100	PQ2 BPSK	135	138		16.51						
100	PQ2 BPSK	270	0		16.54		17.5	0.0			
100	QPSK	1	1		16.64						
100	QPSK	1	137		16.57						
100	QPSK	1	271		16.63		17.5	0.0			
100	QPSK	135	0		16.50						
100	QPSK	135	69		16.59						
100	QPSK	135	138		16.52		17.5	0.0			
100	QPSK	270	0		16.56						
100	16QAM	1	1		16.52		17.5 0.0				
100	64QAM	1	1		16.59		17.5 0.0				
100	256QAM	1	1		16.49		17.5 0.0				
Channel				633000		633332	633666	Tune-up limit	MPR		
Frequency (MHz)				3495		3499.98	3504.99	(dbm)	(dB)		
90	QPSK	1	1		16.63	16.54	16.59	17.5 0.0			
Channel				632668		633332	634000	Tune-up limit	MPR		
Frequency (MHz)				3490.02		3499.98	3510	(dbm)	(dB)		
80	QPSK	1	1		16.58	16.60	16.53	17.5 0.0			
Channel				633334		633332	633332	Tune-up limit	MPR		
Frequency (MHz)				3495.01		3499.98	3514.98	(dbm)	(dB)		
70	QPSK	1	1		16.54	16.59	16.54	17.5 0.0			
Channel				632000		633332	634666	Tune-up limit	MPR		
Frequency (MHz)				3494		3499.98	3518.99	(dbm)	(dB)		
60	QPSK	1	1		16.56	16.61	16.63	17.5 0.0			
Channel				631668		633332	635000	Tune-up limit	MPR		
Frequency (MHz)				3493.02		3499.98	3524	(dbm)	(dB)		
50	QPSK	1	1		16.50	16.55	16.56	17.5 0.0			
Channel				631334		633332	636332	Tune-up limit	MPR		
Frequency (MHz)				3470.01		3499.98	3529.98	(dbm)	(dB)		
40	QPSK	1	1		16.62	16.61	16.57	17.5 0.0			
Channel				631000		633332	637666	Tune-up limit	MPR		
Frequency (MHz)				3489		3499.98	3534.99	(dbm)	(dB)		
30	QPSK	1	1		16.56	16.62	16.61	17.5 0.0			
Channel				630668		633332	638000	Tune-up limit	MPR		
Frequency (MHz)				3480.02		3499.98	3540	(dbm)	(dB)		
20	QPSK	1	1		16.61	16.59	16.61	17.5 0.0			
Channel				630000		633332	639666	Tune-up limit	MPR		
Frequency (MHz)				3472.5		3499.98	3542.99	(dbm)	(dB)		
15	QPSK	1	1		16.51	16.61	16.50	17.5 0.0			
Channel				630334		633332	638332	Tune-up limit	MPR		
Frequency (MHz)				3453.01		3499.98	3544.98	(dbm)	(dB)		
10	QPSK	1	1		16.58	16.61	16.62	17.5 0.0			

Par270 n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				Frequency (MHz)		3750			
100	PI2 BPSK	1	1		14.20				
100	PI2 BPSK	1	137		14.21		15.5	0.0	
100	PI2 BPSK	1	271		14.28				
100	PI2 BPSK	135	0		14.21		15.5	0.0	
100	PI2 BPSK	135	69		14.29		15.5	0.0	
100	PI2 BPSK	135	138		14.25		15.5	0.0	
100	PI2 BPSK	270	0		14.28				
100	QPSK	1	1		14.25				
100	QPSK	1	137		14.27		15.5	0.0	
100	QPSK	1	271		14.23				
100	QPSK	135	0		14.31				
100	QPSK	135	69		14.32		15.5	0.0	
100	QPSK	135	138		14.23				
100	QPSK	270	0		14.29		15.5	0.0	
100	16QAM	1	1		14.28		15.5	0.0	
100	64QAM	1	1		14.28		15.5	0.0	
100	256QAM	1	1		14.29		15.5	0.0	
Channel				649698	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1		14.23	14.32	14.29	15.5	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1		14.29	14.34	14.31	15.5	0.0
Channel				649500	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		14.23	14.26	14.33	15.5	0.0
Channel				649698	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3750	3769.98			
60	QPSK	1	1		14.29	14.32	14.28	15.5	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1		14.22	14.32	14.31	15.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		14.25	14.34	14.29	15.5	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3784.98			
30	QPSK	1	1		14.29	14.23	14.28	15.5	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1		14.26	14.31	14.30	15.5	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.55	3750	3792.48			
15	QPSK	1	1		14.31	14.26	14.20	15.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		14.27	14.26	14.21	15.5	0.0

Par270 n78_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				Frequency (MHz)		3750			
100	PI2 BPSK	1	1		14.20				
100	PI2 BPSK	1	137		14.21		15.5	0.0	
100	PI2 BPSK	1	271		14.28				
100	PI2 BPSK	135	0		14.21		15.5	0.0	
100	PI2 BPSK	135	69		14.29		15.5	0.0	
100	PI2 BPSK	135	138		14.25		15.5	0.0	
100	PI2 BPSK	270	0		14.28				
100	QPSK	1	1		14.25				
100	QPSK	1	137		14.27		15.5	0.0	
100	QPSK	1	271		14.23				
100	QPSK	135	0		14.31				
100	QPSK	135	69		14.32		15.5	0.0	
100	QPSK	135	138		14.23				
100	QPSK	270	0		14.29		15.5	0.0	
100	16QAM	1	1		14.28		15.5	0.0	
100	64QAM	1	1		14.28		15.5	0.0	
100	256QAM	1	1		14.29		15.5	0.0	
Channel				649698	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1		14.23	14.32	14.29	15.5	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1		14.29	14.34	14.31	15.5	0.0
Channel				649500	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		14.23	14.26	14.33	15.5	0.0
Channel				649698	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.00	3750	3769.98			
60	QPSK	1	1		14.29	14.32	14.28	15.5	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1		14.22	14.32	14.31	15.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		14.25	14.34	14.29	15.5	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3784.98			
30	QPSK	1	1		14.29	14.23	14.28	15.5	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3789.99			
20	QPSK	1	1		14.26	14.31	14.30	15.5	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.55	3750	3792.48			
15	QPSK	1	1		14.31	14.26	14.20	15.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		14.27	14.26	14.21	15.5	0.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332		
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	14.19			
100	PI2 BPSK	1	137	14.27		15.5	0.0
100	PI2 BPSK	1	271	14.20			
100	PI2 BPSK	135	0	14.22		15.5	0.0
100	PI2 BPSK	135	69	14.21		15.5	0.0
100	PI2 BPSK	135	138	14.22			
100	PI2 BPSK	270	0	14.21		15.5	0.0
100	QPSK	1	1	14.33			
100	QPSK	1	137	14.31		15.5	0.0
100	QPSK	1	271	14.27			
100	QPSK	135	0	14.22			
100	QPSK	135	69	14.29		15.5	0.0
100	QPSK	135	138	14.21			
100	QPSK	270	0	14.28		15.5	0.0
100	16QAM	1	1	14.28		15.5	0.0
100	64QAM	1	1	14.19		15.5	0.0
100	256QAM	1	1	14.22		15.5	0.0
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.98	
90	QPSK	1	1	14.26	14.27	14.19	15.5 0.0
Channel				632668	633332	634000	
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	14.32	14.27	14.18	15.5 0.0
Channel				632336	633332	633332	
Frequency (MHz)				3485.01	3499.98	3514.98	
70	QPSK	1	1	14.27	14.28	14.28	15.5 0.0
Channel				632000	633332	634666	
Frequency (MHz)				3480	3499.98	3518.99	
60	QPSK	1	1	14.22	14.31	14.19	15.5 0.0
Channel				631668	633332	635000	
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	14.18	14.22	14.24	15.5 0.0
Channel				631334	633332	635332	
Frequency (MHz)				3470.01	3499.98	3529.98	
40	QPSK	1	1	14.22	14.20	14.19	15.5 0.0
Channel				631000	633332	635666	
Frequency (MHz)				3465	3499.98	3534.99	
30	QPSK	1	1	14.20	14.23	14.21	15.5 0.0
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	QPSK	1	1	14.19	14.24	14.26	15.5 0.0
Channel				630300	633332	636366	
Frequency (MHz)				3457.5	3499.98	3542.49	
15	QPSK	1	1	14.30	14.25	14.21	15.5 0.0
Channel				630004	633332	636666	
Frequency (MHz)				3452.01	3499.98	3544.98	
10	QPSK	1	1	14.25	14.25	14.32	15.5 0.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332		
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	14.19			
100	PI2 BPSK	1	137	14.27		15.5	0.0
100	PI2 BPSK	1	271	14.20			
100	PI2 BPSK	135	0	14.22		15.5	0.0
100	PI2 BPSK	135	69	14.21		15.5	0.0
100	PI2 BPSK	135	138	14.22			
100	PI2 BPSK	270	0	14.21		15.5	0.0
100	QPSK	1	1	14.33			
100	QPSK	1	137	14.31		15.5	0.0
100	QPSK	1	271	14.27			
100	QPSK	135	0	14.22			
100	QPSK	135	69	14.29		15.5	0.0
100	QPSK	135	138	14.21			
100	QPSK	270	0	14.28		15.5	0.0
100	16QAM	1	1	14.28		15.5	0.0
100	64QAM	1	1	14.19		15.5	0.0
100	256QAM	1	1	14.22		15.5	0.0
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.98	
90	QPSK	1	1	14.26	14.27	14.19	15.5 0.0
Channel				632668	633332	634000	
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	14.32	14.27	14.18	15.5 0.0
Channel				632336	633332	633332	
Frequency (MHz)				3485.01	3499.98	3514.98	
70	QPSK	1	1	14.27	14.28	14.28	15.5 0.0
Channel				632000	633332	634666	
Frequency (MHz)				3480	3499.98	3518.99	
60	QPSK	1	1	14.22	14.31	14.19	15.5 0.0
Channel				631668	633332	635000	
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	14.18	14.22	14.24	15.5 0.0
Channel				631334	633332	635332	
Frequency (MHz)				3470.01	3499.98	3529.98	
40	QPSK	1	1	14.22	14.20	14.19	15.5 0.0
Channel				631000	633332	635666	
Frequency (MHz)				3465	3499.98	3534.99	
30	QPSK	1	1	14.20	14.23	14.21	15.5 0.0
Channel				630668	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	QPSK	1	1	14.19	14.24	14.26	15.5 0.0
Channel				630300	633332	636366	
Frequency (MHz)				3457.5	3499.98	3542.49	
15	QPSK	1	1	14.30	14.25	14.21	15.5 0.0
Channel				630004	633332	636666	
Frequency (MHz)				3452.01	3499.98	3544.98	
10	QPSK	1	1	14.25	14.25	14.32	15.5 0.0



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modula Ch. / Freq. (600000)	Power High Ch. / Freq. (600000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.53	15.53		
100	PI2 BPSK	1	137	15.47	15.47	17.0	0.0
100	PI2 BPSK	1	271	15.50			
100	PI2 BPSK	135	0	15.44	15.44	17.0	0.0
100	PI2 BPSK	135	69	15.50	15.50	17.0	0.0
100	PI2 BPSK	135	138	15.48	15.48	17.0	0.0
100	PI2 BPSK	270	0	15.48	15.48		
100	QPSK	1	1	15.58	15.58		
100	QPSK	1	137	15.44	15.44	17.0	0.0
100	QPSK	1	271	15.43			
100	QPSK	135	0	15.45	15.45		
100	QPSK	135	69	15.51	15.51	17.0	0.0
100	QPSK	135	138	15.46	15.46		
100	QPSK	270	0	15.43	15.43	17.0	0.0
100	16QAM	1	1	15.55	15.55	17.0	0.0
100	64QAM	1	1	15.52	15.52	17.0	0.0
100	256QAM	1	1	15.53	15.53	17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.44	15.55	15.47	17.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.48	15.47	15.53	17.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.41	15.44	15.47	17.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.56	15.43	15.47	17.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.44	15.57	15.56	17.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.51	15.50	15.49	17.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.48	15.56	15.55	17.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.46	15.44	15.44	17.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.54	15.53	15.51	17.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.51	15.52	15.47	17.0 0.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modula Ch. / Freq. (600000)	Power High Ch. / Freq. (600000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.53	15.53		
100	PI2 BPSK	1	137	15.47	15.47	17.0	0.0
100	PI2 BPSK	1	271	15.50			
100	PI2 BPSK	135	0	15.44	15.44	17.0	0.0
100	PI2 BPSK	135	69	15.50	15.50	17.0	0.0
100	PI2 BPSK	135	138	15.48	15.48	17.0	0.0
100	PI2 BPSK	270	0	15.48	15.48		
100	QPSK	1	1	15.58	15.58		
100	QPSK	1	137	15.44	15.44	17.0	0.0
100	QPSK	1	271	15.43			
100	QPSK	135	0	15.45	15.45		
100	QPSK	135	69	15.51	15.51	17.0	0.0
100	QPSK	135	138	15.46	15.46		
100	QPSK	270	0	15.43	15.43	17.0	0.0
100	16QAM	1	1	15.55	15.55	17.0	0.0
100	64QAM	1	1	15.52	15.52	17.0	0.0
100	256QAM	1	1	15.53	15.53	17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.44	15.55	15.47	17.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.48	15.47	15.53	17.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.41	15.44	15.47	17.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.56	15.43	15.47	17.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.44	15.57	15.56	17.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.51	15.50	15.49	17.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.48	15.56	15.55	17.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.46	15.44	15.44	17.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.54	15.53	15.51	17.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.51	15.52	15.47	17.0 0.0



Part27Q n78_Ant 8									
BW [MHz]	Modulation	RB 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	3469.98	14.82		16.0	0.0	
100	Pi2 BPSK	1	137	14.89					
100	Pi2 BPSK	1	271	14.86					
100	Pi2 BPSK	136	0	14.89			16.0	0.0	
100	Pi2 BPSK	136	69	14.80			16.0	0.0	
100	Pi2 BPSK	136	136	14.82			16.0	0.0	
100	Pi2 BPSK	270	0	14.84			16.0	0.0	
100	QPSK	1	1	14.92					
100	QPSK	1	137	14.98					
100	QPSK	1	271	14.86			16.0	0.0	
100	QPSK	136	0	14.84			16.0	0.0	
100	QPSK	136	69	14.85					
100	QPSK	136	136	14.78					
100	QPSK	270	0	14.80			16.0	0.0	
100	16QAM	1	1	14.80			16.0	0.0	
100	64QAM	1	1	14.86			16.0	0.0	
100	256QAM	1	1	14.84			16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.86	14.90	14.88	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.88	14.99	14.81	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.87	14.98	14.84	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.81	14.81	14.81	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.87	14.80	14.83	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.85	14.83	14.84	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.83	14.80	14.88	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.89	14.83	14.81	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.90	14.86	14.83	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.91	14.81	14.87	16.0	0.0	

Part27Q n78_Ant 8_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3469.98					
100	Pi2 BPSK	1	1	15.44			17.0	0.0	
100	Pi2 BPSK	1	137	15.46					
100	Pi2 BPSK	1	271	15.51					
100	Pi2 BPSK	136	0	15.54			17.0	0.0	
100	Pi2 BPSK	136	69	15.52			17.0	0.0	
100	Pi2 BPSK	136	136	15.48			17.0	0.0	
100	Pi2 BPSK	270	0	15.50			17.0	0.0	
100	QPSK	1	1	15.55					
100	QPSK	1	137	15.40					
100	QPSK	1	271	15.48			17.0	0.0	
100	QPSK	136	0	15.40			17.0	0.0	
100	QPSK	136	69	15.50					
100	QPSK	136	136	15.46					
100	QPSK	270	0	15.45			17.0	0.0	
100	16QAM	1	1	15.51			17.0	0.0	
100	64QAM	1	1	15.49			17.0	0.0	
100	256QAM	1	1	15.40			17.0	0.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.42	15.48	15.50	17.0	0.0	
Channel									
Frequency (MHz)				630668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3460.02	3469.98	3510	17.0	0.0	
Channel									
Frequency (MHz)				3468.01	3469.98	3474.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.53	15.51	15.42	17.0	0.0	
Channel									
Frequency (MHz)				3480	3469.98	3519.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.47	15.49	15.40	17.0	0.0	
Channel									
Frequency (MHz)				341668	633332	630000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3475.02	3469.98	3420	17.0	0.0	
Channel									
Frequency (MHz)				3475.01	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.44	15.54	15.45	17.0	0.0	
Channel									
Frequency (MHz)				631000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3465	3469.98	3524.98	17.0	0.0	
Channel									
Frequency (MHz)				630668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3460.02	3469.98	3540	17.0	0.0	
Channel									
Frequency (MHz)				3460.01	3469.98	3542.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.41	15.45	15.48	17.0	0.0	
Channel									
Frequency (MHz)				630500	633332	635332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	3465.01	3469.98	3544.98	17.0	0.0	
Channel									
Frequency (MHz)				3465.01	3469.98	3547.00	Tune-up limit (dBm)	MPR (dB)	

Par27O n78_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	17.70	3750		19.0	0.0	
100	Pi2 BPSK	1	137	17.71					
100	Pi2 BPSK	1	271	17.77					
100	Pi2 BPSK	136	0	17.72			19.0	0.0	
100	Pi2 BPSK	136	69	17.63			19.0	0.0	
100	Pi2 BPSK	136	136	17.77			19.0	0.0	
100	Pi2 BPSK	270	0	17.73			19.0	0.0	
100	QPSK	1	1	17.78					
100	QPSK	1	137	17.66					
100	QPSK	1	271	17.83			19.0	0.0	
100	QPSK	136	0	17.65			19.0	0.0	
100	QPSK	136	69	17.70					
100	QPSK	136	136	17.68					
100	QPSK	270	0	17.68			19.0	0.0	
100	16QAM	1	1	17.72			19.0	0.0	
100	64QAM	1	1	17.73			19.0	0.0	
100	256QAM	1	1	17.63			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.71	66969	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.75	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.75	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.75	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.75	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.75	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.77	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.77	3750	65000	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.70	17.66	17.68	19.0	0.0	



Par270 n78_Ant 10_HPUE								
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	19.66	19.66		21.0	0.0
100	PQ2 BPSK	1	137	19.72				
100	PQ2 BPSK	1	271	19.66				
100	PQ2 BPSK	135	0	19.67			21.0	0.0
100	PQ2 BPSK	135	69	19.67			21.0	0.0
100	PQ2 BPSK	135	138	19.69			21.0	0.0
100	PQ2 BPSK	270	0	19.69				
100	QPSK	1	1	19.73			21.0	0.0
100	QPSK	1	137	19.59				
100	QPSK	1	271	19.67				
100	QPSK	135	0	19.80			21.0	0.0
100	QPSK	135	69	19.72				
100	QPSK	135	138	19.65				
100	QPSK	270	0	19.70			21.0	0.0
100	16QAM	1	1	19.70			21.0	0.0
100	64QAM	1	1	19.63			21.0	0.0
100	256QAM	1	1	19.05			20.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.62	19.67	19.63	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.59	19.64	19.63	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.71	19.69	19.61	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.71	19.65	19.64	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.58	19.72	19.65	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.61	19.69	19.61	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.70	19.70	19.67	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.71	19.59	19.60	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.71	19.68	19.58	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.68	19.71	19.68	21.0	0.0

Part27Q n78_Ant 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3496.98				
100	PQ2 BPSK	1	1	17.79			19.0	0.0
100	PQ2 BPSK	1	137	17.77				
100	PQ2 BPSK	1	271	17.81				
100	PQ2 BPSK	135	0	17.77			19.0	0.0
100	PQ2 BPSK	135	69	17.82			19.0	0.0
100	PQ2 BPSK	135	138	17.77			19.0	0.0
100	PQ2 BPSK	270	0	17.82				
100	QPSK	1	1	17.84			19.0	0.0
100	QPSK	1	137	17.78				
100	QPSK	1	271	17.75				
100	QPSK	135	0	17.76			19.0	0.0
100	QPSK	135	69	17.83				
100	QPSK	135	138	17.82				
100	QPSK	270	0	17.71			19.0	0.0
100	16QAM	1	1	17.77			19.0	0.0
100	64QAM	1	1	17.72			19.0	0.0
100	256QAM	1	1	17.78			19.0	0.0
Channel								
Frequency (MHz)				633000	633352	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	17.80	17.76	17.81	19.0	0.0
Channel								
Frequency (MHz)				630698	633352	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.82	17.76	17.80	19.0	0.0
Channel								
Frequency (MHz)				3496.02	3496.98	3500.00	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	17.78	17.76	17.77	19.0	0.0
Channel								
Frequency (MHz)				3497.02	3497.98	3500.00	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.82	17.83	17.80	19.0	0.0
Channel								
Frequency (MHz)				630000	633352	633668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.72	17.76	17.81	19.0	0.0
Channel								
Frequency (MHz)				631698	633352	635000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.80	17.76	17.77	19.0	0.0
Channel								
Frequency (MHz)				3495.02	3496.98	3500.00	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.79	17.82	17.72	19.0	0.0
Channel								
Frequency (MHz)				631354	633352	635352	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.78	17.73	17.74	19.0	0.0
Channel								
Frequency (MHz)				631000	633352	636668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.82	17.70	17.71	19.0	0.0
Channel								
Frequency (MHz)				630698	633352	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.75	17.75	17.83	19.0	0.0
Channel								
Frequency (MHz)				3495.05	3496.98	3500.00	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.78	17.77	17.72	19.0	0.0
Channel								
Frequency (MHz)				3495.01	3495.98	3500.00	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.78	17.69	17.73	19.0	0.0

Part27Q n78_Ant 10_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3409.18				
100	PQ2 BPSK	1	1	19.63			21.0	0.0
100	PQ2 BPSK	1	137	19.76				
100	PQ2 BPSK	1	271	19.64				
100	PQ2 BPSK	135	0	19.65			21.0	0.0
100	PQ2 BPSK	135	69	19.65			21.0	0.0
100	PQ2 BPSK	135	138	19.64			21.0	0.0
100	PQ2 BPSK	270	0	19.64				
100	QPSK	1	1	19.77			21.0	0.0
100	QPSK	1	137	19.75				
100	QPSK	1	271	19.68				
100	QPSK	135	0	19.72			21.0	0.0
100	QPSK	135	69	19.75				
100	QPSK	135	138	19.68				
100	QPSK	270	0	19.63			21.0	0.0
100	16QAM	1	1	19.73			21.0	0.0
100	64QAM	1	1	19.63			21.0	0.0
100	256QAM	1	1	19.28			20.5	0.5
Channel								
Frequency (MHz)				633000				
90	QPSK	1	1	19.69	19.64	19.71	21.0	0.0
Channel								
Frequency (MHz)				630698				
80	QPSK	1	1	19.63	19.62	19.63	21.0	0.0
Channel								
Frequency (MHz)				63465.01				
70	QPSK	1	1	19.64	19.64	19.71	21.0	0.0
Channel								
Frequency (MHz)				632000				
60	QPSK	1	1	19.76	19.75	19.65	21.0	0.0
Channel								
Frequency (MHz)				631998				
50	QPSK	1	1	19.72	19.72	19.73	21.0	0.0
Channel								
Frequency (MHz)				63147.11				
40	QPSK	1	1	19.65	19.67	19.62	21.0	0.0
Channel								
Frequency (MHz)				631000				
30	QPSK	1	1	19.63	19.66	19.69	21.0	0.0
Channel								
Frequency (MHz)				630698				
20	QPSK	1	1	19.63	19.66	19.69	21.0	0.0
Channel								
Frequency (MHz)				63459.00				
15	QPSK	1	1	19.70	19.70	19.68	21.0	0.0
Channel								
Frequency (MHz)				63232.34				
10	QPSK	1	1	19.76	19.64	19.73	21.0	0.0



Reduced Power Mode for DSI3

n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	16.59	16.76	16.70	18.0	0.0	
20	PI2 BPSK	1	53	16.70	16.73	16.62			
20	PI2 BPSK	1	104	16.48	16.58	16.66			
20	PI2 BPSK	50	5	16.49	16.68	16.44	18.0	0.0	
20	PI2 BPSK	50	28	16.81	16.74	16.81	18.0	0.0	
20	PI2 BPSK	50	56	16.54	16.56	16.65	18.0	0.0	
20	PI2 BPSK	100	0	16.56	16.72	16.64	18.0	0.0	
20	QPSK	1	1	16.77	16.88	16.75			
20	QPSK	1	53	16.64	16.73	16.57			
20	QPSK	1	104	16.60	16.62	16.64	18.0	0.0	
20	QPSK	50	0	16.82	16.87	16.80			
20	QPSK	50	28	16.53	16.81	16.66			
20	QPSK	50	56	16.52	16.60	16.61	18.0	0.0	
20	QPSK	100	0	16.88	16.73	16.57	18.0	0.0	
20	16QAM	1	1	16.88	16.84	16.61	18.0	0.0	
20	64QAM	1	1	16.74	16.75	16.51	18.0	0.0	
20	256QAM	1	1	16.50	16.57	16.59	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.87	16.78	16.62	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.84	16.79	16.64	18.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.63	16.84	16.74	18.0	0.0	

n2_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	PI2 BPSK	1	1	15.83	15.81	15.58	17.5	0.0			
20	PI2 BPSK	1	53	15.62	15.63	15.57					
20	PI2 BPSK	1	104	15.56	15.60	15.65					
20	PI2 BPSK	50	5	15.62	15.68	15.54	17.5	0.0			
20	PI2 BPSK	50	28	15.81	15.68	15.60	17.5	0.0			
20	PI2 BPSK	50	56	15.58	15.60	15.61	17.5	0.0			
20	PI2 BPSK	100	0	15.53	15.66	15.59	17.5	0.0			
20	QPSK	1	1	15.64	15.74	15.68					
20	QPSK	1	53	15.55	15.62	15.61					
20	QPSK	1	104	15.56	15.65	15.51	17.5	0.0			
20	QPSK	50	0	15.55	15.64	15.51					
20	QPSK	50	28	15.58	15.73	15.58					
20	QPSK	50	56	15.54	15.51	15.55	17.5	0.0			
20	QPSK	100	0	15.60	15.66	15.55	17.5	0.0			
20	16QAM	1	1	15.57	15.71	15.60	17.5	0.0			
20	64QAM	1	1	15.58	15.64	15.67	17.5	0.0			
20	256QAM	1	1	15.57	15.62	15.64	17.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	15.51	15.73	15.54	17.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	15.58	15.67	15.57	17.5	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	15.52	15.69	15.64	17.5	0.0			

n5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0			
20	PI2 BPSK	1	53	22.88	22.84	22.79					
20	PI2 BPSK	1	104	22.81	22.90	22.79					
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0			
20	PI2 BPSK	50	28	22.93	22.96	22.85	24.0	0.0			
20	PI2 BPSK	50	56	22.90	22.86	22.78	24.0	0.0			
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0			
20	QPSK	1	1	22.92	22.97	22.80					
20	QPSK	1	53	22.81	22.78	22.73					
20	QPSK	1	104	22.83	22.79	22.72	24.0	0.0			
20	QPSK	50	0	22.76	22.77	22.75					
20	QPSK	50	28	22.75	22.81	22.76					
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0			
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0			
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0			
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0			

n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	838			
20	P12 BPSK	1	1	22.70	22.72	22.63			
20	P12 BPSK	1	53	22.67	22.75	22.68	24.0		
20	P12 BPSK	1	104	22.70	22.73	22.63			
20	P12 BPSK	50	0	22.60	22.71	22.52	24.0		
20	P12 BPSK	50	26	22.67	22.75	22.60	24.0		
20	P12 BPSK	50	56	22.56	22.71	22.58			
20	P12 BPSK	100	0	22.56	22.64	22.55	24.0		
20	QPSK	1	1	22.73	22.76	22.65			
20	QPSK	1	53	22.61	22.66	22.50	24.0		
20	QPSK	1	104	22.57	22.68	22.50			
20	QPSK	50	0	22.61	22.66	22.52	24.0		
20	QPSK	50	26	22.62	22.72	22.57	24.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0		
20	QPSK	100	0	22.60	22.64	22.49			
20	64QAM	1	1	22.63	22.61	22.65	24.0		
20	64QAM	1	1	21.34	21.45	21.37	22.5		
20	256QAM	1	1	19.33	19.36	19.28	20.5		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.66	22.73	22.55	24.0		
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.63	22.73	22.50	24.0		
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	22.63	22.72	22.49	24.0		

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	19.47	19.48	19.43			
40	P12 BPSK	1	108	19.41	19.43	19.40	20.5		
40	P12 BPSK	1	214	19.47	19.47	19.47			
40	P12 BPSK	108	0	19.45	19.46	19.36	20.5		
40	P12 BPSK	108	54	19.35	19.49	19.43	20.5		
40	P12 BPSK	108	108	19.44	19.40	19.38			
40	P12 BPSK	216	0	19.44	19.49	19.35	20.5		
40	QPSK	1	1	19.48	19.52	19.50			
40	QPSK	1	108	19.43	19.42	19.42	20.5		
40	QPSK	1	214	19.46	19.46	19.42			
40	QPSK	108	0	19.40	19.37	19.40	20.5		
40	QPSK	108	54	19.47	19.48	19.45	20.5		
40	QPSK	108	108	19.40	19.44	19.39	20.5		
40	QPSK	216	0	19.43	19.46	19.43			
40	16QAM	1	1	19.41	19.41	19.44	20.5		
40	64QAM	1	1	19.46	19.42	19.44	20.5		
40	256QAM	1	1	18.62	18.65	18.76	19.5		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.43	19.40	19.43	20.5		
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2534	2557.5			
25	QPSK	1	1	19.45	19.40	19.35	20.5		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.34	19.41	19.49	20.5		
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.36	19.44	19.46	20.5		
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2566			
10	QPSK	1	1	19.39	19.41	19.46	20.5		
Channel				500000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.41	19.51	19.48	20.5		

n7_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	18.90	18.93	18.86			
40	P12 BPSK	1	108	18.82	18.95	18.91	20.0		
40	P12 BPSK	1	214	18.87	18.89	18.97			
40	P12 BPSK	108	0	18.90	18.95	18.93	20.0		
40	P12 BPSK	108	54	18.78	18.98	18.88	20.0		
40	P12 BPSK	108	108	18.81	18.91	18.84			
40	P12 BPSK	216	0	18.89	18.92	18.97	20.0		
40	QPSK	1	1	18.93	19.02	19.00			
40	QPSK	1	108	18.80	18.98	18.90	20.0		
40	QPSK	1	214	18.82	18.93	18.99			
40	QPSK	108	0	18.81	18.91	18.85	20.0		
40	QPSK	108	54	18.93	18.99	18.95	20.0		
40	QPSK	108	108	18.81	18.98	18.92	20.0		
40	QPSK	216	0	18.82	18.96	18.93			
40	16QAM	1	1	18.79	18.99	18.92	20.0		
40	64QAM	1	1	18.79	18.98	18.90	20.0		
40	256QAM	1	1	18.65	18.97	18.92	20.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.81	18.87	18.91	20.0		
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2534	2557.5			
25	QPSK	1	1	18.83	18.93	18.97	20.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.89	18.92	18.97	20.0		
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.92	18.83	18.88	20.0		
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2566			
10	QPSK	1	1	18.83	19.01	18.85	20.0		
Channel				500000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.83	18.89	18.90	20.0		

n12_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbs)	MPR (dbs)		
Channel										
Frequency (MHz)										
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77				
15	P12 BPSK	1	77	22.79	22.87	22.84				
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0			
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0			
15	P12 BPSK	75	0	22.74	22.85	22.71	24.0	0.0	0.0	
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.85	22.72				
15	QPSK	1	77	22.74	22.77	22.70	24.0	0.0	0.0	
15	QPSK	36	0	22.71	22.82	22.71				24.0
15	QPSK	36	22	22.71	22.83	22.73				24.0
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.76	22.83	22.76	24.0			
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5			
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	0.0	
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	0.0	
Channel										
Frequency (MHz)										

n12_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)				706.4	707.5	708.5					
15	P12 BPSK	1	1	23.31	23.36	23.34	24.0	0.0	0.0		
15	P12 BPSK	1	40	23.23	23.31	23.23					
15	P12 BPSK	1	77	23.26	23.33	23.31					
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0	0.0	0.0		
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0				
15	P12 BPSK	36	43	23.11	23.24	23.17	24.0				
15	P12 BPSK	75	0	23.21	23.30	23.17		24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30					
15	QPSK	1	40	23.15	23.22	23.19					
15	QPSK	1	77	23.11	23.27	23.18		24.0	0.0		
15	QPSK	36	0	23.13	23.21	23.22	24.0				
15	QPSK	36	22	23.21	23.26	23.24	24.0				
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23					
15	16QAM	1	1	23.19	23.32	23.15	24.0				
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5				
Channel											
Frequency (MHz)				704	707.5	711					
10	QPSK	1	1	22.75	22.66	22.65	24.0	0.0	0.0		
Channel											
Frequency (MHz)				1400.00	1410.00	1420.00					
5	QPSK	1	1	22.73	22.67	22.62	24.0				

n14_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1		22.92			24.0	0.0
10	P12 BPSK	1	26		22.91				
10	P12 BPSK	1	50		22.89				
10	P12 BPSK	25	0		22.92		24.0	0.0	0.0
10	P12 BPSK	25	14		22.91		24.0		
10	P12 BPSK	25	27		22.92		24.0		
10	P12 BPSK	50	0		22.89			24.0	0.0
10	QPSK	1	1		22.93				
10	QPSK	1	26		22.94		24.0		
10	QPSK	1	50		22.89			24.0	0.0
10	QPSK	25	0		22.93		24.0		
10	QPSK	25	14		22.95		24.0		
10	QPSK	25	27		22.90		24.0	0.0	0.0
10	QPSK	50	0		22.84		24.0		
10	16QAM	1	1		22.89		24.0		
10	64QAM	1	1		22.22		23.0	1.0	1.0
10	256QAM	1	1		20.05		21.0		
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	0.0



n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				793					
Frequency (MHz)				22.60					
10	PI2 BPSK	1	1		22.60		24.0	0.0	
10	PI2 BPSK	1	26		22.54				
10	PI2 BPSK	1	50		22.54				
10	PI2 BPSK	25	0		22.51		24.0	0.0	
10	PI2 BPSK	25	14		22.53		24.0	0.0	
10	PI2 BPSK	25	27		22.49		24.0	0.0	
10	PI2 BPSK	50	0		22.51				
10	QPSK	1	1		22.62				
10	QPSK	1	26		22.50		24.0	0.0	
10	QPSK	1	50		22.55				
10	QPSK	25	0		22.49		24.0	0.0	
10	QPSK	25	14		22.57		24.0	0.0	
10	QPSK	25	27		22.50		24.0	0.0	
10	QPSK	50	0		22.54				
10	64QAM	1	1		22.49		24.0	0.0	
10	64QAM	1	1		22.00		23.0	1.0	
10	256QAM	1	1		19.89		21.0	3.0	
Channel				154180	158690	159100	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				793.5	793	793.5			
5	QPSK	1	1		22.52	22.51	22.58	24.0	0.0

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374000	376000	379000			
Frequency (MHz)				1870	1892.5	1895			
40	PI2 BPSK	1	1		18.70	18.88	18.71		
40	PI2 BPSK	1	108		18.74	18.83	18.63		
40	PI2 BPSK	1	214		18.60	18.68	18.67	18.0	0.0
40	PI2 BPSK	108	0		18.59	18.78	18.59	18.0	0.0
40	PI2 BPSK	108	54		18.69	18.81	18.70	18.0	0.0
40	PI2 BPSK	108	108		18.57	18.58	18.68		
40	PI2 BPSK	216	0		18.66	18.83	18.65	18.0	0.0
40	QPSK	1	1		18.80	18.84	18.77		
40	QPSK	1	108		18.76	18.85	18.65	18.0	0.0
40	QPSK	1	214		18.69	18.74	18.70		
40	QPSK	108	0		18.69	18.81	18.61	18.0	0.0
40	QPSK	108	54		18.72	18.89	18.71	18.0	0.0
40	QPSK	108	108		18.65	18.64	18.69	18.0	0.0
40	QPSK	216	0		18.73	18.88	18.70		
40	16QAM	1	1		18.73	18.80	18.67	18.0	0.0
40	64QAM	1	1		18.75	18.83	18.63	18.0	0.0
40	256QAM	1	1		18.64	18.67	18.64	18.0	0.0
Channel				372500	376000	379500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1870.5	1892.5	1897.5			
35	QPSK	1	1		18.77	18.93	18.69	18.0	0.0
Channel				373000	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1880	1892.5	1900			
30	QPSK	1	1		18.73	18.90	18.73	18.0	0.0
Channel				372500	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1892.5	1902.5			
25	QPSK	1	1		18.70	18.82	18.68	18.0	0.0
Channel				372000	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1880	1882.5	1905			
20	QPSK	1	1		18.73	18.90	18.67	18.0	0.0
Channel				371500	376000	381500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1882.5	1907.5			
15	QPSK	1	1		18.74	18.84	18.75	18.0	0.0
Channel				371000	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1895	1892.5	1910			
10	QPSK	1	1		18.71	18.88	18.74	18.0	0.0
Channel				370500	376000	382500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1882.5	1912.5			
5	QPSK	1	1		18.75	18.84	18.76	18.0	0.0

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374200	376000	379000			
Frequency (MHz)				1878	1892.5	1895			
40	PI2 BPSK	1	1		15.64	15.80	15.52		
40	PI2 BPSK	1	108		15.58	15.69	15.52		
40	PI2 BPSK	1	214		15.61	15.60	15.56	17.5	0.0
40	PI2 BPSK	108	0		15.56	15.69	15.50	17.5	0.0
40	PI2 BPSK	108	54		15.58	15.62	15.54	17.5	0.0
40	PI2 BPSK	108	108		15.51	15.59	15.52		
40	PI2 BPSK	216	0		15.56	15.78	15.51	17.5	0.0
40	QPSK	1	1		15.68	15.81	15.62		
40	QPSK	1	108		15.63	15.70	15.58	17.5	0.0
40	QPSK	1	214		15.66	15.68	15.59		
40	QPSK	108	0		15.62	15.70	15.55	17.5	0.0
40	QPSK	108	54		15.65	15.76	15.58	17.5	0.0
40	QPSK	108	108		15.57	15.66	15.57		
40	QPSK	216	0		15.60	15.80	15.55	17.5	0.0
40	16QAM	1	1		15.62	15.76	15.56	17.5	0.0
40	64QAM	1	1		15.58	15.60	15.54	17.5	0.0
40	256QAM	1	1		15.59	15.64	15.58	17.5	0.0
Channel				372500	376000	379500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1892.5	1897.5			
35	QPSK	1	1		15.66	15.78	15.59	17.5	0.0
Channel				373000	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1890	1892.5	1900			
30	QPSK	1	1		15.65	15.76	15.59	17.5	0.0
Channel				372500	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1892.5	1902.5			
25	QPSK	1	1		15.59	15.74	15.57	17.5	0.0
Channel				372000	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1890	1882.5	1905			
20	QPSK	1	1		15.63	15.79	15.58	17.5	0.0
Channel				371500	376000	381500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1882.5	1907.5			
15	QPSK	1	1		15.55	15.66	15.56	17.5	0.0
Channel				371000	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1895	1892.5	1910			
10	QPSK	1	1		15.56	15.60	15.55	17.5	0.0
Channel				370500	376000	382500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1882.5	1912.5			
5	QPSK	1	1		15.59	15.60	15.51	17.5	0.0

n26_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				165000	166300	167600	24.0	0.0
Frequency (MHz)				834	831.5	836		
20	PI2 BPSK	1	1	22.87	22.89	22.83		
20	PI2 BPSK	1	53	22.88	22.83	22.87	24.0	0.0
20	PI2 BPSK	1	104	22.85	22.79	22.86		
20	PI2 BPSK	50	0	22.85	22.85	22.85		
20	PI2 BPSK	50	28	22.92	22.90	22.94	24.0	0.0
20	PI2 BPSK	50	56	22.87	22.86	22.86	24.0	0.0
20	PI2 BPSK	100	0	22.86	22.86	22.91	24.0	0.0
20	QPSK	1	1	22.99	22.98	23.02	24.0	0.0
20	QPSK	1	53	22.90	22.81	22.86		
20	QPSK	1	104	22.90	22.88	22.83		
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0
20	QPSK	50	28	22.87	22.85	22.86	24.0	0.0
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0
20	QPSK	100	0	22.80	22.79	22.83	24.0	0.0
20	16QAM	1	1	22.86	22.85	22.85	23.0	1.0
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0
Channel				165000	166300	167600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	831.5	831.5	24.0	0.0
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818	831.5	844	24.0	0.0
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0

n26_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				165000	166300	167600	24.0	0.0
Frequency (MHz)				834	831.5	836		
20	PI2 BPSK	1	1	22.86	22.88	22.87		
20	PI2 BPSK	1	53	22.88	22.78	22.80	24.0	0.0
20	PI2 BPSK	1	104	22.90	22.76	22.81		
20	PI2 BPSK	50	0	22.89	22.87	22.85		
20	PI2 BPSK	50	28	22.80	22.85	22.82	24.0	0.0
20	PI2 BPSK	50	56	22.85	22.80	22.81	24.0	0.0
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0
20	QPSK	1	1	22.99	22.97	23.00	24.0	0.0
20	QPSK	1	53	22.95	22.92	22.92		
20	QPSK	1	104	22.94	22.87	22.93		
20	QPSK	50	0	22.85	22.81	22.86	24.0	0.0
20	QPSK	50	28	22.90	22.89	22.95	24.0	0.0
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0
Channel				165000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818	831.5	844	24.0	0.0
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.85	22.87	22.86	24.0	0.0



n30_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)
Channel				460000			20.0	0.0
Frequency (MHz)				2310				
10	PI/2 BPSK	1	1		18.09			
10	PI/2 BPSK	1	26		18.05			
10	PI/2 BPSK	1	50		18.06			
10	PI/2 BPSK	25	0		18.08		20.0	0.0
10	PI/2 BPSK	25	14		18.04		20.0	0.0
10	PI/2 BPSK	25	27		18.06			
10	PI/2 BPSK	50	0		18.06		20.0	0.0
10	QPSK	1	1		18.15			
10	QPSK	1	26		18.11		20.0	0.0
10	QPSK	1	50		18.01			
10	QPSK	25	0		18.08		20.0	0.0
10	QPSK	25	14		18.13		20.0	0.0
10	QPSK	25	27		18.11		20.0	0.0
10	QPSK	50	0		18.11		20.0	0.0
10	16QAM	1	1		18.03		20.0	0.0
10	64QAM	1	1		18.13		20.0	0.0
10	256QAM	1	1		17.61		19.5	0.5
Channel				481500	460000	462000	Tune-up time	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	18.08	18.03	18.05		

n30_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				460000			21.5	0.0	
Frequency (MHz)				2310					
10	PI/2 BPSK	1	1		20.39				
10	PI/2 BPSK	1	26		20.43				
10	PI/2 BPSK	1	50		20.49				
10	PI/2 BPSK	25	0		20.46		21.5	0.0	
10	PI/2 BPSK	25	14		20.41		21.5	0.0	
10	PI/2 BPSK	25	27		20.45		21.5	0.0	
10	PI/2 BPSK	50	0		20.35		21.5	0.0	
10	QPSK	1	1		20.50				
10	QPSK	1	26		20.48		21.5	0.0	
10	QPSK	1	50		20.40				
10	QPSK	25	0		20.35		21.5	0.0	
10	QPSK	25	14		20.47		21.5	0.0	
10	QPSK	25	27		20.38				
10	QPSK	50	0		20.39		21.5	0.0	
10	16QAM	1	1		20.44		21.5	0.0	
10	64QAM	1	1		20.43		21.5	0.0	
10	256QAM	1	1		20.25		21.0	0.5	
Channel				481500	460000	462000	Tune-up limit	MPR	
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)	
5	QPSK	1	1		20.46	20.38	20.45	21.5	0.0

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	16.98	16.91	16.92			
40	P12 BPSK	1	108	16.91	16.89	16.84	18.0		0.0
40	P12 BPSK	1	214	16.98	16.88	16.71			
40	P12 BPSK	108	0	16.87	16.89	16.80	18.0		0.0
40	P12 BPSK	108	54	16.91	16.89	16.82	18.0		0.0
40	P12 BPSK	108	108	16.84	16.70	16.62	18.0		0.0
40	P12 BPSK	216	0	16.91	16.97	16.84			
40	QPSK	1	1	17.01	17.02	16.96			
40	QPSK	1	108	16.92	16.95	16.85	18.0		0.0
40	QPSK	1	214	16.93	16.90	16.78			
40	QPSK	108	0	16.88	16.90	16.88	18.0		0.0
40	QPSK	108	54	16.97	16.99	16.93	18.0		0.0
40	QPSK	108	108	16.92	16.80	16.68	18.0		0.0
40	QPSK	216	0	16.97	16.98	16.86			
40	16QAM	1	1	17.01	16.97	16.89	18.0		0.0
40	64QAM	1	1	16.94	16.93	16.87	18.0		0.0
40	256QAM	1	1	16.93	16.94	16.92	18.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.95	16.90	16.89	18.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.89	16.84	16.77	18.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.94	16.89	16.85	18.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.87	16.85	16.72	18.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.97	16.90	16.89	18.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.88	16.86	16.73	18.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.92	16.84	16.70	18.0		0.0

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	16.69	16.79	16.75			
40	P12 BPSK	1	108	16.67	16.76	16.69	17.5	0.0	
40	P12 BPSK	1	214	16.68	16.75	16.69			
40	P12 BPSK	108	0	16.68	16.76	16.51	17.5	0.0	
40	P12 BPSK	108	54	16.70	16.78	16.74	17.5	0.0	
40	P12 BPSK	108	108	16.57	16.70	16.59			
40	P12 BPSK	216	0	16.72	16.71	16.70	17.5	0.0	
40	QPSK	1	1	16.70	16.68	16.55			
40	QPSK	1	108	16.76	16.60	16.66	17.5	0.0	
40	QPSK	1	214	16.65	16.60	16.71			
40	QPSK	108	0	16.69	16.79	16.61	17.5	0.0	
40	QPSK	108	54	16.72	16.62	16.51	17.5	0.0	
40	QPSK	108	108	16.61	16.76	16.65	17.5	0.0	
40	QPSK	216	0	16.73	16.60	16.76			
40	16QAM	1	1	16.76	16.63	16.78	17.5	0.0	
40	64QAM	1	1	16.68	16.73	16.61	17.5	0.0	
40	256QAM	1	1	16.55	16.76	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.77	16.62	16.80	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.69	16.66	16.76	17.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.74	16.63	16.60	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.69	16.61	16.77	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.73	16.62	16.77	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.78	16.78	16.80	17.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.75	16.84	16.76	17.5	0.0	

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1		18.26				
15	P12 BPSK	1	40		18.17		19.5	0.0	
15	P12 BPSK	1	77		18.02				
15	P12 BPSK	36	0		18.10		19.5	0.0	
15	P12 BPSK	36	22		18.24		19.5	0.0	
15	P12 BPSK	36	43		17.99		19.5	0.0	
15	P12 BPSK	75	0		18.13				
15	QPSK	1	1		18.32				
15	QPSK	1	40		18.21		19.5	0.0	
15	QPSK	1	77		18.09				
15	QPSK	36	0		18.17		19.5	0.0	
15	QPSK	36	22		18.31		19.5	0.0	
15	QPSK	36	43		18.08		19.5	0.0	
15	QPSK	75	0		18.22				
15	16QAM	1	1		18.28		19.5	0.0	
15	64QAM	1	1		18.25		19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.23	18.31	18.28	19.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.22	18.24	18.27	19.5	0.0	



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1		16.87		17.5	0.0	
15	PI2 BPSK	1	40		16.85				
15	PI2 BPSK	1	77		16.72				
15	PI2 BPSK	36	0		16.69		17.5	0.0	
15	PI2 BPSK	36	22		16.78		17.5	0.0	
15	PI2 BPSK	36	43		16.61		17.5	0.0	
15	PI2 BPSK	75	0		16.80		17.5	0.0	
15	QPSK	1	1		16.88				
15	QPSK	1	40		16.86				
15	QPSK	1	77		16.74		17.5	0.0	
15	QPSK	36	0		16.76		17.5	0.0	
15	QPSK	36	22		16.82		17.5	0.0	
15	QPSK	36	43		16.70		17.5	0.0	
15	QPSK	75	0		16.85		17.5	0.0	
15	16QAM	1	1		16.81		17.5	0.0	
15	64QAM	1	1		16.79		17.5	0.0	
15	256QAM	1	1		16.75		17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.80	16.80	16.78	17.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.80	16.82	16.79	17.5	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	PI2 BPSK	1	80	23.01	23.04	22.92			
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.98	22.98			
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.96	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0	
30	QPSK	80	0	22.89	22.93	22.91			
30	QPSK	80	40	22.91	22.96	22.93			
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.86	24.0	0.0	
30	16QAM	1	1	22.80	22.83	22.83			
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.83	22.87	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.86	22.82	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				676	680.5	683			
30	PI2 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	PI2 BPSK	1	80	23.15	23.16	23.10			
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.08	23.09	23.11			
30	QPSK	80	40	23.13	23.19	23.17			
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14			
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	Pl2 BPSK	1	1	19.29	19.35	19.37	21.0	0.0			
40	Pl2 BPSK	1	53	19.21	19.32	19.24					
40	Pl2 BPSK	1	104	19.27	19.33	19.31					
40	Pl2 BPSK	50	0	19.20	19.28	19.26					
40	Pl2 BPSK	50	26	19.25	19.25	19.24	21.0	0.0			
40	Pl2 BPSK	50	56	19.18	19.36	19.24	21.0	0.0			
40	Pl2 BPSK	100	0	19.27	19.34	19.23					
40	QPSK	1	1	19.31	19.40	19.36					
40	QPSK	1	53	19.17	19.35	19.26					
40	QPSK	1	104	19.16	19.27	19.29	21.0	0.0			
40	QPSK	50	0	19.21	19.26	19.28	21.0	0.0			
40	QPSK	50	26	19.32	19.37	19.31					
40	QPSK	50	56	19.25	19.30	19.30					
40	QPSK	100	0	19.29	19.35	19.32					
40	16QAM	1	1	19.19	19.26	19.32	21.0	0.0			
40	16QAM	1	1	19.23	19.33	19.23	21.0	0.0			
40	256QAM	1	1	19.29	19.37	19.30	21.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	19.24	19.33	19.24	21.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	19.20	19.34	19.36	21.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	19.16	19.27	19.29	21.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	19.19	19.27	19.28	21.0	0.0			

n38_Ant 9											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	Pl2 BPSK	1	1	18.85	19.01	18.89	20.0	0.0			
40	Pl2 BPSK	1	53	18.89	18.94	18.95					
40	Pl2 BPSK	1	104	18.95	18.99	18.91					
40	Pl2 BPSK	50	0	18.93	18.94	18.98					
40	Pl2 BPSK	50	26	18.97	18.94	18.98	20.0	0.0			
40	Pl2 BPSK	50	56	18.99	19.00	19.01	20.0	0.0			
40	Pl2 BPSK	100	0	18.94	18.99	18.97					
40	QPSK	1	1	19.00	19.05	19.02					
40	QPSK	1	53	18.99	18.99	18.91		20.0			
40	QPSK	1	104	18.96	18.98	18.98	20.0	0.0			
40	QPSK	50	0	18.85	18.94	18.94					
40	QPSK	50	26	18.90	18.98	18.98					
40	QPSK	50	56	18.88	18.95	18.89					
40	QPSK	100	0	18.90	18.95	18.93	20.0	0.0			
40	16QAM	1	1	18.93	18.93	18.96	20.0	0.0			
40	16QAM	1	1	18.97	18.94	18.97	20.0	0.0			
40	256QAM	1	1	18.44	18.55	18.43	19.5	0.5			
Channel											
Frequency (MHz)											
30	QPSK	1	1	18.89	19.04	18.98	20.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	18.95	18.98	18.96	20.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	18.97	19.00	18.93	20.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	18.93	18.96	18.91	20.0	0.0			

n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 5000000	Power Middle Ch. / Freq. 5169688	Power High Ch. / Freq. 5280000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	19.25	19.31	19.25	21.0	0.0	
100	Pl2 BPSK	1	137	19.24	19.32	19.32			
100	Pl2 BPSK	1	271	19.23	19.35	19.33			
100	Pl2 BPSK	135	0	19.20	19.38	19.35			
100	Pl2 BPSK	135	66	19.25	19.31	19.35	21.0	0.0	
100	Pl2 BPSK	135	136	19.21	19.32	19.38	21.0	0.0	
100	Pl2 BPSK	270	0	19.18	19.32	19.25			
100	QPSK	1	1	19.33	19.42	19.40			
100	QPSK	1	137	19.28	19.36	19.29			
100	QPSK	1	271	19.19	19.36	19.31	21.0	0.0	
100	QPSK	135	0	19.28	19.35	19.32			
100	QPSK	135	66	19.26	19.40	19.36			
100	QPSK	135	136	19.21	19.36	19.24			
100	QPSK	270	0	19.29	19.36	19.33	21.0	0.0	
100	16QAM	1	1	19.27	19.37	19.28	21.0	0.0	
100	16QAM	1	1	19.25	19.31	19.26	21.0	0.0	
100	256QAM	1	1	19.29	19.36	19.38	21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.32	19.32	19.28	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.23	19.28	19.28	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.29	19.32	19.32	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.28	19.30	19.34	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.32	19.29	19.28	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.29	19.36	19.37	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.32	19.33	19.37	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.26	19.34	19.25	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.32	19.29	19.37	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.29	19.37	19.36	Tune-up limit (dBm)	MPR (dB)	

n41_Ant 1_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518698	536000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	19.23	19.31	19.25			
100	PQ2 BPSK	1	137	19.24	19.32	19.32	21.0	0.0	
100	PQ2 BPSK	1	271	19.23	19.35	19.33			
100	PQ2 BPSK	135	0	19.20	19.38	19.35	21.0	0.0	
100	PQ2 BPSK	135	69	19.25	19.31	19.35	21.0	0.0	
100	PQ2 BPSK	135	138	19.21	19.32	19.38	21.0	0.0	
100	PQ2 BPSK	270	0	19.18	19.32	19.25			
100	QPSK	1	1	19.23	19.42	19.35			
100	QPSK	1	137	19.26	19.30	19.28	21.0	0.0	
100	QPSK	1	271	19.19	19.30	19.31			
100	QPSK	135	0	19.28	19.35	19.32			
100	QPSK	135	69	19.21	19.40	19.35	21.0	0.0	
100	QPSK	135	138	19.21	19.35	19.34			
100	QPSK	270	0	19.29	19.30	19.33	21.0	0.0	
100	16QAM	1	1	19.27	19.37	19.28	21.0	0.0	
100	64QAM	1	1	19.25	19.31	19.28	21.0	0.0	
100	256QAM	1	1	19.25	19.35	19.38	21.0	0.0	
Channel				506000	518698	536006	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	19.33	19.32	19.28	21.0	0.0	
Channel				507204	518698	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2548.99	(dBm)	(dB)	
80	QPSK	1	1	19.23	19.27	19.27	21.0	0.0	
Channel				505502	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2585	(dBm)	(dB)	
70	QPSK	1	1	19.29	19.32	19.32	21.0	0.0	
Channel				505000	518698	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2594.98	(dBm)	(dB)	
60	QPSK	1	1	19.28	19.30	19.34	21.0	0.0	
Channel				504204	518698	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2584.99	(dBm)	(dB)	
50	QPSK	1	1	19.32	19.29	19.28	21.0	0.0	
Channel				503502	518698	536000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)	
40	QPSK	1	1	19.29	19.30	19.37	21.0	0.0	
Channel				502200	518698	534596	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	19.32	19.33	19.37	21.0	0.0	
Channel				507204	518698	532698	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2592.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	19.28	19.34	19.25	21.0	0.0	
Channel				500700	518698	536496	Tune-up limit	MPR	
Frequency (MHz)				2503.15	2592.99	2583.48	(dBm)	(dB)	
15	QPSK	1	1	19.32	19.29	19.37	21.0	0.0	
Channel				500202	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2585	(dBm)	(dB)	
10	QPSK	1	1	19.25	19.37	19.35	21.0	0.0	



n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq 506002	Power Mid Ch. / Freq 518598	Power High Ch. / Freq 526000	Tune-up limit (dBm)	MPR (dB)	
Channel				2545.01	2592.99	2640			
100	PQ2 BPSK	1	1	17.42	17.44	17.48	19.0		
100	PQ2 BPSK	1	137	17.39	17.40	17.46			
100	PQ2 BPSK	1	271	17.37	17.40	17.46			
100	PQ2 BPSK	135	0	17.40	17.54	17.38	19.0		
100	PQ2 BPSK	135	69	17.50	17.53	17.45	19.0		
100	PQ2 BPSK	135	138	17.47	17.41	17.48	19.0		
100	PQ2 BPSK	270	0	17.46	17.46	17.46	19.0		
100	QPSK	1	1	17.52	17.55	17.50			
100	QPSK	1	137	17.37	17.53	17.37			
100	QPSK	1	271	17.39	17.48	17.39	19.0		
100	QPSK	135	0	17.42	17.49	17.37			
100	QPSK	135	69	17.45	17.52	17.46			
100	QPSK	135	138	17.45	17.50	17.35	19.0		
100	QPSK	270	0	17.39	17.50	17.49			
100	16QAM	1	1	17.45	17.48	17.44	19.0		
100	64QAM	1	1	17.48	17.53	17.38	19.0		
100	256QAM	1	1	17.37	17.54	17.47	19.0		
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	19.0		
90	QPSK	1	1	17.38	17.42	17.47	19.0		
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	19.0		
80	QPSK	1	1	17.42	17.49	17.39	19.0		
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	19.0		
70	QPSK	1	1	17.41	17.50	17.48	19.0		
Channel				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	19.0		
60	QPSK	1	1	17.41	17.44	17.39	19.0		
Channel				510204	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	19.0		
50	QPSK	1	1	17.40	17.43	17.35	19.0		
Channel				511002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	19.0		
40	QPSK	1	1	17.39	17.40	17.43	19.0		
Channel				512000	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	19.0		
30	QPSK	1	1	17.40	17.50	17.38	19.0		
Channel				513004	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	19.0		
20	QPSK	1	1	17.37	17.51	17.46	19.0		
Channel				514000	518598	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	19.0		
15	QPSK	1	1	17.40	17.46	17.41	19.0		
Channel				515002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	19.0		
10	QPSK	1	1	17.47	17.47	17.41	19.0		

n41_Ant 2_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2546.01	2598.99	2640			
100	PQ2 BPSK	1	1	17.42	17.44	17.48	19.0		
100	PQ2 BPSK	1	137	17.39	17.40	17.46			
100	PQ2 BPSK	1	271	17.37	17.40	17.49			
100	PQ2 BPSK	135	0	17.40	17.54	17.38	19.0		
100	PQ2 BPSK	135	69	17.50	17.53	17.45	19.0		
100	PQ2 BPSK	135	138	17.47	17.41	17.48	19.0		
100	PQ2 BPSK	270	0	17.46	17.46	17.46	19.0		
100	QPSK	1	1	17.52	17.55	17.50			
100	QPSK	1	137	17.37	17.53	17.37			
100	QPSK	1	271	17.39	17.48	17.39	19.0		
100	QPSK	135	0	17.42	17.49	17.37			
100	QPSK	135	69	17.45	17.52	17.46			
100	QPSK	135	138	17.45	17.50	17.35	19.0		
100	QPSK	270	0	17.39	17.50	17.49			
100	16QAM	1	1	17.45	17.48	17.44	19.0		
100	64QAM	1	1	17.48	17.53	17.38	19.0		
100	256QAM	1	1	17.37	17.54	17.47	19.0		
Channel				506000	518598	526096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.38	17.42	17.47	19.0		
Channel				507204	518598	526968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02 <td>2592.99</td> <td>2648.99</td> <td colspan="3"></td>	2592.99	2648.99			
80	QPSK	1	1	17.42	17.49	17.39	19.0		
Channel				505200	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01 <td>2592.99</td> <td>2655</td> <td colspan="3"></td>	2592.99	2655			
70	QPSK	1	1	17.41	17.50	17.48	19.0		
Channel				505200	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526 <td>2592.99</td> <td>2658.98</td> <td colspan="3"></td>	2592.99	2658.98			
60	QPSK	1	1	17.41	17.44	17.39	19.0		
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02 <td>2592.99</td> <td>2664.99</td> <td colspan="3"></td>	2592.99	2664.99			
50	QPSK	1	1	17.40	17.43	17.35	19.0		
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01 <td>2592.99</td> <td>2670</td> <td colspan="3"></td>	2592.99	2670			
40	QPSK	1	1	17.39	17.40	17.43	19.0		
Channel				502200	518598	534966	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511 <td>2592.99</td> <td>2674.98</td> <td colspan="3"></td>	2592.99	2674.98			
30	QPSK	1	1	17.40	17.50	17.38	19.0		
Channel				501204	518598	535966	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02 <td>2592.99</td> <td>2679.99</td> <td colspan="3"></td>	2592.99	2679.99			
20	QPSK	1	1	17.37	17.51	17.46	19.0		
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5 <td>2592.99</td> <td>2682.48</td> <td colspan="3"></td>	2592.99	2682.48			
15	QPSK	1	1	17.40	17.46	17.41	19.0		
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01 <td>2592.99</td> <td>2685</td> <td colspan="3"></td>	2592.99	2685			
10	QPSK	1	1	17.47	17.47	17.41	19.0		



n41_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR	
Channel				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PQ2 BPSK	1	1	15.05	15.07	15.00	16.5	0.0	
100	PQ2 BPSK	1	137	15.02	15.14	15.11			
100	PQ2 BPSK	1	271	15.04	15.12	14.97			
100	PQ2 BPSK	135	0	15.05	15.14	15.10	16.5	0.0	
100	PQ2 BPSK	135	69	15.15	15.17	15.05	16.5	0.0	
100	PQ2 BPSK	135	138	15.04	15.14	14.97	16.5	0.0	
100	PQ2 BPSK	270	0	15.04	15.11	15.10	16.5	0.0	
100	QPSK	1	1	15.15	15.20	15.12	16.5	0.0	
100	QPSK	1	137	15.13	15.12	15.07			
100	QPSK	1	271	15.07	15.07	15.02			
100	QPSK	135	0	15.02	15.13	15.03	16.5	0.0	
100	QPSK	135	69	15.12	15.18	15.10			
100	QPSK	135	138	15.09	15.06	15.04			
100	QPSK	270	0	15.08	15.12	15.06	16.5	0.0	
100	16QAM	1	1	15.06	15.13	15.00	16.5	0.0	
100	64QAM	1	1	15.14	15.07	15.09	16.5	0.0	
100	256QAM	1	1	15.14	15.18	15.11	16.5	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2541	2592.99	2540			
90	QPSK	1	1	15.12	15.07	14.99	16.5	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2636.02 <td>2592.99</td> <td>2648.99</td> <td colspan="3"></td>	2592.99	2648.99			
80	QPSK	1	1	15.12	15.17	14.87	16.5	0.0	
Channel				507502	518598	537003	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2631.01 <td>2592.99</td> <td>2655</td> <td colspan="3"></td>	2592.99	2655			
70	QPSK	1	1	15.12	15.15	14.99	16.5	0.0	
Channel				508200	518598	531985	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2626 <td>2592.99</td> <td>2609.98</td> <td colspan="3"></td>	2592.99	2609.98			
60	QPSK	1	1	15.03	15.05	15.09	16.5	0.0	
Channel				504204	518598	532988	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2521.02 <td>2592.99</td> <td>2604.99</td> <td colspan="3"></td>	2592.99	2604.99			
50	QPSK	1	1	15.04	15.11	15.05	16.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2516.01 <td>2592.99</td> <td>2670</td> <td colspan="3"></td>	2592.99	2670			
40	QPSK	1	1	15.05	15.10	15.01	16.5	0.0	
Channel				502000	518598	534986	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2511 <td>2592.99</td> <td>2674.98</td> <td colspan="3"></td>	2592.99	2674.98			
30	QPSK	1	1	15.11	15.19	15.03	16.5	0.0	
Channel				507204	518598	525985	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2506.02 <td>2592.99</td> <td>2679.99</td> <td colspan="3"></td>	2592.99	2679.99			
20	QPSK	1	1	15.02	15.16	15.06	16.5	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2603.5 <td>2592.99</td> <td>2682.48</td> <td colspan="3"></td>	2592.99	2682.48			
15	QPSK	1	1	15.01	15.11	15.03	16.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2501.01 <td>2592.99</td> <td>2685</td> <td colspan="3"></td>	2592.99	2685			
10	QPSK	1	1	15.12	15.11	15.04	16.5	0.0	

n41_Ant 5_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	15.05	15.07	15.00	16.5	0.0	
100	PQ2 BPSK	1	137	15.02	15.14	15.11			
100	PQ2 BPSK	1	271	15.04	15.12	14.97			
100	PQ2 BPSK	135	0	15.05	15.14	15.10	16.5	0.0	
100	PQ2 BPSK	135	69	15.15	15.17	15.05	16.5	0.0	
100	PQ2 BPSK	135	138	15.04	15.14	14.97	16.5	0.0	
100	PQ2 BPSK	270	0	15.04	15.11	15.10	16.5	0.0	
100	QPSK	1	1	15.10	15.20	15.12	16.5	0.0	
100	QPSK	1	137	15.13	15.12	15.07			
100	QPSK	1	271	15.07	15.07	15.02			
100	QPSK	135	0	15.02	15.13	15.03	16.5	0.0	
100	QPSK	135	69	15.12	15.18	15.10			
100	QPSK	135	138	15.05	15.05	15.04			
100	QPSK	270	0	15.08	15.12	15.06	16.5	0.0	
100	16QAM	1	1	15.06	15.13	15.00	16.5	0.0	
100	64QAM	1	1	15.14	15.07	15.09	16.5	0.0	
100	256QAM	1	1	15.14	15.18	15.11	16.5	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.12	15.07	14.99	16.5	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2592.99	2648.99			
80	QPSK	1	1	15.12	15.17	14.97	16.5	0.0	
Channel				507502	518598	537003	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	15.12	15.15	14.99	16.5	0.0	
Channel				508200	518598	531985	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2609.98			
60	QPSK	1	1	15.03	15.05	15.09	16.5	0.0	
Channel				504204	518598	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99			
50	QPSK	1	1	15.04	15.11	15.05	16.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.05	15.10	15.01	16.5	0.0	
Channel				502200	518598	535985	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.11	15.19	15.03	16.5	0.0	
Channel				507204	518598	525985	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.02	15.16	15.06	16.5	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	15.01	15.11	15.03	16.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	15.12	15.11	15.04	16.5	0.0	

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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				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MPR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532698	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0
Channel				502200	518098	535098	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532698	Tune-up limit	MPR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536496	Tune-up limit	MPR
Frequency (MHz)				2603.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				500202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	536000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	



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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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PQ2 BPSK	1	1	18.99	18.99	18.99	20.0	0.0	
100	PQ2 BPSK	1	137	18.99	19.07	19.02			
100	PQ2 BPSK	1	271	18.99	18.96	18.93			
100	PQ2 BPSK	135	0	18.95	18.95	18.96			
100	PQ2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0	
100	PQ2 BPSK	135	138	18.99	18.98	18.97	20.0	0.0	
100	PQ2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0	
100	QPSK	1	1	18.12	18.15	18.10			
100	QPSK	1	137	18.99	19.00	18.97			
100	QPSK	1	271	18.95	18.97	19.04			
100	QPSK	135	0	18.87	18.97	18.94	20.0	0.0	
100	QPSK	135	69	18.92	19.06	19.03			
100	QPSK	135	138	18.90	18.99	18.94			
100	QPSK	270	0	19.01	19.05	18.90			
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0	
100	64QAM	1	1	18.97	19.04	19.03	20.0	0.0	
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98			
90	QPSK	1	1	18.99	18.99	19.04	20.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0	
Channel				507502	518598	537013	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0	
Channel				507500	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2600	2592.99	2609.98			
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99			
50	QPSK	1	1	18.91	19.05	19.02	20.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0	
Channel				502205	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2585			
10	QPSK	1	1	19.00	18.99	18.99	20.0	0.0	

n41_Ant 9_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	18.99	19.00	18.98	20.0	0.0	
100	PQ2 BPSK	1	137	18.99	19.07	19.02			
100	PQ2 BPSK	1	271	18.90	18.96	18.93			
100	PQ2 BPSK	135	0	18.95	18.95	18.96			
100	PQ2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0	
100	PQ2 BPSK	135	138	18.99	18.98	18.97	20.0	0.0	
100	PQ2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0	
100	QPSK	1	1	18.12	18.15	18.10			
100	QPSK	1	137	19.00	19.00	18.97			
100	QPSK	1	271	18.95	18.97	19.04			
100	QPSK	135	0	18.87	18.97	18.94	20.0	0.0	
100	QPSK	135	69	18.92	19.06	19.03			
100	QPSK	135	138	18.90	18.99	18.94			
100	QPSK	270	0	19.01	19.05	18.90			
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0	
100	64QAM	1	1	18.97	19.04	19.03	20.0	0.0	
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98	20.0	0.0	
90	QPSK	1	1	18.98	18.98	19.04	20.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	20.0	0.0	
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0	
Channel				507502	518598	537013	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	20.0	1.0	
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0	
Channel				507500	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98	20.0	0.0	
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99	20.0	0.0	
50	QPSK	1	1	18.91	19.05	19.02	20.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570	20.0	0.0	
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0	
Channel				502205	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	20.0	0.0	
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	20.0	0.0	
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48	20.0	0.0	
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2585	20.0	0.0	
10	QPSK	1	1	19.00	18.99	18.99	20.0	0.0	



n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid-H Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3370	3624.99	3679.98			
40	PI2 BPSK	1	1	16.93	16.95	16.84			
40	PI2 BPSK	1	53	16.88	16.87	16.89	18.0	0.0	
40	PI2 BPSK	1	104	16.86	16.87	16.91			
40	PI2 BPSK	50	0	16.84	16.85	16.78	18.0	0.0	
40	PI2 BPSK	50	26	16.85	16.85	16.82	18.0	0.0	
40	PI2 BPSK	50	56	16.94	16.96	16.77			
40	PI2 BPSK	100	0	16.89	16.94	16.83	18.0	0.0	
40	QPSK	1	1	16.95	17.00	16.92			
40	QPSK	1	53	16.93	16.90	16.88	18.0	0.0	
40	QPSK	1	104	16.85	16.99	16.91			
40	QPSK	50	0	16.86	16.91	16.77			
40	QPSK	50	26	16.95	16.97	16.92	18.0	0.0	
40	QPSK	50	56	16.90	16.85	16.80			
40	QPSK	100	0	16.91	16.95	16.88	18.0	0.0	
40	16QAM	1	1	16.92	16.97	16.83	18.0	0.0	
40	64QAM	1	1	16.92	16.95	16.90	18.0	0.0	
40	256QAM	1	1	16.89	16.88	16.78	18.0	0.0	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3065.02	3624.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	16.90	16.91	16.80	18.0	0.0	
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	16.87	16.95	16.88	18.0	0.0	
Channel				637500	641700	645332	Tune-up limit	MPR	
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	16.95	16.88	16.84	18.0	0.0	

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid-H Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3370	3624.99	3679.98			
40	PI2 BPSK	1	1	15.65	15.71	15.69			
40	PI2 BPSK	1	53	15.69	15.73	15.71	17.0	0.0	
40	PI2 BPSK	1	104	15.66	15.63	15.70			
40	PI2 BPSK	50	0	15.57	15.63	15.64	17.0	0.0	
40	PI2 BPSK	50	26	15.63	15.65	15.66	17.0	0.0	
40	PI2 BPSK	50	56	15.55	15.65	15.65			
40	PI2 BPSK	100	0	15.64	15.73	15.67	17.0	0.0	
40	QPSK	1	1	15.70	15.78	15.72			
40	QPSK	1	53	15.67	15.66	15.67	17.0	0.0	
40	QPSK	1	104	15.69	15.73	15.61			
40	QPSK	50	0	15.57	15.70	15.69			
40	QPSK	50	26	15.69	15.72	15.71	17.0	0.0	
40	QPSK	50	56	15.59	15.63	15.58			
40	QPSK	100	0	15.64	15.71	15.69	17.0	0.0	
40	16QAM	1	1	15.60	15.73	15.68	17.0	0.0	
40	64QAM	1	1	15.62	15.67	15.64	17.0	0.0	
40	256QAM	1	1	15.62	15.69	15.64	17.0	0.0	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3065.02	3624.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	15.62	15.68	15.70	17.0	0.0	
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	15.64	15.76	15.65	17.0	0.0	
Channel				637500	641700	645332	Tune-up limit	MPR	
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	15.63	15.76	15.67	17.0	0.0	

n48_FCC_Part96_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3565.02	3624.99	3694.98			
40	PI2 BPSK	1	1	20.29	20.39	20.37	21.5	0.0	
40	PI2 BPSK	1	53	20.28	20.34	20.29			
40	PI2 BPSK	1	104	20.27	20.32	20.28			
40	PI2 BPSK	50	0	20.32	20.37	20.25	21.5	0.0	
40	PI2 BPSK	50	26	20.33	20.37	20.32	21.5	0.0	
40	PI2 BPSK	50	56	20.27	20.32	20.21	21.5	0.0	
40	PI2 BPSK	100	0	20.30	20.28	20.27			
40	QPSK	1	1	20.30	20.40	20.31			
40	QPSK	1	53	20.29	20.37	20.34	21.5	0.0	
40	QPSK	1	104	20.32	20.28	20.32			
40	QPSK	50	0	20.25	20.30	20.28			
40	QPSK	50	26	20.24	20.29	20.26	21.5	0.0	
40	QPSK	50	56	20.27	20.28	20.25			
40	QPSK	100	0	20.28	20.31	20.27			
40	16QAM	1	1	19.89	20.03	19.99	21.5	0.0	
40	16QAM	1	1	19.29	19.37	19.27	20.0	1.5	
40	256QAM	1	1	19.88	19.87	19.72	19.0	3.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3694.98			
30	QPSK	1	1	20.30	20.39	20.28	21.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	20.22	20.26	20.23	21.5	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98			
10	QPSK	1	1	20.33	20.29	20.31	21.5	0.0	

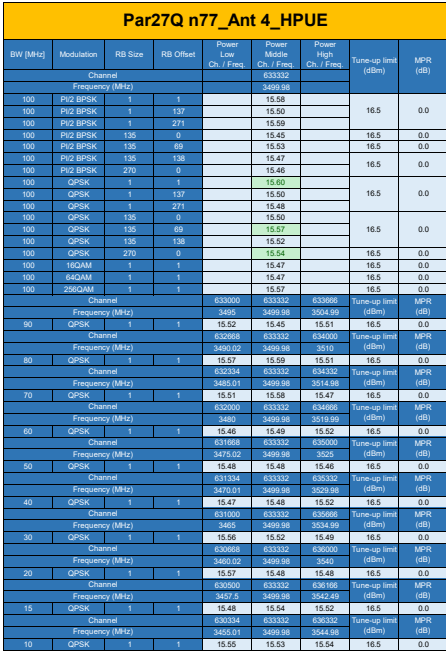
n48_FCC_Part96_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3570	3624.99	3693.98			
40	PI2 BPSK	1	1	13.94	13.94	13.81	15.0	0.0	
40	PI2 BPSK	1	53	13.92	13.89	13.86			
40	PI2 BPSK	1	104	13.90	13.97	13.82			
40	PI2 BPSK	50	0	13.97	13.97	13.81	15.0	0.0	
40	PI2 BPSK	50	26	13.96	13.93	13.81	15.0	0.0	
40	PI2 BPSK	50	56	13.87	13.85	13.89	15.0	0.0	
40	PI2 BPSK	100	0	13.93	13.87	13.93			
40	QPSK	1	1	13.96	14.00	13.95			
40	QPSK	1	53	13.96	13.96	13.89	15.0	0.0	
40	QPSK	1	104	13.96	13.97	13.85			
40	QPSK	50	0	13.88	13.90	13.86			
40	QPSK	50	26	13.91	13.88	13.90	15.0	0.0	
40	QPSK	50	56	13.89	13.94	13.82			
40	QPSK	100	0	13.87	13.90	13.89			
40	16QAM	1	1	13.88	13.96	13.92	15.0	0.0	
40	16QAM	1	1	13.83	13.97	13.93	15.0	0.0	
40	256QAM	1	1	13.95	13.99	13.89	15.0	0.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3694.98			
30	QPSK	1	1	13.98	13.92	13.81	15.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	13.88	13.98	13.83	15.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98			
10	QPSK	1	1	13.83	13.85	13.89	15.0	0.0	



Par270 n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	Pi2 BPSK	1	1	15.50	15.59	15.55	16.5	0.0	
100	Pi2 BPSK	1	137	15.52	15.61	15.57			
100	Pi2 BPSK	1	271	15.54	15.56	15.56			
100	Pi2 BPSK	136	0	15.55	15.68	15.56	16.5	0.0	
100	Pi2 BPSK	136	69	15.63	15.56	15.57	16.5	0.0	
100	Pi2 BPSK	136	136	15.58	15.60	15.55	16.5	0.0	
100	Pi2 BPSK	270	0	15.51	15.62	15.58	16.5	0.0	
100	QPSK	1	1	15.50	15.70	15.61	16.5	0.0	
100	QPSK	1	137	15.58	15.66	15.51			
100	QPSK	1	271	15.51	15.66	15.54			
100	QPSK	136	0	15.58	15.59	15.56	16.5	0.0	
100	QPSK	136	69	15.60	15.65	15.56			
100	QPSK	136	136	15.55	15.64	15.55			
100	QPSK	270	0	15.57	15.63	15.61	16.5	0.0	
100	16QAM	1	1	15.56	15.64	15.62	16.5	0.0	
100	64QAM	1	1	15.56	15.55	15.53	16.5	0.0	
100	256QAM	1	1	15.56	15.64	15.58	16.5	0.0	
Channel									
Frequency (MHz)				3649.68	6690.00	6623.32	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.60	15.64	15.48	16.5	0.0	
Channel									
Frequency (MHz)				6203.32	6590.00	6626.68	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.61	15.60	15.69	16.5	0.0	
Channel									
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.50	15.61	15.61	16.5	0.0	
Channel									
Frequency (MHz)				3730.02	3840	3949.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.57	15.62	15.62	16.5	0.0	
Channel									
Frequency (MHz)				3848.334	6590.00	6636.66	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.57	15.67	15.51	16.5	0.0	
Channel									
Frequency (MHz)				3848.000	6590.00	6640.00	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.55	15.62	15.50	16.5	0.0	
Channel									
Frequency (MHz)				3649.68	6690.00	6643.32	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.51	15.63	15.58	16.5	0.0	
Channel									
Frequency (MHz)				3710.01	6640	3969.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.57	15.63	15.50	16.5	0.0	
Channel									
Frequency (MHz)				3847.168	6590.00	6643.83	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.52	15.61	15.56	16.5	0.0	
Channel									
Frequency (MHz)				3705	6590.00	6620.00	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.61	15.60	15.52	16.5	0.0	

Par270 n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	Pi2 BPSK	1	1	15.50	15.59	15.55	16.5	0.0	
100	Pi2 BPSK	1	137	15.52	15.61	15.57			
100	Pi2 BPSK	1	271	15.54	15.56	15.56			
100	Pi2 BPSK	136	0	15.55	15.68	15.56	16.5	0.0	
100	Pi2 BPSK	136	69	15.63	15.56	15.57	16.5	0.0	
100	Pi2 BPSK	136	136	15.58	15.60	15.55	16.5	0.0	
100	Pi2 BPSK	270	0	15.51	15.62	15.58	16.5	0.0	
100	QPSK	1	1	15.50	15.70	15.61	16.5	0.0	
100	QPSK	1	137	15.58	15.66	15.51			
100	QPSK	1	271	15.51	15.66	15.54			
100	QPSK	136	0	15.58	15.59	15.56	16.5	0.0	
100	QPSK	136	69	15.60	15.65	15.56			
100	QPSK	136	136	15.55	15.64	15.55			
100	QPSK	270	0	15.57	15.63	15.61	16.5	0.0	
100	16QAM	1	1	15.56	15.64	15.62	16.5	0.0	
100	64QAM	1	1	15.56	15.55	15.53	16.5	0.0	
100	256QAM	1	1	15.56	15.64	15.58	16.5	0.0	
Channel									
Frequency (MHz)				3649.68	3690.00	3650.32	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	15.50	15.64	15.48	16.5	0.0	
Channel									
Frequency (MHz)				3740.01	3840.00	3940.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.57	15.60	15.58	16.5	0.0	
Channel									
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.50	15.61	15.61	16.5	0.0	
Channel									
Frequency (MHz)				3848.68	3930.00	3933.32	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.57	15.62	15.62	16.5	0.0	
Channel									
Frequency (MHz)				3848.334	3930.00	3930.999	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.57	15.67	15.51	16.5	0.0	
Channel									
Frequency (MHz)				3848.000	3930.00	3930.000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.55	15.62	15.50	16.5	0.0	
Channel									
Frequency (MHz)				3715.02	3840.00	3945.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.51	15.63	15.58	16.5	0.0	
Channel									
Frequency (MHz)				3710.01	3840.00	3949.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.57	15.63	15.50	16.5	0.0	
Channel									
Frequency (MHz)				3847.168	3930.00	3943.832	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.52	15.61	15.56	16.5	0.0	
Channel									
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.61	15.60	15.52	16.5	0.0	

Par27Q n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3479.14	3533.32				
100	Pi2 BPSK	1	1	15.58			16.5	0.0	
100	Pi2 BPSK	1	137	15.50					
100	Pi2 BPSK	1	271	15.59					
100	Pi2 BPSK	136	0	15.45			16.5	0.0	
100	Pi2 BPSK	136	69	15.53			16.5	0.0	
100	Pi2 BPSK	136	136	15.47			16.5	0.0	
100	Pi2 BPSK	270	0	15.46			16.5	0.0	
100	QPSK	1	1	15.60			16.5	0.0	
100	QPSK	1	137	15.50					
100	QPSK	1	271	15.48					
100	QPSK	136	0	15.50			16.5	0.0	
100	QPSK	136	69	15.57					
100	QPSK	136	136	15.52					
100	QPSK	270	0	15.54			16.5	0.0	
100	16QAM	1	1	15.47			16.5	0.0	
100	64QAM	1	1	15.47			16.5	0.0	
100	256QAM	1	1	15.57			16.5	0.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.52	15.45	15.51	16.5	0.0	
Channel									
Frequency (MHz)				630668	633332	633000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.57	15.49	15.51	16.5	0.0	
Channel									
Frequency (MHz)				6346.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	15.51	15.58	15.47	16.5	0.0	
Channel									
Frequency (MHz)				630000	633332	630666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.46	15.49	15.52	16.5	0.0	
Channel									
Frequency (MHz)				631668	633332	633000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.48	15.48	15.48	16.5	0.0	
Channel									
Frequency (MHz)				6347.00	3499.98	3509.98	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.47	15.48	15.52	16.5	0.0	
Channel									
Frequency (MHz)				631000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.50	15.52	15.49	16.5	0.0	
Channel									
Frequency (MHz)				3480.02	3499.98	3504.98	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.57	15.48	15.48	16.5	0.0	
Channel									
Frequency (MHz)				3497.5	3499.98	3502.49	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.48	15.54	15.62	16.5	0.0	
Channel									
Frequency (MHz)				632000	633332	633332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.55	15.53	15.54	16.5	0.0	



Par270 n77_Ant 7									
RW (MHz)	Modulation	RB Size	RF Offset	Power Low (dBm)	Power Middle (dBm)	Power High (dBm)	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2-PSK	1	137	17.65	18.47	19.30			
100	P2-PSK	1	137	16.47	16.55	16.53	18.0	0.0	
100	P2-PSK	1	137	16.45	16.45	16.48			
100	P2-PSK	135	0	16.48	16.45	16.44	18.0	0.0	
100	P2-PSK	135	0	16.46	16.58	16.50	18.0	0.0	
100	P2-PSK	135	138	16.47	16.59	16.53			
100	P2-PSK	270	0	16.49	16.48	16.56			
100	QPSK	1	1	16.53	16.80	16.57			
100	QPSK	1	137	16.47	16.46	16.51	18.0	0.0	
100	QPSK	1	271	16.48	16.59	16.52			
100	QPSK	135	0	16.48	16.49	16.48			
100	QPSK	135	0	16.48	16.57		18.0	0.0	
100	QPSK	135	138	16.45	16.52	16.44			
100	QPSK	270	0	16.50	16.53	16.47	18.0	0.0	
100	16QAM	1	1	16.41	16.49	16.53	18.0	0.0	
100	16QAM	1	137	16.38	16.49	16.50	18.0	0.0	
100	16QAM	1	271	16.43	16.49	16.54	18.0	0.0	
100	256QAM	1	1	16.43	16.45	16.50	18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.52	16.56	16.52	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.47	16.55	16.43	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.52	16.53	16.53	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.49	16.49	16.49	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.49	16.49	16.54	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.51	16.47	16.51	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.43	16.52	16.43	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.38	16.56	16.48	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.44	16.59	16.50	Time-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.42	16.48	16.47	Time-up limit (dBm)		MPR (dB)

Par270 n77_Ant 7_HPUE								
RW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			3750	3840	3930		
100	QPSK	1	1	16.52	16.52	16.43		
100	QPSK	1	137	16.47	16.55	16.53	18.0	0.0
100	QPSK	1	271	16.45	16.45	16.48		
100	QPSK	135	0	16.48	16.55	16.44	18.0	0.0
100	QPSK	135	69	16.46	16.55	16.53	18.0	0.0
100	QPSK	135	138	16.47	16.59	16.83		
100	QPSK	270	0	16.49	16.48	16.56		
100	QPSK	1	1	16.53	16.66	16.77		
100	QPSK	1	137	16.47	16.57	16.57	18.0	0.0
100	QPSK	1	271	16.48	16.59	16.59		
100	QPSK	135	0	16.48	16.49	16.48		
100	QPSK	135	69	16.48	16.55	16.57	18.0	0.0
100	QPSK	135	139	16.45	16.52	16.44		
100	QPSK	270	0	16.50	16.53	16.47	18.0	0.0
100	16QAM	1	1	16.41	16.49	16.53	18.0	0.0
100	16QAM	1	138	16.38	16.46	16.46	18.0	0.0
100	16QAM	1	272	16.43	16.45	16.54	18.0	0.0
100	16QAM	1	1	16.43	16.45	16.54	18.0	0.0
Channel								
	Frequency (MHz)			669668	666600	666232	Time-up limit	MPR
50	QPSK	1	1	16.52	16.56	16.49	18.0	0.0
Channel								
	Frequency (MHz)			3740.01	369600	3696.99	Time-up limit	MPR
80	QPSK	1	1	16.47	16.55	16.43	18.0	0.0
Channel								
	Frequency (MHz)			3736	3800	3934	Time-up limit	MPR
70	QPSK	1	1	16.52	16.53	16.53	18.0	0.0
Channel								
	Frequency (MHz)			3730.92	3840	3949.98	Time-up limit	MPR
60	QPSK	1	1	16.49	16.49	16.49	18.0	0.0
Channel								
	Frequency (MHz)			664334	666000	663666	Time-up limit	MPR
50	QPSK	1	1	16.49	16.49	16.54	18.0	0.0
Channel								
	Frequency (MHz)			666800	666600	666400	Time-up limit	MPR
40	QPSK	1	1	16.51	16.47	16.51	18.0	0.0
Channel								
	Frequency (MHz)			664768	666000	664332	Time-up limit	MPR
30	QPSK	1	1	17.15	16.43	16.43	18.0	0.0
Channel								
	Frequency (MHz)			547334	650000	650666	Time-up limit	MPR
20	QPSK	1	1	17.01	16.40	16.69	18.0	0.0
Channel								
	Frequency (MHz)			16.38	16.56	16.46	18.0	0.0
15	QPSK	1	1	16.44	16.59	16.50	18.0	0.0
Channel								
	Frequency (MHz)			667000	666000	665800	Time-up limit	MPR
10	QPSK	1	1	16.42	16.48	16.47	18.0	0.0



Par27Q n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	16.41	16.41		
100	PQ2 BPSK	1	137	16.52		18.0	0.0
100	PQ2 BPSK	1	271	16.48			
100	PQ2 BPSK	135	0	16.42		18.0	0.0
100	PQ2 BPSK	135	69	16.52		18.0	0.0
100	PQ2 BPSK	135	138	16.40			
100	PQ2 BPSK	270	0	16.41		18.0	0.0
100	QPSK	1	1	16.53			
100	QPSK	1	137	16.51		18.0	0.0
100	QPSK	1	271	16.49			
100	QPSK	135	0	16.39			
100	QPSK	135	69	16.59		18.0	0.0
100	QPSK	135	138	16.38			
100	QPSK	270	0	16.49		18.0	0.0
100	16QAM	1	1	16.49		18.0	0.0
100	64QAM	1	1	16.59		18.0	0.0
100	256QAM	1	1	16.43		18.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.38	16.50	16.40	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.44	16.48	16.45	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.40	16.39	16.41	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.48	16.48	16.49	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.40	16.38	16.39	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.43	16.40	16.44	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.40	16.40	16.44	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.38	16.43	16.49	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.49	16.48	16.44	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.40	16.50	16.40	18.0

Par27Q n77_Ant 7_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	16.41			
100	PQ2 BPSK	1	137	16.52		18.0	0.0
100	PQ2 BPSK	1	271	16.48			
100	PQ2 BPSK	135	0	16.42		18.0	0.0
100	PQ2 BPSK	135	69	16.52		18.0	0.0
100	PQ2 BPSK	135	138	16.40			
100	PQ2 BPSK	270	0	16.41		18.0	0.0
100	QPSK	1	1	16.53			
100	QPSK	1	137	16.51		18.0	0.0
100	QPSK	1	271	16.49			
100	QPSK	135	0	16.39			
100	QPSK	135	69	16.59		18.0	0.0
100	QPSK	135	138	16.38			
100	QPSK	270	0	16.49		18.0	0.0
100	16QAM	1	1	16.49		18.0	0.0
100	64QAM	1	1	16.59		18.0	0.0
100	256QAM	1	1	16.43		18.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.38	16.50	16.40	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.44	16.48	16.45	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.40	16.39	16.41	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.48	16.48	16.49	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.40	16.38	16.39	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.43	16.40	16.44	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.40	16.40	16.44	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.38	16.43	16.49	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.49	16.48	16.44	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.40	16.50	16.40	18.0

Par27O n77_Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	17.54	17.65	17.52	
100	PQ2 BPSK	1	137	17.54	17.58	17.55	19.0
100	PQ2 BPSK	1	271	17.47	17.59	17.47	
100	PQ2 BPSK	135	0	17.52	17.64	17.49	19.0
100	PQ2 BPSK	135	69	17.47	17.60	17.38	19.0
100	PQ2 BPSK	135	138	17.48	17.58	17.51	
100	PQ2 BPSK	270	0	17.37	17.67	17.53	19.0
100	QPSK	1	1	17.53	17.68	17.53	
100	QPSK	1	137	17.48	17.62	17.50	19.0
100	QPSK	1	271	17.45	17.59	17.50	
100	QPSK	135	0	17.50	17.61	17.43	
100	QPSK	135	69	17.56	17.64	17.41	19.0
100	QPSK	135	138	17.43	17.62	17.46	
100	QPSK	270	0	17.52	17.60	17.45	19.0
100	16QAM	1	1	17.53	17.52	17.64	19.0
100	64QAM	1	1	17.52	17.54	17.36	19.0
100	256QAM	1	1	17.56	16.89	17.63	18.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.65	17.60	17.67	19.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.66	17.66	17.65	19.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.60	17.60	17.62	19.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.64	17.58	17.62	19.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.64	17.60	17.64	19.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.65	17.62	17.61	19.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.60	17.59	17.62	19.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.64	17.61	17.64	19.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.58	17.63	17.64	19.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.63	17.59	17.67	19.0



Par270 n77_Ant 8_HPUE									
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	PQ2 BPSK	1	1	17.54	17.65	17.52			
100	PQ2 BPSK	1	137	17.54	17.58	17.55	19.0	0.0	
100	PQ2 BPSK	1	271	17.47	17.59	17.47			
100	PQ2 BPSK	135	0	17.52	17.64	17.49	19.0	0.0	
100	PQ2 BPSK	135	69	17.47	17.60	17.36	19.0	0.0	
100	PQ2 BPSK	135	138	17.48	17.58	17.51			
100	PQ2 BPSK	270	0	17.37	17.67	17.53	19.0	0.0	
100	QPSK	1	1	17.52	17.68	17.53			
100	QPSK	1	137	17.48	17.62	17.50	19.0	0.0	
100	QPSK	1	271	17.45	17.59	17.50			
100	QPSK	135	0	17.50	17.61	17.43			
100	QPSK	135	69	17.45	17.64	17.41	19.0	0.0	
100	QPSK	135	138	17.43	17.62	17.46			
100	QPSK	270	0	17.52	17.60	17.45	19.0	0.0	
100	16QAM	1	1	17.53	17.52	17.64	19.0	0.0	
100	64QAM	1	1	17.52	17.54	17.36	19.0	0.0	
100	256QAM	1	1	17.56	16.89	17.63	18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.60	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	17.66	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.60	17.60	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.64	17.58	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.64	17.60	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.65	17.62	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.60	17.59	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.64	17.61	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.58	17.63	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.63	17.59	17.67	19.0	0.0	

Par270 n77_Ant 8									
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	PQ2 BPSK	1	1	17.53					
100	PQ2 BPSK	1	137	17.58			19.0	0.0	
100	PQ2 BPSK	1	271	17.52					
100	PQ2 BPSK	135	0	17.52			19.0	0.0	
100	PQ2 BPSK	135	69	17.59			19.0	0.0	
100	PQ2 BPSK	135	138	17.58					
100	PQ2 BPSK	270	0	17.60			19.0	0.0	
100	QPSK	1	1	17.65					
100	QPSK	1	137	17.57			19.0	0.0	
100	QPSK	1	271	17.57					
100	QPSK	135	0	17.58					
100	QPSK	135	69	17.62			19.0	0.0	
100	QPSK	135	138	17.55					
100	QPSK	270	0	17.53			19.0	0.0	
100	16QAM	1	1	17.58			19.0	0.0	
100	64QAM	1	1	17.54			19.0	0.0	
100	256QAM	1	1	16.41			18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.56	17.63	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.53	17.61	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.57	17.50	17.56	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.53	17.51	17.60	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.51	17.48	17.56	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.52	17.47	17.58	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.58	17.55	17.55	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.56	17.47	17.58	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.53	17.54	17.55	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.54	17.54	17.57	Tune-up limit (dBm)	MPR (dB)	

Par270 n77_Ant 8_HPUE									
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	PQ2 BPSK	1	1	17.53					
100	PQ2 BPSK	1	137	17.58			19.0		0.0
100	PQ2 BPSK	1	271	17.52					
100	PQ2 BPSK	135	0	17.52			19.0	0.0	
100	PQ2 BPSK	135	69	17.59			19.0	0.0	
100	PQ2 BPSK	135	138	17.52					
100	PQ2 BPSK	270	0	17.60			19.0	0.0	
100	QPSK	1	1	17.65					
100	QPSK	1	137	17.57			19.0	0.0	
100	QPSK	1	271	17.57					
100	QPSK	135	0	17.58					
100	QPSK	135	69	17.62			19.0	0.0	
100	QPSK	135	138	17.55					
100	QPSK	270	0	17.53			19.0	0.0	
100	16QAM	1	1	17.58			19.0	0.0	
100	64QAM	1	1	17.54			19.0	0.0	
100	256QAM	1	1	16.41			18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.58	17.63	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.54	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.57	17.50	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.53	17.51	17.60	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.51	17.48	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.52	17.47	17.58	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.50	17.45	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.56	17.47	17.58	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.53	17.54	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.54	17.54	17.57	19.0	0.0	



Par270 n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	12.14	12.06	12.10			
100	PQ2 BPSK	1	137	12.12	12.16	12.09	13.5	0.0	
100	PQ2 BPSK	1	271	12.06	12.06	12.03			
100	PQ2 BPSK	135	0	12.09	12.08	12.07	13.5	0.0	
100	PQ2 BPSK	135	69	12.10	12.11	12.11	13.5	0.0	
100	PQ2 BPSK	135	138	11.97	12.14	12.17			
100	PQ2 BPSK	270	0	12.14	12.14	12.08	13.5	0.0	
100	QPSK	1	1	12.15	12.25	12.21			
100	QPSK	1	137	12.16	12.17	12.14	13.5	0.0	
100	QPSK	1	271	12.12	12.12	12.17			
100	QPSK	135	0	12.14	12.15	12.10			
100	QPSK	135	69	12.11	12.22	12.15			
100	QPSK	135	138	12.15	12.15	12.09	13.5	0.0	
100	QPSK	270	0	12.08	12.16	12.16	13.5	0.0	
100	16QAM	1	1	11.97	12.14	12.06	13.5	0.0	
100	64QAM	1	1	11.98	12.08	12.06	13.5	0.0	
100	256QAM	1	1	12.17	12.13	12.21	13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.17	12.08	11.97	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.10	12.06	12.00	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.04	12.20	12.14	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.18	12.08	11.96	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.10	12.15	12.09	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.99	12.17	12.12	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.99	12.17	12.12	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.03	12.09	12.04	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.18	12.01	11.96	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.14	12.14	11.99	13.5	0.0	

Par270 n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	12.14	12.06	12.10			
100	PQ2 BPSK	1	137	12.12	12.16	12.09	13.5	0.0	
100	PQ2 BPSK	1	271	12.06	12.06	12.03			
100	PQ2 BPSK	135	0	12.09	12.08	12.07	13.5	0.0	
100	PQ2 BPSK	135	69	12.10	12.11	12.11	13.5	0.0	
100	PQ2 BPSK	135	138	11.97	12.14	12.17			
100	PQ2 BPSK	270	0	12.14	12.14	12.08	13.5	0.0	
Channel									
Frequency (MHz)									
100	QPSK	1	1	12.15	12.25	12.21			
100	QPSK	1	137	12.16	12.17	12.14	13.5	0.0	
100	QPSK	1	271	12.12	12.12	12.17			
100	QPSK	135	0	12.14	12.15	12.10			
100	QPSK	135	69	12.11	12.22	12.15			
100	QPSK	135	138	12.15	12.15	12.09	13.5	0.0	
100	QPSK	270	0	12.08	12.16	12.16	13.5	0.0	
Channel									
Frequency (MHz)									
100	16QAM	1	1	11.97	12.14	12.06	13.5	0.0	
100	64QAM	1	1	11.98	12.06	12.06	13.5	0.0	
100	256QAM	1	1	12.17	12.13	12.21	13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.17	12.08	11.57	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.10	12.06	12.00	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.04	12.20	12.14	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.18	12.08	11.96	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.10	12.15	12.09	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.99	12.17	12.12	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.99	12.17	12.12	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.03	12.09	12.04	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.18	12.01	11.96	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.14	12.14	11.99	13.5	0.0	

Par27Q n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	12.14	3469.98				
100	PQ2 BPSK	1	137	12.11			13.5	0.0	
100	PQ2 BPSK	1	271	12.13					
100	PQ2 BPSK	135	0	12.12			13.5	0.0	
100	PQ2 BPSK	135	69	12.21			13.5	0.0	
100	PQ2 BPSK	135	138	12.05			13.5	0.0	
100	PQ2 BPSK	270	0	12.12					
100	QPSK	1	1	12.29			13.5	0.0	
100	QPSK	1	137	12.17					
100	QPSK	1	271	12.04			13.5	0.0	
100	QPSK	135	0	12.10					
100	QPSK	135	69	12.25					
100	QPSK	135	138	12.08			13.5	0.0	
100	QPSK	270	0	12.16			13.5	0.0	
100	16QAM	1	1	12.18			13.5	0.0	
100	64QAM	1	1	12.22			13.5	0.0	
100	256QAM	1	1	12.15			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	631000	633332	636966	Tune-up limit (dBm)	MPR (dB)	
				3460	3469.98	3504.99	-0.01	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	630668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
				3460.02	3469.98	3510	-0.01	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	6289.01	633332	633332	Range limit (dBm)	MPR (dB)	
				3469.01	3469.98	3514.98	-0.01	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	6269.01	633332	634000	Tune-up limit (dBm)	MPR (dB)	
				3468.01	3469.98	3519.99	-0.01	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	6231.34	633332	635532	Tune-up limit (dBm)	MPR (dB)	
				3467.01	3469.98	3529.98	-0.01	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	6210.10	633332	636966	Tune-up limit (dBm)	MPR (dB)	
				3466.01	3469.98	3534.99	-0.01	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	6191.00	633332	638000	Tune-up limit (dBm)	MPR (dB)	
				3465.01	3469.98	3540	-0.01	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	6174.12	633332	639532	Range limit (dBm)	MPR (dB)	
				3464.01	3469.98	3542.99	-0.01	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	6159.75	633332	640532	Tune-up limit (dBm)	MPR (dB)	
				3463.01	3469.98	3544.98	-0.01	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	6147.12	633332	641532	Tune-up limit (dBm)	MPR (dB)	
				3462.01	3469.98	3546.98	-0.01	0.0	



Par27Q n77_Ant 10_HPUE								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	12.14	12.11		13.5	0.0
100	PQ2 BPSK	1	137	12.13				
100	PQ2 BPSK	1	271	12.13				
100	PQ2 BPSK	135	0	12.12			13.5	0.0
100	PQ2 BPSK	135	69	12.21			13.5	0.0
100	PQ2 BPSK	135	138	12.05			13.5	0.0
100	PQ2 BPSK	270	0	12.12				
100	QPSK	1	1	12.29				
100	QPSK	1	137	12.17			13.5	0.0
100	QPSK	1	271	12.04				
100	QPSK	135	0	12.10				
100	QPSK	135	69	12.25			13.5	0.0
100	QPSK	135	138	12.05				
100	QPSK	270	0	12.16			13.5	0.0
100	16QAM	1	1	12.18			13.5	0.0
100	64QAM	1	1	12.22			13.5	0.0
100	256QAM	1	1	12.12			13.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.11	12.10	12.07	13.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.09	12.11	12.15	13.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.09	12.21	12.10	13.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.05	12.21	12.08	13.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.05	12.15	12.01	13.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.10	12.10	12.13	13.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.17	12.16	12.07	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.14	12.20	12.01	13.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.05	12.13	12.16	13.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.01	12.22	12.15	13.5	0.0

Par270 n78_Ant 4								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	15.44			16.5	0.0
100	PQ2 BPSK	1	137	15.45				
100	PQ2 BPSK	1	271	15.41				
100	PQ2 BPSK	135	0	15.39			16.5	0.0
100	PQ2 BPSK	135	69	15.47			16.5	0.0
100	PQ2 BPSK	135	138	15.47			16.5	0.0
100	PQ2 BPSK	270	0	15.39				
100	QPSK	1	1	15.52			16.5	0.0
100	QPSK	1	137	15.49				
100	QPSK	1	271	15.38				
100	QPSK	135	0	15.49				
100	QPSK	135	69	15.58			16.5	0.0
100	QPSK	135	138	15.48				
100	QPSK	270	0	15.43			16.5	0.0
100	16QAM	1	1	15.46			16.5	0.0
100	64QAM	1	1	15.49			16.5	0.0
100	256QAM	1	1	15.42			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.40	15.45	15.49	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.48	15.49	15.43	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.48	15.43	15.39	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.49	15.47	15.47	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.50	15.46	15.44	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.43	15.47	15.39	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.46	15.42	15.42	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.49	15.45	15.51	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.44	15.40	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.45	15.45	15.41	16.5	0.0

Par270 n78_Ant 4_HPUE								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	15.44			16.5	0.0
100	PQ2 BPSK	1	137	15.45				
100	PQ2 BPSK	1	271	15.41				
100	PQ2 BPSK	135	0	15.39			16.5	0.0
100	PQ2 BPSK	135	69	15.47			16.5	0.0
100	PQ2 BPSK	135	138	15.47			16.5	0.0
100	PQ2 BPSK	270	0	15.39				
100	QPSK	1	1	15.52			16.5	0.0
100	QPSK	1	137	15.49				
100	QPSK	1	271	15.38				
100	QPSK	135	0	15.49				
100	QPSK	135	69	15.58			16.5	0.0
100	QPSK	135	138	15.48				
100	QPSK	270	0	15.43			16.5	0.0
100	16QAM	1	1	15.46			16.5	0.0
100	64QAM	1	1	15.49			16.5	0.0
100	256QAM	1	1	15.42			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.40	15.45	15.49	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.48	15.49	15.43	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.48	15.43	15.39	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.49	15.47	15.47	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.50	15.46	15.44	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.43	15.47	15.39	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.46	15.42	15.42	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.49	15.45	15.51	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.44	15.40	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.45	15.45	15.41	16.5	0.0



Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				633332		3499.98			
Frequency (MHz)				15.42					
100	PI2 BPSK	1	1		15.42		16.5	0.0	
100	PI2 BPSK	1	137		15.38				
100	PI2 BPSK	1	271		15.40				
100	PI2 BPSK	135	0		15.34		16.5	0.0	
100	PI2 BPSK	135	69		15.37		16.5	0.0	
100	PI2 BPSK	135	138		15.39		16.5	0.0	
100	PI2 BPSK	270	0		15.34				
100	QPSK	1	1		15.43				
100	QPSK	1	137		15.42		16.5	0.0	
100	QPSK	1	271		15.36				
100	QPSK	135	0		15.38				
100	QPSK	135	69		15.42		16.5	0.0	
100	QPSK	135	138		15.39				
100	QPSK	270	0		15.28				
100	16QAM	1	1		15.34		16.5	0.0	
100	64QAM	1	1		15.28		16.5	0.0	
100	256QAM	1	1		15.35		16.5	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	15.35	15.38	15.35	16.5	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(db)	
80	QPSK	1	1	15.35	15.28	15.39	16.5	0.0	
Channel				633334	633332	633332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(db)	
70	QPSK	1	1	15.29	15.35	15.42	16.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3485	3499.98	3518.99	(dbm)	(db)	
60	QPSK	1	1	15.37	15.31	15.37	16.5	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(db)	
50	QPSK	1	1	15.29	15.42	15.32	16.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(db)	
40	QPSK	1	1	15.40	15.31	15.39	16.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(db)	
30	QPSK	1	1	15.42	15.30	15.40	16.5	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(db)	
20	QPSK	1	1	15.37	15.36	15.35	16.5	0.0	
Channel				630300	633332	636166	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dbm)	(db)	
15	QPSK	1	1	15.32	15.40	15.30	16.5	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dbm)	(db)	
10	QPSK	1	1	15.35	15.35	15.40	16.5	0.0	

Part27Q n78_Ant 4_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power MPR4 Ch./ Freq.	Power High Ch./ Freq.	Tune-up time (dbm)	MPR (db)	
Channel				633332		3499.98			
Frequency (MHz)				15.42					
100	PI2 BPSK	1	1		15.42		16.5	0.0	
100	PI2 BPSK	1	137		15.38				
100	PI2 BPSK	1	271		15.40				
100	PI2 BPSK	135	0		15.34		16.5	0.0	
100	PI2 BPSK	135	69		15.37		16.5	0.0	
100	PI2 BPSK	135	138		15.39		16.5	0.0	
100	PI2 BPSK	270	0		15.34				
100	QPSK	1	1		15.43				
100	QPSK	1	137		15.42		16.5	0.0	
100	QPSK	1	271		15.38				
100	QPSK	135	0		15.38				
100	QPSK	135	69		15.42		16.5	0.0	
100	QPSK	135	138		15.39				
100	QPSK	270	0		15.28				
100	16QAM	1	1		15.34		16.5	0.0	
100	64QAM	1	1		15.28		16.5	0.0	
100	256QAM	1	1		15.35		16.5	0.0	
Channel				633000	633332	633666	Tune-up time	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(db)	
90	QPSK	1	1	15.35	15.38	15.35	16.5	0.0	
Channel				632668	633332	634000	Tune-up time	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(db)	
80	QPSK	1	1	15.35	15.28	15.39	16.5	0.0	
Channel				633334	633332	633332	Tune-up time	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dbm)	(db)	
70	QPSK	1	1	15.29	15.35	15.42	16.5	0.0	
Channel				632000	633332	634666	Tune-up time	MPR	
Frequency (MHz)				3485	3499.98	3518.99	(dbm)	(db)	
60	QPSK	1	1	15.37	15.31	15.37	16.5	0.0	
Channel				631668	633332	635000	Tune-up time	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(db)	
50	QPSK	1	1	15.29	15.42	15.32	16.5	0.0	
Channel				631334	633332	635332	Tune-up time	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(db)	
40	QPSK	1	1	15.40	15.31	15.39	16.5	0.0	
Channel				631000	633332	635666	Tune-up time	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(db)	
30	QPSK	1	1	15.42	15.30	15.40	16.5	0.0	
Channel				630668	633332	636000	Tune-up time	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(db)	
20	QPSK	1	1	15.37	15.36	15.35	16.5	0.0	
Channel				630300	633332	636166	Tune-up time	MPR	
Frequency (MHz)				3457.5	3499.98	3542.49	(dbm)	(db)	
15	QPSK	1	1	15.32	15.40	15.30	16.5	0.0	
Channel				630334	633332	636332	Tune-up time	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dbm)	(db)	
10	QPSK	1	1	15.35	15.35	15.40	16.5	0.0	



Par270 n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (500000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750					
Frequency (MHz)				14.47					
100	PQ2 BPSK	1	1		16.53		18.0	0.0	
100	PQ2 BPSK	1	137		16.53				
100	PQ2 BPSK	1	271		16.53				
100	PQ2 BPSK	135	0		16.55		18.0	0.0	
100	PQ2 BPSK	135	69		16.49		18.0	0.0	
100	PQ2 BPSK	135	138		16.44		18.0	0.0	
100	PQ2 BPSK	270	0		16.53				
100	QPSK	1	1		16.57				
100	QPSK	1	137		16.56		18.0	0.0	
100	QPSK	1	271		16.45				
100	QPSK	135	0		16.46				
100	QPSK	135	69		16.53		18.0	0.0	
100	QPSK	135	138		16.48				
100	QPSK	270	0		16.52		18.0	0.0	
100	16QAM	1	1		16.45		18.0	0.0	
100	64QAM	1	1		16.53		18.0	0.0	
100	256QAM	1	1		16.46		18.0	0.0	
Channel				649698	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1	16.54	16.48	16.55	18.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.99			
80	QPSK	1	1	16.46	16.49	16.44	18.0	0.0	
Channel				649500	650000	650500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.46	16.43	16.42	18.0	0.0	
Channel				649998	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750.00	3750	3763.98			
60	QPSK	1	1	16.52	16.51	16.51	18.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.43	16.48	16.52	18.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.54	16.47	16.48	18.0	0.0	
Channel				647698	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3764.98			
30	QPSK	1	1	16.48	16.54	16.52	18.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3769.99			
20	QPSK	1	1	16.46	16.52	16.45	18.0	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.65	3750	3762.48			
15	QPSK	1	1	16.55	16.48	16.44	18.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.50	16.55	16.52	18.0	0.0	

Par270 n78_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (500000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750					
Frequency (MHz)				14.47					
100	PQ2 BPSK	1	1		16.53		18.0	0.0	
100	PQ2 BPSK	1	137		16.53				
100	PQ2 BPSK	1	271		16.53				
100	PQ2 BPSK	135	0		16.55		18.0	0.0	
100	PQ2 BPSK	135	69		16.49		18.0	0.0	
100	PQ2 BPSK	135	138		16.44		18.0	0.0	
100	PQ2 BPSK	270	0		16.53				
100	QPSK	1	1		16.57				
100	QPSK	1	137		16.56		18.0	0.0	
100	QPSK	1	271		16.45				
100	QPSK	135	0		16.46				
100	QPSK	135	69		16.53		18.0	0.0	
100	QPSK	135	138		16.48				
100	QPSK	270	0		16.52		18.0	0.0	
100	16QAM	1	1		16.45		18.0	0.0	
100	64QAM	1	1		16.53		18.0	0.0	
100	256QAM	1	1		16.46		18.0	0.0	
Channel				649698	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1	16.54	16.48	16.55	18.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.99			
80	QPSK	1	1	16.46	16.49	16.44	18.0	0.0	
Channel				649500	650000	650500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.46	16.43	16.42	18.0	0.0	
Channel				649998	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3750.00	3750	3763.98			
60	QPSK	1	1	16.52	16.51	16.51	18.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3774.99			
50	QPSK	1	1	16.43	16.48	16.52	18.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.54	16.47	16.48	18.0	0.0	
Channel				647698	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3764.98			
30	QPSK	1	1	16.48	16.54	16.52	18.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3769.99			
20	QPSK	1	1	16.46	16.52	16.45	18.0	0.0	
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.65	3750	3762.48			
15	QPSK	1	1	16.55	16.48	16.44	18.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.50	16.55	16.52	18.0	0.0	

Part27Q n78_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		16.43		18.0	0.0
100	PI2 BPSK	1	137		16.44			
100	PI2 BPSK	1	271		16.48			
100	PI2 BPSK	135	0		16.43		18.0	0.0
100	PI2 BPSK	135	69		16.39		18.0	0.0
100	PI2 BPSK	135	138		16.49		18.0	0.0
100	PI2 BPSK	270	0		16.39		18.0	0.0
100	QPSK	1	1		16.50		18.0	0.0
100	QPSK	1	137		16.47			
100	QPSK	1	271		16.41			
100	QPSK	135	0		16.38		18.0	0.0
100	QPSK	135	69		16.46			
100	QPSK	135	138		16.45			
100	QPSK	270	0		16.38		18.0	0.0
100	16QAM	1	1		16.35		18.0	0.0
100	64QAM	1	1		16.37		18.0	0.0
100	256QAM	1	1		16.40		18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.47	16.42	16.44	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.35	16.41	16.43	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.49	16.44	16.43	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.41	16.47	16.39	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.42	16.45	16.40	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.43	16.37	16.38	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.45	16.37	16.38	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.45	16.38	16.38	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.44	16.45	16.37	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.37	16.43	16.37	18.0	0.0

Part27Q n78_Ant 7_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		16.43		18.0	0.0
100	PI2 BPSK	1	137		16.44			
100	PI2 BPSK	1	271		16.48			
100	PI2 BPSK	135	0		16.43		18.0	0.0
100	PI2 BPSK	135	69		16.39		18.0	0.0
100	PI2 BPSK	135	138		16.49		18.0	0.0
100	PI2 BPSK	270	0		16.39		18.0	0.0
100	QPSK	1	1		16.50		18.0	0.0
100	QPSK	1	137		16.47			
100	QPSK	1	271		16.41			
100	QPSK	135	0		16.38		18.0	0.0
100	QPSK	135	69		16.46			
100	QPSK	135	138		16.45			
100	QPSK	270	0		16.38		18.0	0.0
100	16QAM	1	1		16.35		18.0	0.0
100	64QAM	1	1		16.37		18.0	0.0
100	256QAM	1	1		16.40		18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.47	16.42	16.44	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.35	16.41	16.43	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.49	16.44	16.43	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.41	16.47	16.39	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.42	16.45	16.40	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.43	16.43	16.40	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.45	16.37	16.38	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.45	16.38	16.38	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.44	16.45	16.37	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.37	16.43	16.37	18.0	0.0



Par270 n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mod. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.52		19.0	0.0	
100	PI2 BPSK	1	137		17.55				
100	PI2 BPSK	1	271		17.56				
100	PI2 BPSK	135	0		17.53		19.0	0.0	
100	PI2 BPSK	135	69		17.42		19.0	0.0	
100	PI2 BPSK	135	138		17.51		19.0	0.0	
100	PI2 BPSK	270	0		17.38		19.0	0.0	
100	QPSK	1	1		17.58				
100	QPSK	1	137		17.41				
100	QPSK	1	271		17.44		19.0	0.0	
100	QPSK	135	0		17.44				
100	QPSK	135	69		17.53				
100	QPSK	135	138		17.35		19.0	0.0	
100	QPSK	270	0		17.51		19.0	0.0	
100	16QAM	1	1		17.53		19.0	0.0	
100	64QAM	1	1		17.53		19.0	0.0	
100	256QAM	1	1		16.81		18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.45	17.50	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.45	17.50	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.40	17.45	17.36	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.49	17.40	17.39	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.40	17.53	17.52	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.40	17.50	17.41	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.57	17.57	17.35	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.43	17.40	17.36	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.39	17.47	17.50	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.57	17.48	17.52	19.0	0.0	

Par270 n78_Ant 8_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modula Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)					3765				
100	PI2 BPSK	1	1	17.52	17.52		19.0	0.0	
100	PI2 BPSK	1	137		17.55				
100	PI2 BPSK	1	271		17.56				
100	PI2 BPSK	135	0		17.53		19.0	0.0	
100	PI2 BPSK	135	69		17.42		19.0	0.0	
100	PI2 BPSK	135	138		17.51		19.0	0.0	
100	PI2 BPSK	270	0		17.38		19.0	0.0	
100	QPSK	1	1		17.58				
100	QPSK	1	137		17.41				
100	QPSK	1	271		17.40		19.0	0.0	
100	QPSK	135	0		17.44				
100	QPSK	135	69		17.53				
100	QPSK	135	138		17.35		19.0	0.0	
100	QPSK	270	0		17.51		19.0	0.0	
100	16QAM	1	1		17.53		19.0	0.0	
100	64QAM	1	1		17.53		19.0	0.0	
100	256QAM	1	1		16.81		18.5	0.5	
Channel									
Frequency (MHz)					649688	650000	650532	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	17.45	17.50	17.44	19.0	0.0	
Channel									
Frequency (MHz)					649534	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.60	17.51	17.59	19.0	0.0	
Channel									
Frequency (MHz)					649500	650000	650500	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	17.57	17.44	17.38	19.0	0.0	
Channel									
Frequency (MHz)					649459	650000	650523	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.49	17.40	17.39	19.0	0.0	
Channel									
Frequency (MHz)					648334	650000	651696	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.40	17.53	17.52	19.0	0.0	
Channel									
Frequency (MHz)					648000	650000	650500	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.40	17.49	17.41	19.0	0.0	
Channel									
Frequency (MHz)					647688	650000	652532	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.57	17.50	17.48	19.0	0.0	
Channel									
Frequency (MHz)					647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.43	17.40	17.36	19.0	0.0	
Channel									
Frequency (MHz)					647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.39	17.47	17.50	19.0	0.0	
Channel									
Frequency (MHz)					646700	650000	652500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.57	17.48	17.52	19.0	0.0	

Part27Q n78_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332			
Frequency (MHz)				3493.98				
100	PQ2 BPSK	1	1	17.45				
100	PQ2 BPSK	1	137	17.53			19.0	0.0
100	PQ2 BPSK	1	271	17.56				
100	PQ2 BPSK	135	0	17.58			19.0	0.0
100	PQ2 BPSK	135	69	17.54			19.0	0.0
100	PQ2 BPSK	135	138	17.39				
100	PQ2 BPSK	270	0	17.51			19.0	0.0
100	QPSK	1	1	17.59				
100	QPSK	1	137	17.57			19.0	0.0
100	QPSK	1	271	17.45				
100	QPSK	135	0	17.47				
100	QPSK	135	69	17.55			19.0	0.0
100	QPSK	135	138	17.38				
100	QPSK	270	0	17.50			19.0	0.0
100	16QAM	1	1	17.45			19.0	0.0
100	64QAM	1	1	17.46			19.0	0.0
100	256QAM	1	1	16.23			17.5	1.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	17.40	17.37	17.37	19.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	17.36	17.49	17.35	19.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	17.44	17.52	17.47	19.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3518.99		
60	QPSK	1	1	17.46	17.53	17.37	19.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3520		
50	QPSK	1	1	17.34	17.35	17.33	19.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	17.33	17.44	17.33	19.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	17.46	17.41	17.28	19.0	0.0
Channel				3460.02	3499.98	3540		
20	QPSK	1	1	17.51	17.48	17.35	19.0	0.0
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.99		
15	QPSK	1	1	17.37	17.47	17.44	19.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	17.42	17.45	17.37	19.0	0.0

Part27Q n78_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332			
Frequency (MHz)				3499.98				
100	PQ2 BPSK	1	1	17.48				
100	PQ2 BPSK	1	137	17.53			19.0	0.0
100	PQ2 BPSK	1	271	17.56				
100	PQ2 BPSK	135	0	17.58			19.0	0.0
100	PQ2 BPSK	135	69	17.54			19.0	0.0
100	PQ2 BPSK	135	138	17.39				
100	PQ2 BPSK	270	0	17.51			19.0	0.0
100	QPSK	1	1	17.59				
100	QPSK	1	137	17.57			19.0	0.0
100	QPSK	1	271	17.45				
100	QPSK	135	0	17.47				
100	QPSK	135	69	17.55			19.0	0.0
100	QPSK	135	138	17.38				
100	QPSK	270	0	17.50			19.0	0.0
100	16QAM	1	1	17.45			19.0	0.0
100	64QAM	1	1	17.46			19.0	0.0
100	256QAM	1	1	16.23			17.5	1.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	17.40	17.37	17.37	19.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	17.36	17.49	17.35	19.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	17.44	17.52	17.47	19.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3518.99		
60	QPSK	1	1	17.46	17.53	17.37	19.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3520		
50	QPSK	1	1	17.34	17.35	17.33	19.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	17.33	17.44	17.33	19.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	17.46	17.41	17.28	19.0	0.0
Channel				3460.02	3499.98	3540		
20	QPSK	1	1	17.51	17.48	17.35	19.0	0.0
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.99		
15	QPSK	1	1	17.37	17.47	17.44	19.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	17.42	17.45	17.37	19.0	0.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	12.04	3750		
100	PI2 BPSK	1	137	12.13		13.5	0.0
100	PI2 BPSK	1	271	11.96			
100	PI2 BPSK	135	0	11.96		13.5	0.0
100	PI2 BPSK	135	69	12.03		13.5	0.0
100	PI2 BPSK	135	138	12.10			
100	PI2 BPSK	270	0	12.01		13.5	0.0
100	QPSK	1	1	12.14			
100	QPSK	1	137	11.93		13.5	0.0
100	QPSK	1	271	11.95			
100	QPSK	135	0	11.98			
100	QPSK	135	69	12.06		13.5	0.0
100	QPSK	135	138	11.97			
100	QPSK	270	0	12.03		13.5	0.0
100	16QAM	1	1	11.89		13.5	0.0
100	64QAM	1	1	12.05		13.5	0.0
100	256QAM	1	1	12.05		13.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.90	12.01	11.59	13.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	11.86	12.06	11.95	13.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	12.05	12.01	11.93	13.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	11.87	11.98	12.08	13.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.95	11.99	11.94	13.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	12.05	11.97	12.05	13.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	12.05	11.97	12.05	13.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	11.98	12.06	11.93	13.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.88	12.06	12.06	13.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.91	12.03	12.07	13.5 0.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	12.04	3750		
100	PI2 BPSK	1	137	12.13		13.5	0.0
100	PI2 BPSK	1	271	11.96			
100	PI2 BPSK	135	0	11.96		13.5	0.0
100	PI2 BPSK	135	69	12.03		13.5	0.0
100	PI2 BPSK	135	138	12.10			
100	PI2 BPSK	270	0	12.01		13.5	0.0
100	QPSK	1	1	12.14			
100	QPSK	1	137	11.93		13.5	0.0
100	QPSK	1	271	11.95			
100	QPSK	135	0	11.98			
100	QPSK	135	69	12.06		13.5	0.0
100	QPSK	135	138	11.97			
100	QPSK	270	0	12.03		13.5	0.0
100	16QAM	1	1	11.89		13.5	0.0
100	64QAM	1	1	12.05		13.5	0.0
100	256QAM	1	1	12.05		13.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.90	12.01	11.59	13.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	11.86	12.06	11.95	13.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	12.05	12.01	11.93	13.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	11.87	11.98	12.08	13.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.95	11.99	11.94	13.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	12.05	11.97	12.05	13.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	12.05	11.97	12.05	13.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	11.98	12.06	11.93	13.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.88	12.06	12.06	13.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.91	12.03	12.07	13.5 0.0



Part27Q n78_Ant 10									
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)				633332		3493.98			
100	PI2 BPSK	1	1	12.12			13.5	0.0	
100	PI2 BPSK	1	137	12.11					
100	PI2 BPSK	1	271	12.04					
100	PI2 BPSK	135	0	12.17			13.5	0.0	
100	PI2 BPSK	135	69	12.10			13.5	0.0	
100	PI2 BPSK	135	138	11.98			13.5	0.0	
100	PI2 BPSK	270	0	11.97					
100	QPSK	1	1	12.19					
100	QPSK	1	137	12.11			13.5	0.0	
100	QPSK	1	271	12.08					
100	QPSK	135	0	12.08					
100	QPSK	135	69	12.13			13.5	0.0	
100	QPSK	135	138	12.01					
100	QPSK	270	0	12.11					
100	16QAM	1	1	12.09			13.5	0.0	
100	64QAM	1	1	12.02			13.5	0.0	
100	256QAM	1	1	11.99			13.5	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3493	3493.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	11.99	12.08	12.01	13.5	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3486.02	3493.98	3510	(dBm)	(dB)	
80	QPSK	1	1	12.01	12.11	12.10	13.5	0.0	
Channel				633334	633332	633332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3493.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	12.06	12.08	11.97	13.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3484	3493.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	12.00	12.14	12.08	13.5	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3493.98	3525	(dBm)	(dB)	
50	QPSK	1	1	11.97	12.00	12.00	13.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3493.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	12.03	12.11	11.95	13.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3493.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	11.96	12.06	11.96	13.5	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3493.98	3540	(dBm)	(dB)	
20	QPSK	1	1	12.00	12.11	11.99	13.5	0.0	
Channel				630000	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3452.5	3493.98	3542.99	(dBm)	(dB)	
15	QPSK	1	1	12.07	12.02	11.96	13.5	0.0	
Channel				630334	633332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3493.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	11.89	11.90	11.92	13.5	0.0	

Part27Q n78_Ant 10_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Mid Ch./ Freq.	Power High Ch./ Freq.	Tune-up time (dtm)	MPR (db)	
Channel									
Frequency (MHz)				633332		3493.98			
100	PI2 BPSK	1	1	12.12			13.5	0.0	
100	PI2 BPSK	1	137	12.11					
100	PI2 BPSK	1	271	12.04					
100	PI2 BPSK	135	0	12.17			13.5	0.0	
100	PI2 BPSK	135	69	12.10			13.5	0.0	
100	PI2 BPSK	135	138	11.98			13.5	0.0	
100	PI2 BPSK	270	0	11.97					
100	QPSK	1	1	12.19					
100	QPSK	1	137	12.11			13.5	0.0	
100	QPSK	1	271	12.06					
100	QPSK	135	0	12.08					
100	QPSK	135	69	12.13			13.5	0.0	
100	QPSK	135	138	12.01					
100	QPSK	270	0	12.11					
100	16QAM	1	1	12.09			13.5	0.0	
100	64QAM	1	1	12.02			13.5	0.0	
100	256QAM	1	1	11.99			13.5	0.0	
Channel				633000	633332	633666	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3493	3493.98	3504.99			
90	QPSK	1	1	11.99	12.08	12.01	13.5	0.0	
Channel				632668	633332	634000	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3486.02	3493.98	3510			
80	QPSK	1	1	12.01	12.11	12.10	13.5	0.0	
Channel				633334	633332	633332	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3485.01	3493.98	3514.98			
70	QPSK	1	1	12.06	12.08	11.97	13.5	0.0	
Channel				632000	633332	634666	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3484	3493.98	3518.99			
60	QPSK	1	1	12.00	12.14	12.08	13.5	0.0	
Channel				631668	633332	635000	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3475.02	3493.98	3525			
50	QPSK	1	1	11.97	12.00	12.00	13.5	0.0	
Channel				631334	633332	635332	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3470.01	3493.98	3529.98			
40	QPSK	1	1	12.03	12.11	11.95	13.5	0.0	
Channel				631000	633332	635666	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3465	3493.98	3534.99			
30	QPSK	1	1	11.96	12.06	11.96	13.5	0.0	
Channel				630668	633332	636000	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3460.02	3493.98	3540			
20	QPSK	1	1	12.00	12.11	11.99	13.5	0.0	
Channel				630000	633332	636366	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3452.5	3493.98	3542.99			
15	QPSK	1	1	12.07	12.02	11.96	13.5	0.0	
Channel				630334	633332	636332	Tune-up time (dtm)	MPR (db)	
Frequency (MHz)				3453.01	3493.98	3544.98			
10	QPSK	1	1	11.89	11.90	11.82	13.5	0.0	



Reduced Power Mode for DSI3 + Sim

n2_Ant 0									
BW [MHz]	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	18.0	0.0	
Frequency (MHz)				1660	1680	1900			
20	PI2 BPSK	1	1	16.68	16.75	16.69	18.0	0.0	
20	PI2 BPSK	1	53	16.65	16.77	16.67			
20	PI2 BPSK	1	104	16.75	16.83	16.67	18.0	0.0	
20	PI2 BPSK	50	0	16.73	16.76	16.66	18.0	0.0	
20	PI2 BPSK	50	28	16.75	16.80	16.60	18.0	0.0	
20	PI2 BPSK	50	56	16.66	16.77	16.57	18.0	0.0	
20	PI2 BPSK	100	0	16.84	16.81	16.61	18.0	0.0	
20	QPSK	1	1	16.77	16.88	16.72			
20	QPSK	1	53	16.67	16.76	16.65	18.0	0.0	
20	QPSK	1	104	16.71	16.73	16.68			
20	QPSK	50	0	16.65	16.83	16.63	18.0	0.0	
20	QPSK	50	28	16.73	16.84	16.67	18.0	0.0	
20	QPSK	50	56	16.66	16.80	16.63	18.0	0.0	
20	QPSK	100	0	16.74	16.75	16.64	18.0	0.0	
20	16QAM	1	1	16.66	16.74	16.66			
20	64QAM	1	1	16.75	16.77	16.59	18.0	0.0	
20	256QAM	1	1	16.71	16.78	16.65	18.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1907.5	1900	1902.5	18.0	0.0	
15	QPSK	1	1	16.73	16.86	16.60	18.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1895	1880	1895	18.0	0.0	
10	QPSK	1	1	16.68	16.79	16.68	18.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1907.5	18.0	0.0	
5	QPSK	1	1	16.64	16.81	16.62	18.0	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	16.0	0.0	
Frequency (MHz)				1660	1680	1900			
20	PI2 BPSK	1	1	14.24	14.21	14.18	16.0	0.0	
20	PI2 BPSK	1	53	14.18	14.31	14.30			
20	PI2 BPSK	1	104	14.32	14.21	14.17	16.0	0.0	
20	PI2 BPSK	50	0	14.31	14.24	14.26	16.0	0.0	
20	PI2 BPSK	50	28	14.28	14.34	14.17	16.0	0.0	
20	PI2 BPSK	50	56	14.20	14.24	14.25	16.0	0.0	
20	PI2 BPSK	100	0	14.27	14.22	14.17	16.0	0.0	
20	QPSK	1	1	14.33	14.35	14.32			
20	QPSK	1	53	14.27	14.33	14.22	16.0	0.0	
20	QPSK	1	104	14.18	14.29	14.31			
20	QPSK	50	0	14.23	14.31	14.23	16.0	0.0	
20	QPSK	50	28	14.31	14.33	14.26	16.0	0.0	
20	QPSK	50	56	14.30	14.29	14.22	16.0	0.0	
20	QPSK	100	0	14.24	14.27	14.22	16.0	0.0	
20	16QAM	1	1	14.26	14.27	14.31			
20	64QAM	1	1	14.27	14.27	14.25	16.0	0.0	
20	256QAM	1	1	14.28	14.33	14.28	16.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1907.5	1900	1902.5	16.0	0.0	
15	QPSK	1	1	14.28	14.29	14.20	16.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1895	1880	1895	16.0	0.0	
10	QPSK	1	1	14.29	14.32	14.19	16.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1907.5	16.0	0.0	
5	QPSK	1	1	14.30	14.33	14.25	16.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167200	167900	24.0	0.0	
Frequency (MHz)				834	846.5	859			
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.84	22.79			
20	PI2 BPSK	1	104	22.81	22.90	22.79	24.0	0.0	
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.76	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	16QAM	1	1	22.77	22.81	22.75			
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166300	167300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	846.5	841.5	18.0	0.0	
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	846.5	844	18.0	0.0	
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	846.5	846.5	18.0	0.0	
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0	



n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				834	1636.5	834	24.0	0.0	
Frequency (MHz)				22.70	22.72	22.63			
20	PI2 BPSK	1	1	22.67	22.75	22.68			
20	PI2 BPSK	1	53	22.67	22.75	22.68	24.0	0.0	
20	PI2 BPSK	1	104	22.70	22.73	22.63			
20	PI2 BPSK	50	0	22.60	22.71	22.52			
20	PI2 BPSK	50	26	22.67	22.75	22.60	24.0	0.0	
20	PI2 BPSK	50	56	22.56	22.71	22.58			
20	PI2 BPSK	100	0	22.56	22.64	22.55			
20	QPSK	1	1	22.73	22.76	22.65	24.0	0.0	
20	QPSK	1	53	22.61	22.66	22.50			
20	QPSK	1	104	22.57	22.68	22.50			
20	QPSK	50	0	22.61	22.66	22.52	24.0	0.0	
20	QPSK	50	26	22.62	22.72	22.57			
20	QPSK	50	56	22.61	22.67	22.50		24.0	
20	QPSK	100	0	22.60	22.64	22.49			
20	16QAM	1	1	22.63	22.61	22.65	22.5	1.5	
20	64QAM	1	1	21.34	21.45	21.37			
20	256QAM	1	1	19.33	19.36	19.28			
Channel				166300	167300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1631.5	1636.5	1641.5			
15	QPSK	1	1	22.66	22.73	22.55		24.0	
Channel				166080	167300	166880	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	1636.5	844			
10	QPSK	1	1	22.63	22.73	22.50		24.0	
Channel				166300	167300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	1636.5	846.5			
5	QPSK	1	1	22.63	22.72	22.49		24.0	
Channel				166300	167300	166300			
Frequency (MHz)				836.5	1636.5	846.5			

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	506000	19.0	0.0	
Frequency (MHz)				17.91	18.07	18.00			
40	PI2 BPSK	1	1	17.89	18.05	18.00			
40	PI2 BPSK	1	108	17.89	18.05	18.00	19.0	0.0	
40	PI2 BPSK	1	214	17.97	17.98	17.92			
40	PI2 BPSK	108	0	17.88	17.94	17.96			
40	PI2 BPSK	108	54	18.00	18.05	18.00	19.0	0.0	
40	PI2 BPSK	108	108	17.98	17.96	18.00			
40	PI2 BPSK	216	0	17.89	18.00	17.95			
40	QPSK	1	1	18.03	18.08	18.05	19.0	0.0	
40	QPSK	1	108	17.97	17.96	18.02			
40	QPSK	1	214	18.02	17.92	18.01			
40	QPSK	108	0	17.94	17.89	17.99	19.0	0.0	
40	QPSK	108	54	17.93	18.08	18.05			
40	QPSK	108	108	17.95	18.06	17.92		19.0	
40	QPSK	216	0	17.93	18.02	17.94			
40	16QAM	1	1	17.94	18.05	17.95	19.0	0.0	
40	64QAM	1	1	17.95	18.07	17.94			
40	256QAM	1	1	17.99	18.00	17.91			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.93	18.03	17.93		19.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2534	2557.5			
25	QPSK	1	1	17.97	17.94	18.01		19.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.01	18.00	18.01		19.0	
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.91	18.08	18.02		19.0	
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2566			
10	QPSK	1	1	17.99	17.94	18.01	19.0	0.0	
Channel				500500	507000	512000			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.01	18.06	17.92	19.0	0.0	

n7_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	506000	20.0	0.0	
Frequency (MHz)				18.90	18.93	18.86			
40	PI2 BPSK	1	1	18.89	18.95	18.91			
40	PI2 BPSK	1	108	18.82	18.95	18.91	20.0	0.0	
40	PI2 BPSK	1	214	18.87	18.89	18.97			
40	PI2 BPSK	108	0	18.90	18.95	18.93			
40	PI2 BPSK	108	54	18.78	18.98	18.88	20.0	0.0	
40	PI2 BPSK	108	108	18.81	18.91	18.94			
40	PI2 BPSK	216	0	18.89	18.92	18.97			
40	QPSK	1	1	18.93	19.02	19.00	20.0	0.0	
40	QPSK	1	108	18.80	18.98	18.90			
40	QPSK	1	214	18.82	18.93	18.99			
40	QPSK	108	0	18.81	18.91	18.85	20.0	0.0	
40	QPSK	108	54	18.83	18.99	18.95			
40	QPSK	108	108	18.81	18.98	18.92		20.0	
40	QPSK	216	0	18.82	18.96	18.93			
40	16QAM	1	1	18.79	18.99	18.92	20.0	0.0	
40	64QAM	1	1	18.79	18.98	18.90			
40	256QAM	1	1	18.85	18.97	18.92			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.81	18.87	18.91		20.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2534	2557.5			
25	QPSK	1	1	18.83	18.93	18.97		20.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.89	18.92	18.87		20.0	
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.82	18.88	18.88		20.0	
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2566			
10	QPSK	1	1	18.83	19.01	18.85	20.0	0.0	
Channel				500500	507000	512000			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.83	18.89	18.90	20.0	0.0	

n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77			
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71			
15	QPSK	1	1	22.85	22.82	22.82			
15	QPSK	1	40	22.74	22.75	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70	24.0	0.0	
15	QPSK	36	0	22.71	22.82	22.71			
15	QPSK	36	22	22.71	22.83	22.73			
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.76	22.83	22.76			
15	64QAM	1	1	21.67	21.80	21.79			
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	23.31	23.36	23.34	24.0	0.0	
15	P12 BPSK	1	40	23.23	23.31	23.23			
15	P12 BPSK	1	77	23.26	23.33	23.31			
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0	0.0	
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0	0.0	
15	P12 BPSK	36	43	23.11	23.24	23.17	24.0	0.0	
15	P12 BPSK	75	0	23.21	23.30	23.17			
15	P12 BPSK	75	0	23.27	23.37	23.30			
15	QPSK	1	1	23.16	23.22	23.19	24.0	0.0	
15	QPSK	1	40	23.11	23.27	23.18			
15	QPSK	1	77	23.11	23.27	23.18			
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0	
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0	
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0	
15	QPSK	75	0	23.12	23.29	23.23	24.0	0.0	
15	16QAM	1	1	23.19	23.32	23.15			
15	16QAM	1	1	22.13	22.19	22.17			
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0	

n14_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1		22.93		24.0	0.0	
10	P12 BPSK	1	26		22.91				
10	P12 BPSK	1	55		22.89				
10	P12 BPSK	25	0		22.92		24.0	0.0	
10	P12 BPSK	25	14		22.91		24.0	0.0	
10	P12 BPSK	25	27		22.82		24.0	0.0	
10	P12 BPSK	50	0		22.84				
10	QPSK	1	1		22.93				
10	QPSK	1	26		22.89		24.0	0.0	
10	QPSK	1	50		22.83				
10	QPSK	25	0		22.93				
10	QPSK	25	14		22.95		24.0	0.0	
10	QPSK	25	27		22.84		24.0	0.0	
10	QPSK	50	0		22.84		24.0	0.0	
10	16QAM	1	1		22.89				
10	16QAM	1	1		22.92				
10	256QAM	1	1		20.05		21.0	3.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	



n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbm)	MFR (dB)	
Channel				793					
Frequency (MHz)									
10	PI2 BPSK	1	1		21.44				
10	PI2 BPSK	1	26		21.54		23.0	0.0	
10	PI2 BPSK	1	50		21.66				
10	PI2 BPSK	25	0		21.50		23.0	0.0	
10	PI2 BPSK	25	14		21.49		23.0	0.0	
10	PI2 BPSK	25	27		21.48				
10	PI2 BPSK	50	0		21.45		23.0	0.0	
10	QPSK	1	1		21.58				
10	QPSK	1	26		21.50		23.0	0.0	
10	QPSK	1	50		21.48				
10	QPSK	25	0		21.47		23.0	0.0	
10	QPSK	25	14		21.58		23.0	0.0	
10	QPSK	25	27		21.54		23.0	0.0	
10	QPSK	50	0		21.53		23.0	0.0	
10	64QAM	1	1		21.45		23.0	0.0	
10	64QAM	1	1		21.44		23.0	0.0	
10	256QAM	1	1		19.89		21.0	2.0	
Channel				158180	158690	159100	Tune-up time (dbm)	MFR (dB)	
Frequency (MHz)				793.5	793	793.5			
5	QPSK	1	1		21.48	21.54	21.51	23.0	0.0

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbm)	MPR (db)	
Channel				374000	376000	378000			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	16.75	16.91	16.76			
40	PI2 BPSK	1	108	16.79	16.88	16.68	18.0	0.0	
40	PI2 BPSK	1	214	16.66	16.73	16.72			
40	PI2 BPSK	108	0	16.64	16.83	16.64	18.0	0.0	
40	PI2 BPSK	108	54	16.74	16.86	16.75	18.0	0.0	
40	PI2 BPSK	108	108	16.62	16.63	16.73			
40	PI2 BPSK	216	0	16.71	16.88	16.70	18.0	0.0	
Channel				1870	1882.5	1895			
40	QPSK	1	1	16.85	16.99	16.82			
40	QPSK	1	108	16.81	16.90	16.70	18.0	0.0	
40	QPSK	1	214	16.74	16.79	16.75			
40	QPSK	108	0	16.73	16.86	16.66	18.0	0.0	
40	QPSK	108	54	16.77	16.84	16.76	18.0	0.0	
40	QPSK	108	108	16.70	16.70	16.74	18.0	0.0	
40	QPSK	216	0	16.78	16.83	16.75			
40	16QAM	1	1	16.78	16.95	16.72	18.0	0.0	
40	64QAM	1	1	16.80	16.88	16.68	18.0	0.0	
40	256QAM	1	1	16.69	16.72	16.69	18.0	0.0	
Channel				373500	376000	378500	Tune-up time (dbm)	MFR (db)	
Frequency (MHz)				1867.5	1882.5	1897.5			
35	QPSK	1	1	16.77	16.93	16.69	18.0	0.0	
Channel				373000	376000	380000	Tune-up time (dbm)	MPR (db)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	16.73	16.90	16.73	18.0	0.0	
Channel				372500	376000	380000	Tune-up time (dbm)	MPR (db)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	16.70	16.82	16.68	18.0	0.0	
Channel				372000	376000	381000	Tune-up time (dbm)	MPR (db)	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1	16.73	16.90	16.67	18.0	0.0	
Channel				371500	376000	381000	Tune-up time (dbm)	MPR (db)	
Frequency (MHz)				1867.5	1882.5	1907.5			
15	QPSK	1	1	16.74	16.84	16.75	18.0	0.0	
Channel				371000	376000	382000	Tune-up time (dbm)	MPR (db)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	16.71	16.88	16.74	18.0	0.0	
Channel				370500	376000	382000	Tune-up time (dbm)	MPR (db)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	16.75	16.84	16.76	18.0	0.0	

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbm)	MFR (dB)	
Channel				374500	376000	378000			
Frequency (MHz)				1875	1882.5	1895			
40	PI2 BPSK	1	1		14.23	14.25	14.30		
40	PI2 BPSK	1	108		14.33	14.30	14.25		
40	PI2 BPSK	1	214		14.32	14.24	14.27		
40	PI2 BPSK	108	0		14.35	14.33	14.20	16.0	0.0
40	PI2 BPSK	108	54		14.25	14.35	14.23	16.0	0.0
40	PI2 BPSK	108	108		14.37	14.25	14.29		
40	PI2 BPSK	216	0		14.35	14.27	14.31		
40	QPSK	1	1		14.38	14.39	14.33		
40	QPSK	1	108		14.32	14.32	14.22		
40	QPSK	1	214		14.23	14.25	14.23		
40	QPSK	108	0		14.27	14.30	14.21	16.0	0.0
40	QPSK	108	54		14.32	14.35	14.25	16.0	0.0
40	QPSK	108	108		14.30	14.29	14.25		
40	QPSK	216	0		14.23	14.32	14.30		
40	16QAM	1	1		14.25	14.37	14.26	16.0	0.0
40	64QAM	1	1		14.35	14.37	14.19	16.0	0.0
40	256QAM	1	1		14.28	14.37	14.28	16.0	0.0
Channel				373500	376000	379500	Tune-up time (dbm)	MPR	
Frequency (MHz)				1867.5	1882.5	1897.5			
35	QPSK	1	1		14.35	14.25	14.30	16.0	0.0
Channel				373000	376000	380000	Tune-up time (dbm)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1		14.32	14.30	14.22	16.0	0.0
Channel				372500	376000	380000	Tune-up time (dbm)	MPR	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1		14.33	14.25	14.20	16.0	0.0
Channel				372000	376000	381000	Tune-up time (dbm)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	QPSK	1	1		14.36	14.35	14.20	16.0	0.0
Channel				371500	376000	381000	Tune-up time (dbm)	MPR	
Frequency (MHz)				1867.5	1882.5	1907.5			
15	QPSK	1	1		14.29	14.25	14.21	16.0	0.0
Channel				371000	376000	382000	Tune-up time (dbm)	MPR	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1		14.23	14.34	14.22	16.0	0.0
Channel				370500	376000	382000	Tune-up time (dbm)	MPR	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1		14.27	14.32	14.30	16.0	0.0

n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164400	166300	167800			
Frequency (MHz)				804	831.5	859			
20	P12 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.83	22.87			
20	P12 BPSK	1	104	22.85	22.79	22.88			
20	P12 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	P12 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	P12 BPSK	100	0	22.80	22.80	22.91			
20	QPSK	1	1	22.95	22.98	23.02	24.0	0.0	
20	QPSK	1	53	22.90	22.81	22.96			
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83			
20	16QAM	1	1	22.80	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164400	166300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				804	831.5	859			
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163300	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.92	22.80	22.86	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164400	166300	167800			
Frequency (MHz)				804	831.5	859			
20	P12 BPSK	1	1	22.88	22.88	22.87	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.78	22.80			
20	P12 BPSK	1	104	22.90	22.78	22.80			
20	P12 BPSK	50	0	22.85	22.87	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	P12 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	P12 BPSK	100	0	22.80	22.92	22.95			
20	QPSK	1	1	22.95	22.97	23.00	24.0	0.0	
20	QPSK	1	53	22.95	22.92	22.92			
20	QPSK	1	104	22.94	22.87	22.93			
20	QPSK	50	0	22.85	22.91	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86			
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	64QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164400	166300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				804	831.5	859			
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				163300	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.88	22.86	22.91	24.0	0.0	
Channel				163300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.85	22.87	22.90	24.0	0.0	

n30_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	16.59			18.5	0.0
10	PI2 BPSK	1	26	16.63				
10	PI2 BPSK	1	50	16.62				
10	PI2 BPSK	25	0	16.57			18.5	0.0
10	PI2 BPSK	25	14	16.54			18.5	0.0
10	PI2 BPSK	25	27	16.58				
10	PI2 BPSK	50	0	16.64				
10	QPSK	1	1	16.66			18.5	0.0
10	QPSK	1	26	16.59				
10	QPSK	1	50	16.55				
10	QPSK	25	0	16.64			18.5	0.0
10	QPSK	25	14	16.65			18.5	0.0
10	QPSK	25	27	16.52			18.5	0.0
10	QPSK	50	0	16.57			18.5	0.0
10	16QAM	1	1	16.65				
10	16QAM	1	1	16.65				
10	256QAM	1	1	16.61			18.5	0.0
Channel				481500	460000	460200	Tune-up limit	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	16.64	16.61	16.63	18.5	0.0

n30_Ant 9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	20.39			21.5	0.0
10	PI2 BPSK	1	26	20.43				
10	PI2 BPSK	1	50	20.49				
10	PI2 BPSK	25	0	20.46			21.5	0.0
10	PI2 BPSK	25	14	20.41			21.5	0.0
10	PI2 BPSK	25	27	20.45				
10	PI2 BPSK	50	0	20.35				
10	QPSK	1	1	20.50			21.5	0.0
10	QPSK	1	26	20.48				
10	QPSK	1	50	20.40				
10	QPSK	25	0	20.35			21.5	0.0
10	QPSK	25	14	20.47			21.5	0.0
10	QPSK	25	27	20.38			21.5	0.0
10	QPSK	50	0	20.39				
10	16QAM	1	1	20.44				
10	16QAM	1	1	20.43			21.5	0.0
10	256QAM	1	1	20.25			21.0	0.5
Channel				481500	460000	460200	Tune-up limit	MPR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	20.46	20.38	20.45	21.5	0.0

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	P12 BPSK	1	1	16.96	16.91	16.92			
40	P12 BPSK	1	108	16.91	16.89	16.84	18.0	0.0	
40	P12 BPSK	1	214	16.96	16.88	16.71			
40	P12 BPSK	108	0	16.87	16.89	16.80	18.0	0.0	
40	P12 BPSK	108	54	16.91	16.89	16.82	18.0	0.0	
40	P12 BPSK	108	108	16.84	16.70	16.62			
40	P12 BPSK	216	0	16.91	16.97	16.84	18.0	0.0	
40	QPSK	1	1	17.01	17.02	16.95			
40	QPSK	1	108	16.92	16.95	16.85			
40	QPSK	1	214	16.93	16.90	16.78			
40	QPSK	108	0	16.88	16.90	16.89	18.0	0.0	
40	QPSK	108	54	16.97	16.99	16.95	18.0	0.0	
40	QPSK	108	108	16.92	16.80	16.68	18.0	0.0	
40	QPSK	216	0	16.97	16.98	16.86			
40	16QAM	1	1	17.01	16.97	16.89	18.0	0.0	
40	64QAM	1	1	16.94	16.93	16.87	18.0	0.0	
40	256QAM	1	1	16.93	16.94	16.92	18.0	0.0	
Channel				345500	349000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
35	QPSK	1	1	16.95	16.90	16.89	18.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722	1745	1765			
30	QPSK	1	1	16.89	16.84	16.77	18.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	16.94	16.89	16.85	18.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	16.87	16.85	16.72	18.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	16.97	16.90	16.89	18.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	16.86	16.86	16.73	18.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	16.92	16.84	16.70	18.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	P12 BPSK	1	1	15.28	15.27	15.25			
40	P12 BPSK	1	108	15.20	15.24	15.15	16.0	0.0	
40	P12 BPSK	1	214	15.32	15.28	15.19			
40	P12 BPSK	108	0	15.29	15.25	15.20	16.0	0.0	
40	P12 BPSK	108	54	15.28	15.25	15.25	16.0	0.0	
40	P12 BPSK	108	108	15.19	15.34	15.26			
40	P12 BPSK	216	0	15.16	15.21	15.17	16.0	0.0	
40	QPSK	1	1	15.33	15.35	15.30			
40	QPSK	1	108	15.24	15.22	15.27	16.0	0.0	
40	QPSK	1	214	15.29	15.21	15.17			
40	QPSK	108	0	15.22	15.23	15.18	16.0	0.0	
40	QPSK	108	54	15.25	15.30	15.24	16.0	0.0	
40	QPSK	108	108	15.25	15.23	15.20	16.0	0.0	
40	QPSK	216	0	15.27	15.28	15.27			
40	16QAM	1	1	15.26	15.23	15.19	16.0	0.0	
40	64QAM	1	1	15.23	15.27	15.26	16.0	0.0	
40	256QAM	1	1	15.18	15.24	15.19	16.0	0.0	
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
35	QPSK	1	1	15.30	15.21	15.20	16.0	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722	1745	1765			
30	QPSK	1	1	15.19	15.20	15.25	16.0	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	15.22	15.23	15.15	16.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.25	15.33	15.17	16.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.23	15.33	15.15	16.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.19	15.31	15.22	16.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.27	15.22	15.54	16.0	0.0	

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000					
Frequency (MHz)				1762.5					
15	P12 BPSK	1	1		18.26				
15	P12 BPSK	1	40		18.17		19.5	0.0	
15	P12 BPSK	1	77		18.02				
15	P12 BPSK	36	0		18.10		19.5	0.0	
15	P12 BPSK	36	22		18.24		19.5	0.0	
15	P12 BPSK	36	43		17.99		19.5	0.0	
15	P12 BPSK	75	0		18.13				
15	QPSK	1	1		18.32				
15	QPSK	1	40		18.21		19.5	0.0	
15	QPSK	1	77		18.09				
15	QPSK	36	0		18.17		19.5	0.0	
15	QPSK	36	22		18.31		19.5	0.0	
15	QPSK	36	43		18.08		19.5	0.0	
15	QPSK	75	0		18.22				
15	16QAM	1	1		18.25		19.5	0.0	
15	64QAM	1	1		18.25		19.5	0.0	
Channel				345000	349000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1760	1762.5	1765			
10	QPSK	1	1	18.23	18.31	18.28	19.5	0.0	
Channel				339900	340000	341900	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1869.5	1869.5	1869.5			
5	QPSK	1	1	18.22	18.24	18.27	19.5	0.0	



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1		15.23				
15	P12 BPSK	1	40		15.14		16.0	0.0	
15	P12 BPSK	1	77		15.22				
15	P12 BPSK	36	0		15.14		16.0	0.0	
15	P12 BPSK	36	22		15.15		16.0	0.0	
15	P12 BPSK	36	43		15.16		16.0	0.0	
15	P12 BPSK	75	0		15.20				
15	QPSK	1	1		15.32				
15	QPSK	1	40		15.29		16.0	0.0	
15	QPSK	1	77		15.26				
15	QPSK	36	0		15.23		16.0	0.0	
15	QPSK	36	22		15.26		16.0	0.0	
15	QPSK	36	43		15.25		16.0	0.0	
15	QPSK	75	0		15.18		16.0	0.0	
15	16QAM	1	1		15.15		16.0	0.0	
15	64QAM	1	1		15.25		16.0	0.0	
15	256QAM	1	1		15.25		16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.0000	15.0000	15.1100	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.009	15.009	15.102	16.0	0.0	
5	QPSK	1	1	15.009	15.108	15.008	16.0	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.08	23.09	23.03			
30	P12 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	P12 BPSK	1	158	23.00	23.08	23.01			
30	P12 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	P12 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	P12 BPSK	80	80	22.91	23.02	22.92			
30	P12 BPSK	160	0	22.95	22.99	22.98	24.0	0.0	
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.96	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.86			
30	16QAM	1	1	22.80	22.83	22.83	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.86	22.82	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.08	23.13	23.13			
30	P12 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	P12 BPSK	1	158	23.18	23.24	23.20			
30	P12 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	P12 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	P12 BPSK	80	80	23.08	23.10	23.17			
30	P12 BPSK	160	0	23.15	23.19	23.18	24.0	0.0	
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.15	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	17.70	17.84	17.80	19.5	0.0	
40	Pl2 BPSK	1	53	17.75	17.77	17.72			
40	Pl2 BPSK	1	104	17.77	17.81	17.74			
40	Pl2 BPSK	50	0	17.75	17.85	17.81			
40	Pl2 BPSK	50	26	17.76	17.87	17.81	19.5	0.0	
40	Pl2 BPSK	50	56	17.74	17.83	17.85	19.5	0.0	
40	Pl2 BPSK	100	0	17.82	17.86	17.80			
40	QPSK	1	1	17.53	17.92	17.86			
40	QPSK	1	53	17.75	17.84	17.83			
40	QPSK	1	104	17.71	17.84	17.80	19.5	0.0	
40	QPSK	50	0	17.74	17.77	17.82			
40	QPSK	50	26	17.82	17.86	17.83			
40	QPSK	50	56	17.79	17.82	17.75			
40	QPSK	100	0	17.74	17.86	17.85	19.5	0.0	
40	16QAM	1	1	17.78	17.86	17.72	19.5	0.0	
40	16QAM	1	1	17.86	17.83	17.79	19.5	0.0	
40	256QAM	1	1	17.80	17.87	17.82	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.81	17.89	17.74	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.80	17.80	17.78	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.78	17.78	17.81	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.81	17.80	17.77	19.5	0.0	

n38_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	18.85	18.91	18.89	20.0	0.0	
40	Pl2 BPSK	1	53	18.89	18.94	18.95			
40	Pl2 BPSK	1	104	18.95	18.99	18.91			
40	Pl2 BPSK	50	0	18.93	18.94	18.98			
40	Pl2 BPSK	50	26	18.97	18.94	18.98	20.0	0.0	
40	Pl2 BPSK	50	56	18.99	19.00	19.01	20.0	0.0	
40	Pl2 BPSK	100	0	18.94	18.99	18.97			
40	QPSK	1	1	18.90	18.95	18.92			
40	QPSK	1	53	18.96	18.99	18.91			
40	QPSK	1	104	18.96	18.98	18.98	20.0	0.0	
40	QPSK	50	0	18.85	18.94	18.94			
40	QPSK	50	26	18.94	18.98	18.94			
40	QPSK	50	56	18.88	18.95	18.89			
40	QPSK	100	0	18.90	18.95	18.93	20.0	0.0	
40	16QAM	1	1	18.93	18.93	18.96	20.0	0.0	
40	16QAM	1	1	18.97	18.94	18.97	20.0	0.0	
40	256QAM	1	1	18.44	18.55	18.43	19.5	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.89	19.04	18.88	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.95	18.98	18.96	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.97	19.00	18.93	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.93	18.96	18.91	20.0	0.0	

n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	17.79	17.92	17.89	19.5	0.0	
100	Pl2 BPSK	1	137	17.81	17.83	17.75			
100	Pl2 BPSK	1	271	17.79	17.85	17.78			
100	Pl2 BPSK	135	0	17.73	17.80	17.86			
100	Pl2 BPSK	135	66	17.83	17.85	17.81	19.5	0.0	
100	Pl2 BPSK	135	136	17.85	17.81	17.81	19.5	0.0	
100	Pl2 BPSK	270	0	17.77	17.83	17.81			
100	QPSK	1	1	17.68	17.95	17.90			
100	QPSK	1	137	17.81	17.84	17.87			
100	QPSK	1	271	17.78	17.81	17.77	19.5	0.0	
100	QPSK	135	0	17.81	17.90	17.78			
100	QPSK	135	66	17.86	17.83	17.86			
100	QPSK	135	136	17.84	17.80	17.78			
100	QPSK	270	0	17.74	17.90	17.76	19.5	0.0	
100	16QAM	1	1	17.85	17.82	17.88	19.5	0.0	
100	16QAM	1	1	17.79	17.86	17.83	19.5	0.0	
100	256QAM	1	1	17.73	17.85	17.84	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.74	17.83	17.75	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.83	17.91	17.82	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.78	17.81	17.86	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.82	17.91	17.83	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.83	17.94	17.81	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.87	17.89	17.87	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.73	17.87	17.86	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.84	17.89	17.82	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.78	17.86	17.85	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.75	17.91	17.79	19.5	0.0	

n41_Ant 1_HPUE									
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				506002	518098	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	17.79	17.82	17.89			
100	PQ2 BPSK	1	137	17.81	17.83	17.75	19.5	0.0	
100	PQ2 BPSK	1	271	17.79	17.85	17.78			
100	PQ2 BPSK	135	0	17.73	17.80	17.86	19.5	0.0	
100	PQ2 BPSK	135	69	17.83	17.85	17.81	19.5	0.0	
100	PQ2 BPSK	135	138	17.85	17.81	17.81	19.5	0.0	
100	PQ2 BPSK	270	0	17.77	17.83	17.81			
100	QPSK	1	1	17.85	17.85	17.85			
100	QPSK	1	137	17.81	17.84	17.87	19.5	0.0	
100	QPSK	1	271	17.78	17.81	17.77			
100	QPSK	135	0	17.81	17.80	17.78			
100	QPSK	135	69	17.85	17.85	17.85	19.5	0.0	
100	QPSK	135	138	17.84	17.80	17.78			
100	QPSK	270	0	17.74	17.80	17.76	19.5	0.0	
100	16QAM	1	1	17.85	17.82	17.88	19.5	0.0	
100	64QAM	1	1	17.79	17.86	17.83	19.5	0.0	
100	256QAM	1	1	17.73	17.89	17.84	19.5	0.0	
Channel				506000	518098	526006	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	17.74	17.83	17.75	19.5	0.0	
Channel				507204	518098	526008	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2540.98	(dBm)	(dB)	
80	QPSK	1	1	17.83	17.81	17.82	19.5	0.0	
Channel				505002	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2585	(dBm)	(dB)	
70	QPSK	1	1	17.78	17.81	17.86	19.5	0.0	
Channel				505000	518098	531006	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2584.98	(dBm)	(dB)	
60	QPSK	1	1	17.82	17.91	17.83	19.5	0.0	
Channel				504204	518098	532008	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2584.99	(dBm)	(dB)	
50	QPSK	1	1	17.83	17.94	17.81	19.5	0.0	
Channel				503002	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)	
40	QPSK	1	1	17.87	17.89	17.87	19.5	0.0	
Channel				502200	518098	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	17.73	17.87	17.86	19.5	0.0	
Channel				507004	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2592.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	17.84	17.89	17.82	19.5	0.0	
Channel				500700	518098	536498	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2584.48	(dBm)	(dB)	
15	QPSK	1	1	17.78	17.86	17.85	19.5	0.0	
Channel				500002	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2585	(dBm)	(dB)	
10	QPSK	1	1	17.75	17.81	17.79	19.5	0.0	



n41_Ant 2								
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				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2540		
100	PQ2 BPSK	1	1	16.30	16.40	16.34	18.0	0.0
100	PQ2 BPSK	1	137	16.30	16.47	16.41		
100	PQ2 BPSK	1	271	16.40	16.49	16.43		
100	PQ2 BPSK	135	0	16.34	16.44	16.35		
100	PQ2 BPSK	135	69	16.31	16.42	16.46	18.0	0.0
100	PQ2 BPSK	135	138	16.35	16.43	16.36		
100	PQ2 BPSK	270	0	16.44	16.52	16.40		
100	QPSK	1	1	16.40	16.53	16.46		
100	QPSK	1	137	16.36	16.43	16.39	18.0	0.0
100	QPSK	1	271	16.35	16.47	16.43		
100	QPSK	135	0	16.40	16.42	16.39		
100	QPSK	135	69	16.43	16.50	16.47		
100	QPSK	135	138	16.30	16.41	16.46	18.0	0.0
100	QPSK	270	0	16.36	16.52	16.46		
100	16QAM	1	1	16.37	16.38	16.46		
100	64QAM	1	1	16.39	16.48	16.41		
100	256QAM	1	1	16.38	16.48	16.39		
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	16.31	16.42	16.43	18.0	0.0
Channel				507204	518598	526008		
Frequency (MHz)				2636.02	2592.99	2648.99		
80	QPSK	1	1	16.41	16.42	16.35		
Channel				2555.02	518598	537003	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	16.30	16.44	16.42		
Channel				502000	518598	531996		
Frequency (MHz)				2526	2592.99	2608.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.33	16.38	16.46		
Channel				504204	518598	532098		
Frequency (MHz)				2521.02	2592.99	2604.99		
50	QPSK	1	1	16.33	16.36	16.44	18.0	0.0
Channel				503002	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.40	16.44	16.42		
Channel				502000	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.44	16.41	16.35		
Channel				507204	518598	532098		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.38	16.43	16.46		
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	16.44	16.42	16.40	18.0	0.0
Channel				502002	518598	537000		
Frequency (MHz)				2531.01	2592.99	2685		
10	QPSK	1	1	16.34	16.51	16.33		

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Mid Ch. / Freq. 518598	Power High Ch. / Freq. 526000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PQ2 BPSK	1	1	16.30	16.47	16.34	18.0	0.0
100	PQ2 BPSK	1	137	16.30	16.47	16.41		
100	PQ2 BPSK	1	271	16.40	16.49	16.43		
100	PQ2 BPSK	135	0	16.34	16.44	16.35		
100	PQ2 BPSK	135	69	16.31	16.42	16.46	18.0	0.0
100	PQ2 BPSK	135	138	16.35	16.43	16.36		
100	PQ2 BPSK	270	0	16.44	16.52	16.40		
100	QPSK	1	1	16.40	16.53	16.46		
100	QPSK	1	137	16.36	16.43	16.39	18.0	0.0
100	QPSK	1	271	16.35	16.47	16.43		
100	QPSK	135	0	16.40	16.42	16.39		
100	QPSK	135	69	16.43	16.50	16.47		
100	QPSK	135	138	16.30	16.41	16.46	18.0	0.0
100	QPSK	270	0	16.36	16.52	16.46		
100	16QAM	1	1	16.37	16.38	16.46		
100	64QAM	1	1	16.39	16.48	16.41		
100	256QAM	1	1	16.38	16.48	16.39		
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	16.31	16.42	16.43	18.0	0.0
Channel				507204	518598	526008		
Frequency (MHz)				2636.02	2592.99	2648.99		
80	QPSK	1	1	16.41	16.42	16.35		
Channel				505502	518598	537003	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	16.30	16.44	16.42		
Channel				502000	518598	531996		
Frequency (MHz)				2526	2592.99	2608.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.33	16.38	16.46		
Channel				504204	518598	532098		
Frequency (MHz)				2521.02	2592.99	2604.99		
50	QPSK	1	1	16.33	16.35	16.44	18.0	0.0
Channel				503002	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.40	16.44	16.42		
Channel				522205	533598	545096	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.44	16.41	16.35		
Channel				507204	518598	532098		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.38	16.43	16.46		
Channel				500700	518598	536496		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	16.44	16.42	16.40	18.0	0.0
Channel				506002	518598	537000		
Frequency (MHz)				2531.01	2592.99	2685		
10	QPSK	1	1	16.34	16.51	16.33		

n41_Ant 5											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				506000	518598	526000					
Frequency (MHz)				2561.01	2592.99	2540					
100	PQ2 BPSK	1	1	13.55	13.50	13.55	15.0	0.0			
100	PQ2 BPSK	1	137	13.44	13.57	13.52					
100	PQ2 BPSK	1	271	13.53	13.56	13.50					
100	PQ2 BPSK	135	0	13.48	13.53	13.59					
100	PQ2 BPSK	135	69	13.48	13.53	13.57					
100	PQ2 BPSK	135	138	13.48	13.51	13.51	15.0	0.0			
100	PQ2 BPSK	270	0	13.50	13.52	13.54					
100	QPSK	1	1	13.16	13.65	13.00					
100	QPSK	1	137	13.43	13.57	13.46					
100	QPSK	1	271	13.43	13.57	13.55					
100	QPSK	135	0	13.55	13.58	13.49					
100	QPSK	135	69	13.57	13.69	13.54	15.0	0.0			
100	QPSK	135	138	13.56	13.55	13.55					
100	QPSK	270	0	13.51	13.53	13.53					
100	16QAM	1	1	13.44	13.64	13.53					
100	64QAM	1	1	13.44	13.54	13.57					
100	256QAM	1	1	13.49	13.53	13.57					
Channel				506000	518598	526006	Tune-up limit	MPR			
Frequency (MHz)				2541	2592.99	2644.98					
90	QPSK	1	1	13.43	13.53	13.51	15.0	0.0			
Channel				507204	518598	526068		Tune-up limit	MPR		
Frequency (MHz)				2536.02	2592.99	2649.99					
80	QPSK	1	1	13.51	13.55	13.45		15.0	0.0		
Channel				505202	518598	531010			Tune-up limit	MPR	
Frequency (MHz)				2631.01	2592.99	2655					
70	QPSK	1	1	13.57	13.57	13.46	15.0		0.0		
Channel				505200	518598	531066			Tune-up limit	MPR	
Frequency (MHz)				2626	2592.99	2659.98					
60	QPSK	1	1	13.48	13.52	13.52		15.0	0.0		
Channel				504204	518598	532068			Tune-up limit	MPR	
Frequency (MHz)				2621.02	2592.99	2664.99					
50	QPSK	1	1	13.55	13.52	13.57	15.0		0.0		
Channel				503002	518598	534000			Tune-up limit	MPR	
Frequency (MHz)				2616.01	2592.99	2670					
40	QPSK	1	1	13.44	13.50	13.58		15.0	0.0		
Channel				502200	518598	535006			Tune-up limit	MPR	
Frequency (MHz)				2611	2592.99	2674.98					
30	QPSK	1	1	13.49	13.51	13.49	15.0		0.0		
Channel				501204	518598	536006			Tune-up limit	MPR	
Frequency (MHz)				2606.02	2592.99	2679.99					
20	QPSK	1	1	13.55	13.62	13.47		15.0	0.0		
Channel				500700	518598	536496			Tune-up limit	MPR	
Frequency (MHz)				2603.5	2592.99	2682.48					
15	QPSK	1	1	13.55	13.50	13.45	15.0		0.0		
Channel				500202	518598	537000			Tune-up limit	MPR	
Frequency (MHz)				2597.01	2592.99	2685					
10	QPSK	1	1	13.52	13.54	13.55					

n41_Ant 5_HPUE											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				506002	518598	526000					
Frequency (MHz)				2541.01	2592.99	2540					
100	PQ2 BPSK	1	1	13.55	13.50	13.55	15.0	0.0			
100	PQ2 BPSK	1	137	13.44	13.57	13.52					
100	PQ2 BPSK	1	271	13.53	13.56	13.50					
100	PQ2 BPSK	135	0	13.48	13.53	13.59					
100	PQ2 BPSK	135	69	13.48	13.53	13.57					
100	PQ2 BPSK	135	138	13.48	13.51	13.51	15.0	0.0			
100	PQ2 BPSK	270	0	13.50	13.52	13.54					
100	QPSK	1	1	13.35	13.65	13.50					
100	QPSK	1	137	13.43	13.57	13.46					
100	QPSK	1	271	13.43	13.57	13.55					
100	QPSK	135	0	13.55	13.58	13.49					
100	QPSK	135	69	13.57	13.69	13.54	15.0	0.0			
100	QPSK	135	138	13.56	13.55	13.55					
100	QPSK	270	0	13.51	13.53	13.53					
100	16QAM	1	1	13.44	13.64	13.53					
100	64QAM	1	1	13.44	13.54	13.57					
100	256QAM	1	1	13.49	13.53	13.57					
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2541	2592.99	2644.98					
90	QPSK	1	1	13.43	13.53	13.51	15.0	0.0			
Channel				507204	518598	526068		Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2592.99	2649.99					
80	QPSK	1	1	13.51	13.55	13.45		15.0	0.0		
Channel				505502	518598	531010			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655					
70	QPSK	1	1	13.57	13.57	13.46	15.0		0.0		
Channel				505200	518598	531066			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98					
60	QPSK	1	1	13.48	13.52	13.52		15.0	0.0		
Channel				504204	518598	532068			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99					
50	QPSK	1	1	13.55	13.52	13.57	15.0		0.0		
Channel				503002	518598	534000			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670					
40	QPSK	1	1	13.44	13.50	13.58		15.0	0.0		
Channel				502200	518598	535006			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98					
30	QPSK	1	1	13.49	13.51	13.49	15.0		0.0		
Channel				501204	518598	536006			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99					
20	QPSK	1	1	13.55	13.62	13.47		15.0	0.0		
Channel				500700	518598	536496			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48					
15	QPSK	1	1	13.55	13.50	13.45	15.0		0.0		
Channel				500202	518598	537000			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685					
10	QPSK	1	1	13.52	13.54	13.55		15.0	0.0		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MFR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532698	Tune-up limit	MFR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MFR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MFR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532698	Tune-up limit	MFR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MFR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.82	22.5	0.0
Channel				502200	518098	535000	Tune-up limit	MFR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532698	Tune-up limit	MFR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536496	Tune-up limit	MFR
Frequency (MHz)				2603.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				500202	518098	537000	Tune-up limit	MFR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.61	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	535996	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	



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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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PI2 BPSK	1	1	18.99	18.99	18.99	20.0	0.0	
100	PI2 BPSK	1	137	18.99	19.07	19.02			
100	PI2 BPSK	1	271	18.99	18.96	18.93			
100	PI2 BPSK	135	0	18.95	18.95	18.91			
100	PI2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0	
100	PI2 BPSK	135	138	18.99	18.98	18.97	20.0	0.0	
100	PI2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0	
100	QPSK	1	1	18.12	18.15	18.10			
100	QPSK	1	137	18.99	19.00	18.97			
100	QPSK	1	271	18.99	18.97	19.04			
100	QPSK	135	0	18.87	18.97	18.94	20.0	0.0	
100	QPSK	135	69	18.92	19.06	19.03			
100	QPSK	135	138	18.90	18.99	18.94			
100	QPSK	270	0	19.01	19.05	18.90			
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0	
100	64QAM	1	1	18.97	19.04	19.03	20.0	0.0	
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98			
90	QPSK	1	1	18.99	18.99	19.04	20.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0	
Channel				507502	518598	537013	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0	
Channel				507500	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2600	2592.99	2609.98			
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99			
50	QPSK	1	1	18.91	19.05	19.02	20.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0	
Channel				502205	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0	
Channel				507204	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2585			
10	QPSK	1	1	19.00	18.99	18.99	20.0	0.0	

n41_Ant 9_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2546.01	2592.99	2540			
100	PI2 BPSK	1	1	18.99	19.00	18.98	20.0	0.0	
100	PI2 BPSK	1	137	18.99	19.07	19.02			
100	PI2 BPSK	1	271	18.90	18.96	18.93			
100	PI2 BPSK	135	0	18.95	18.95	18.96			
100	PI2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0	
100	PI2 BPSK	135	138	18.99	18.98	18.97	20.0	0.0	
100	PI2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0	
100	QPSK	1	1	18.12	18.15	18.10			
100	QPSK	1	137	18.99	19.00	18.97			
100	QPSK	1	271	18.95	18.97	19.04			
100	QPSK	135	0	18.87	18.97	18.94	20.0	0.0	
100	QPSK	135	69	18.92	19.06	19.03			
100	QPSK	135	138	18.90	18.99	18.94			
100	QPSK	270	0	19.01	19.05	18.90			
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0	
100	64QAM	1	1	18.97	19.04	19.03	20.0	0.0	
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98	20.0	0.0	
90	QPSK	1	1	18.98	18.98	19.04	20.0	0.0	
Channel				507204	518598	526068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	20.0	0.0	
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0	
Channel				507502	518598	537013	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	20.0	1.0	
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0	
Channel				507500	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2626	2592.99	2659.98	20.0	0.0	
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0	
Channel				504204	518598	532068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99	20.0	0.0	
50	QPSK	1	1	18.91	19.05	19.02	20.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570	20.0	0.0	
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0	
Channel				502205	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	20.0	0.0	
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0	
Channel				507204	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	20.0	0.0	
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48	20.0	0.0	
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2585	20.0	0.0	
10	QPSK	1	1	19.00	18.99	18.99	20.0	0.0	



n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid-H Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641686	646332			
Frequency (MHz)				15.34	15.42	15.39			
40	PI2 BPSK	1	1	15.34	15.42	15.39			
40	PI2 BPSK	1	53	15.41	15.47	15.46	16.5	0.0	
40	PI2 BPSK	1	104	15.37	15.54	15.39			
40	PI2 BPSK	50	0	15.35	15.40	15.39	16.5	0.0	
40	PI2 BPSK	50	26	15.42	15.45	15.44	16.5	0.0	
40	PI2 BPSK	50	56	15.35	15.45	15.45			
40	PI2 BPSK	100	0	15.39	15.48	15.37	16.5	0.0	
40	QPSK	1	1	15.40	15.55	15.20			
40	QPSK	1	53	15.46	15.40	15.49	16.5	0.0	
40	QPSK	1	104	15.42	15.47	15.46			
40	QPSK	50	0	15.45	15.49	15.38			
40	QPSK	50	26	15.47	15.52	15.47	16.5	0.0	
40	QPSK	50	56	15.44	15.50	15.35			
40	QPSK	100	0	15.33	15.47	15.46	16.5	0.0	
40	16QAM	1	1	15.40	15.48	15.42	16.5	0.0	
40	64QAM	1	1	15.40	15.42	15.47	16.5	0.0	
40	256QAM	1	1	15.32	15.47	15.44	16.5	0.0	
Channel				637668	641686	646666	Tune-up limit	MPR	
Frequency (MHz)				3063.02	3024.99	3034.99	(dBm)	(dB)	
30	QPSK	1	1	15.45	15.40	15.39	16.5	0.0	
Channel				637234	641686	646000	Tune-up limit	MPR	
Frequency (MHz)				3060.01	3024.99	3060	(dBm)	(dB)	
20	QPSK	1	1	15.45	15.40	15.49	16.5	0.0	
Channel				637500	641686	646332	Tune-up limit	MPR	
Frequency (MHz)				3055	3024.99	3064.98	(dBm)	(dB)	
10	QPSK	1	1	15.37	15.51	15.40	16.5	0.0	

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid-H Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641686	646332			
Frequency (MHz)				14.13	14.10	14.02			
40	PI2 BPSK	1	1	14.13	14.10	14.02			
40	PI2 BPSK	1	53	14.05	14.16	14.04	15.5	0.0	
40	PI2 BPSK	1	104	14.16	14.08	14.06			
40	PI2 BPSK	50	0	14.13	14.06	14.10	15.5	0.0	
40	PI2 BPSK	50	26	14.03	14.14	14.06	15.5	0.0	
40	PI2 BPSK	50	56	14.05	14.17	14.14			
40	PI2 BPSK	100	0	14.16	14.06	14.04	15.5	0.0	
40	QPSK	1	1	14.16	14.20	14.15			
40	QPSK	1	53	14.10	14.09	14.08	15.5	0.0	
40	QPSK	1	104	14.10	14.12	14.08			
40	QPSK	50	0	14.12	14.14	14.02			
40	QPSK	50	26	14.16	14.17	14.07	15.5	0.0	
40	QPSK	50	56	14.05	14.09	14.05			
40	QPSK	100	0	14.07	14.11	14.05	15.5	0.0	
40	16QAM	1	1	14.12	14.07	14.05	15.5	0.0	
40	64QAM	1	1	14.06	14.09	14.12	15.5	0.0	
40	256QAM	1	1	14.09	14.09	14.11	15.5	0.0	
Channel				637668	641686	646666	Tune-up limit	MPR	
Frequency (MHz)				3063.02	3024.99	3034.99	(dBm)	(dB)	
30	QPSK	1	1	14.10	14.12	14.08	15.5	0.0	
Channel				637234	641686	646000	Tune-up limit	MPR	
Frequency (MHz)				3060.01	3024.99	3060	(dBm)	(dB)	
20	QPSK	1	1	14.14	14.06	14.00	15.5	0.0	
Channel				637500	641686	646332	Tune-up limit	MPR	
Frequency (MHz)				3055	3024.99	3064.98	(dBm)	(dB)	
10	QPSK	1	1	14.14	14.17	14.06	15.5	0.0	



n48_FCC_Part96_Ant 8								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	645332		
Frequency (MHz)				3609	3624.99	3679.98		
40	Pl2 BPSK	1	1	18.88	18.89	18.89	20.0	0.0
40	Pl2 BPSK	1	53	18.90	18.86	18.91		
40	Pl2 BPSK	1	104	18.83	18.91	18.83		
40	Pl2 BPSK	50	0	18.84	18.86	18.82	20.0	0.0
40	Pl2 BPSK	50	26	18.86	18.82	18.92	20.0	0.0
40	Pl2 BPSK	50	56	18.81	18.94	18.93	20.0	0.0
40	Pl2 BPSK	100	0	18.88	18.94	18.83		
40	QPSK	1	1	18.92	18.90	18.91		
40	QPSK	1	53	18.85	18.96	18.85	20.0	0.0
40	QPSK	1	104	18.91	18.91	18.82		
40	QPSK	50	0	18.82	18.95	18.90		
40	QPSK	50	26	18.84	18.86	18.84	20.0	0.0
40	QPSK	50	56	18.81	18.98	18.92		
40	QPSK	100	0	18.90	18.93	18.92		
40	16QAM	1	1	18.88	18.97	18.91	20.0	0.0
40	16QAM	1	1	18.29	18.37	18.27	20.0	0.0
40	256QAM	1	1	18.98	18.87	18.72	18.0	2.0
Channel				637668	641666	645668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3665.02	3624.99	3694.99	(dBm)	(dB)
30	QPSK	1	1	18.89	18.79	18.93	20.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	18.79	18.92	18.81	20.0	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3665	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	18.83	18.87	18.82	20.0	0.0

n48_FCC_Part96_Ant 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	645332		
Frequency (MHz)				3670	3624.99	3679.98		
40	Pl2 BPSK	1	1	12.88	12.99	12.89	14.0	0.0
40	Pl2 BPSK	1	53	12.95	12.96	12.96		
40	Pl2 BPSK	1	104	12.94	13.00	12.93		
40	Pl2 BPSK	50	0	12.83	12.99	12.99	14.0	0.0
40	Pl2 BPSK	50	26	12.90	12.91	12.86	14.0	0.0
40	Pl2 BPSK	50	56	12.90	12.99	12.95	14.0	0.0
40	Pl2 BPSK	100	0	12.88	12.91	12.93		
40	QPSK	1	1	12.96	13.00	13.00		
40	QPSK	1	53	12.86	13.01	12.96	14.0	0.0
40	QPSK	1	104	12.91	12.92	12.96		
40	QPSK	50	0	12.86	12.96	12.92		
40	QPSK	50	26	12.84	13.00	12.96	14.0	0.0
40	QPSK	50	56	12.93	12.96	12.87		
40	QPSK	100	0	12.82	13.04	12.94		
40	16QAM	1	1	12.91	12.90	12.96	14.0	0.0
40	16QAM	1	1	12.88	12.92	12.86	14.0	0.0
40	256QAM	1	1	12.92	12.98	12.91	14.0	0.0
Channel				637668	641666	645668	Tune-up limit (dBm)	MPR
Frequency (MHz)				3665.02	3624.99	3694.99	(dBm)	(dB)
30	QPSK	1	1	12.99	12.92	12.97	14.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	12.94	12.99	12.99	14.0	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3665	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	12.91	12.96	12.93	14.0	0.0

Par270 n77_Ant 4									
BW [MHz]	Modulation	RB 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	14.10	14.12	14.08	15.0	0.0	
100	Pi2 BPSK	1	137	14.04	14.19	14.07			
100	Pi2 BPSK	1	271	14.01	14.18	14.06			
100	Pi2 BPSK	136	0	14.03	14.07	14.15	15.0	0.0	
100	Pi2 BPSK	136	69	14.00	14.13	14.10	15.0	0.0	
100	Pi2 BPSK	136	138	14.00	14.13	14.09	15.0	0.0	
100	Pi2 BPSK	270	0	14.01	14.17	14.03	15.0	0.0	
100	QPSK	1	1	14.10	14.20	14.17	15.0	0.0	
100	QPSK	1	137	14.10	14.08	14.08			
100	QPSK	1	271	14.11	14.05	14.13			
100	QPSK	136	0	14.00	14.16	14.15	15.0	0.0	
100	QPSK	136	69	14.10	14.16	14.16			
100	QPSK	136	138	14.07	14.12	14.11			
100	QPSK	270	0	14.13	14.15	14.02	15.0	0.0	
100	16QAM	1	1	14.10	14.14	14.02	15.0	0.0	
100	64QAM	1	1	14.14	14.08	14.13	15.0	0.0	
100	256QAM	1	1	14.04	14.12	14.09	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.09	14.13	14.14	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.14	14.13	14.08	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.12	14.18	14.16	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.05	14.16	14.05	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.08	14.18	14.16	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.05	14.18	14.04	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.05	14.18	14.09	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.08	14.06	14.08	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.06	14.06	14.15	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.14	14.15	14.16	15.0	0.0	

Par270 n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB 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	14.10	14.12	14.08	15.0	0.0	
100	Pi2 BPSK	1	137	14.04	14.19	14.07			
100	Pi2 BPSK	1	271	14.01	14.18	14.06			
100	Pi2 BPSK	136	0	14.03	14.07	14.15	15.0	0.0	
100	Pi2 BPSK	136	69	14.00	14.13	14.10	15.0	0.0	
100	Pi2 BPSK	136	138	14.00	14.13	14.09	15.0	0.0	
100	Pi2 BPSK	270	0	14.01	14.17	14.03	15.0	0.0	
100	QPSK	1	1	14.10	14.20	14.17	15.0	0.0	
100	QPSK	1	137	14.10	14.08	14.08			
100	QPSK	1	271	14.11	14.05	14.13			
100	QPSK	136	0	14.00	14.16	14.15	15.0	0.0	
100	QPSK	136	69	14.10	14.16	14.16			
100	QPSK	136	138	14.07	14.12	14.11			
100	QPSK	270	0	14.13	14.15	14.02	15.0	0.0	
100	16QAM	1	1	14.10	14.14	14.02	15.0	0.0	
100	64QAM	1	1	14.14	14.08	14.13	15.0	0.0	
100	256QAM	1	1	14.04	14.12	14.09	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.09	14.13	14.14	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.14	14.13	14.08	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.12	14.18	14.16	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.05	14.16	14.05	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.08	14.18	14.16	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.05	14.18	14.04	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.06	14.18	14.09	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.08	14.06	14.08	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.06	14.06	14.15	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.14	14.15	14.16	15.0	0.0	

Par270 n77_Ant 4									
BW [MHz]	Modulation	RB 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		14.03	14.03	15.0	0.0	
100	Pi2 BPSK	1	137		14.04	14.04			
100	Pi2 BPSK	1	271		14.08	14.08			
100	Pi2 BPSK	136	0		14.06	14.06	15.0	0.0	
100	Pi2 BPSK	136	69		14.04	14.04	15.0	0.0	
100	Pi2 BPSK	136	138		14.13	14.13	15.0	0.0	
100	Pi2 BPSK	270	0		14.09	14.09	15.0	0.0	
100	QPSK	1	1		14.15	14.15	15.0	0.0	
100	QPSK	1	137		14.03	14.03			
100	QPSK	1	271		14.11	14.11			
100	QPSK	136	0		14.06	14.06	15.0	0.0	
100	QPSK	136	69		14.10	14.10			
100	QPSK	136	138		14.06	14.06			
100	QPSK	270	0		14.01	14.01	15.0	0.0	
100	16QAM	1	1		14.00	14.00	15.0	0.0	
100	64QAM	1	1		14.11	14.11	15.0	0.0	
100	256QAM	1	1		14.07	14.07	15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.09	14.04	14.04	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.05	14.03	14.00	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.01	14.00	14.10	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.12	14.03	14.05	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.07	14.14	14.03	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.03	14.02	14.12	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.00	14.03	14.14	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.14	14.06	14.11	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.00	14.10	14.02	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.10	14.13	14.07	15.0	0.0	



Par27Q n77_Ant 4_HPUE									
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	14.03	3499.98				
100	PQ2 BPSK	1	137	14.04			15.0	0.0	
100	PQ2 BPSK	1	271	14.08					
100	PQ2 BPSK	135	0	14.06			15.0	0.0	
100	PQ2 BPSK	135	69	14.04			15.0	0.0	
100	PQ2 BPSK	135	138	14.13					
100	PQ2 BPSK	270	0	14.09			15.0	0.0	
100	QPSK	1	1	14.15					
100	QPSK	1	137	14.03			15.0	0.0	
100	QPSK	1	271	14.11					
100	QPSK	135	0	14.06					
100	QPSK	135	69	14.10			15.0	0.0	
100	QPSK	135	138	14.06					
100	QPSK	270	0	14.01			15.0	0.0	
100	16QAM	1	1	14.00			15.0	0.0	
100	64QAM	1	1	14.11			15.0	0.0	
100	256QAM	1	1	14.07			15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.09	14.04	14.04	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.05	14.13	14.02	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.01	14.00	14.10	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.12	14.03	14.05	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.07	14.14	14.03	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.10	14.03	14.05	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.05	14.03	14.14	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.14	14.06	14.11	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.00	14.10	14.02	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.10	14.13	14.07	15.0	0.0	

Par270 n77_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	14.98	14.85	14.83			
100	PQ2 BPSK	1	137	15.02	14.84	14.90	16.5	0.0	
100	PQ2 BPSK	1	271	14.88	15.03	14.88			
100	PQ2 BPSK	135	0	14.92	14.88	14.95	16.5	0.0	
100	PQ2 BPSK	135	69	15.02	15.00	14.95	16.5	0.0	
100	PQ2 BPSK	135	138	14.99	15.03	14.91			
100	PQ2 BPSK	270	0	15.00	14.92	14.87	16.5	0.0	
100	QPSK	1	1	15.03	15.07	15.05			
100	QPSK	1	137	14.89	15.00	14.95	16.5	0.0	
100	QPSK	1	271	14.97	15.02	14.90			
100	QPSK	135	0	14.93	14.99	14.97			
100	QPSK	135	69	14.97	15.02	14.95	16.5	0.0	
100	QPSK	135	138	14.95	14.93	14.86			
100	QPSK	270	0	14.88	14.98	14.91	16.5	0.0	
100	16QAM	1	1	14.94	15.00	14.93	16.5	0.0	
100	64QAM	1	1	15.00	14.96	14.97	16.5	0.0	
100	256QAM	1	1	14.96	15.02	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.97	14.96	14.88	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.88	14.87	14.86	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.95	14.96	14.90	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.89	14.97	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.01	14.97	14.96	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.98	14.93	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.97	14.97	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.01	15.05	14.96	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.95	15.00	14.97	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.97	14.96	14.89	16.5	0.0	

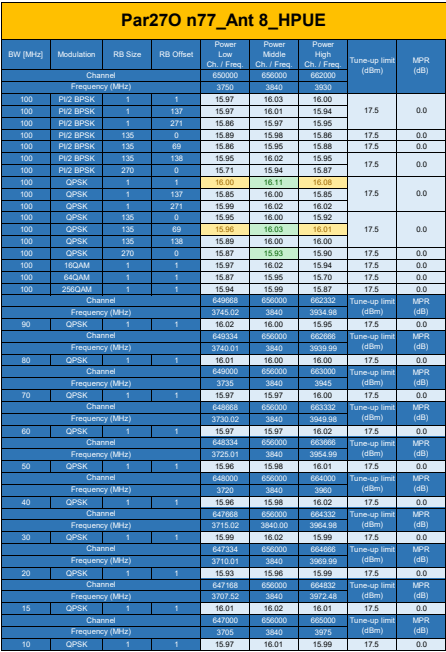
Par270 n77_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	14.88	14.93	14.83			
100	PQ2 BPSK	1	137	15.02	14.84	14.90	16.5	0.0	
100	PQ2 BPSK	1	271	14.88	15.05	14.88			
100	PQ2 BPSK	135	0	14.92	14.88	14.95	16.5	0.0	
100	PQ2 BPSK	135	69	15.02	15.00	14.95	16.5	0.0	
100	PQ2 BPSK	135	138	14.99	15.03	14.91			
100	PQ2 BPSK	270	0	15.00	14.92	14.87	16.5	0.0	
100	QPSK	1	1	15.03	15.07	15.05			
100	QPSK	1	137	14.89	15.00	14.95	16.5	0.0	
100	QPSK	1	271	14.97	15.02	14.90			
100	QPSK	135	0	14.93	14.99	14.97			
100	QPSK	135	69	14.97	15.02	14.95	16.5	0.0	
100	QPSK	135	138	14.95	14.93	14.86			
100	QPSK	270	0	14.88	14.98	14.91	16.5	0.0	
100	16QAM	1	1	14.94	15.00	14.93	16.5	0.0	
100	64QAM	1	1	15.00	14.96	14.97	16.5	0.0	
100	256QAM	1	1	14.96	15.02	14.87	16.5	0.0	
Channel				696866	656000	662352	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.02	3840	3824.08	(dBm)	(dB)	
90	QPSK	1	1	14.97	14.96	14.88	16.5	0.0	
Channel				625335	656000	662095	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.01	3840	3839.99	(dBm)	(dB)	
80	QPSK	1	1	14.88	14.97	14.86	16.5	0.0	
Channel				656000	656000	656000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3736	3840	3845	(dBm)	(dB)	
70	QPSK	1	1	14.95	14.96	14.90	16.5	0.0	
Channel				656000	656000	656000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3739.99	3840	3849.99	(dBm)	(dB)	
60	QPSK	1	1	14.89	14.97	14.87	16.5	0.0	
Channel				64334	656000	663096	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3724.91	3840	3845.99	(dBm)	(dB)	
50	QPSK	1	1	15.01	14.97	14.98	16.5	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3720	3840	3840	(dBm)	(dB)	
40	QPSK	1	1	14.98	14.93	14.87	16.5	0.0	
Channel				647698	656000	664342	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3715.02	3840.08	3844.98	(dBm)	(dB)	
30	QPSK	1	1	14.97	14.96	14.88	16.5	0.0	
Channel				627335	656000	665695	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3745.01	3840	3849.99	(dBm)	(dB)	
20	QPSK	1	1	15.01	15.05	14.96	16.5	0.0	
Channel				627335	656000	664342	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3747.50	3840	3847.48	(dBm)	(dB)	
15	QPSK	1	1	14.95	15.00	14.97	16.5	0.0	
Channel				647000	656000	662000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3735	3840	3837.5	(dBm)	(dB)	
10	QPSK	1	1	14.97	14.96	14.89	16.5	0.0	



Par27Q n77_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	14.93	14.93			
100	PQ2 BPSK	1	137	14.97			16.5	0.0
100	PQ2 BPSK	1	271	15.02				
100	PQ2 BPSK	135	0	14.95			16.5	0.0
100	PQ2 BPSK	135	69	15.04			16.5	0.0
100	PQ2 BPSK	135	138	15.00			16.5	0.0
100	PQ2 BPSK	270	0	14.93				
100	QPSK	1	1	15.05				
100	QPSK	1	137	14.95			16.5	0.0
100	QPSK	1	271	14.90				
100	QPSK	135	0	14.90				
100	QPSK	135	69	15.01			16.5	0.0
100	QPSK	135	138	14.95				
100	QPSK	270	0	14.95			16.5	0.0
100	16QAM	1	1	15.00			16.5	0.0
100	64QAM	1	1	15.01			16.5	0.0
100	256QAM	1	1	14.99			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.90	14.97	15.03	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.04	14.91	15.04	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.01	15.04	15.04	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.94	14.93	14.91	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.03	14.90	14.95	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.03	14.93	14.99	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.03	14.93	14.91	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.94	15.01	14.91	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.03	15.01	14.90	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.97	14.95	14.91	16.5	0.0

Par27Q n77_Ant 7_HPUE								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	14.93	14.93			
100	PQ2 BPSK	1	137	14.97			16.5	0.0
100	PQ2 BPSK	1	271	15.02				
100	PQ2 BPSK	135	0	14.95			16.5	0.0
100	PQ2 BPSK	135	69	15.04			16.5	0.0
100	PQ2 BPSK	135	138	15.00			16.5	0.0
100	PQ2 BPSK	270	0	14.93				
100	QPSK	1	1	15.05				
100	QPSK	1	137	14.95			16.5	0.0
100	QPSK	1	271	14.90				
100	QPSK	135	0	14.90				
100	QPSK	135	69	15.01			16.5	0.0
100	QPSK	135	138	14.95				
100	QPSK	270	0	14.95			16.5	0.0
100	16QAM	1	1	15.00			16.5	0.0
100	64QAM	1	1	15.01			16.5	0.0
100	256QAM	1	1	14.99			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.90	14.97	15.03	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.04	14.91	15.04	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.01	15.04	14.97	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.94	14.93	14.91	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.03	14.90	14.95	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.90	14.91	14.94	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.03	14.93	14.99	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.94	15.01	14.91	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.03	15.01	14.90	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.97	14.95	14.91	16.5	0.0

Par27O n77_Ant 8								
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	15.97	16.03	16.00		
100	PQ2 BPSK	1	137	15.97	16.01	15.94	17.5	0.0
100	PQ2 BPSK	1	271	15.96	15.97	15.95		
100	PQ2 BPSK	135	0	15.99	15.98	15.96	17.5	0.0
100	PQ2 BPSK	135	69	15.96	15.95	15.98	17.5	0.0
100	PQ2 BPSK	135	138	15.95	16.02	15.95		
100	PQ2 BPSK	270	0	15.71	15.94	15.87	17.5	0.0
100	QPSK	1	1	16.05	16.11	16.06		
100	QPSK	1	137	15.95	16.00	15.95	17.5	0.0
100	QPSK	1	271	15.99	16.02	16.02		
100	QPSK	135	0	15.95	16.00	15.92		
100	QPSK	135	69	15.96	16.03	16.01	17.5	0.0
100	QPSK	135	138	15.95	16.00	16.00		
100	QPSK	270	0	15.87	15.93	15.90	17.5	0.0
100	16QAM	1	1	15.97	16.02	15.94	17.5	0.0
100	64QAM	1	1	15.97	15.98	15.70	17.5	0.0
100	256QAM	1	1	15.94	15.99	15.87	17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.02	16.00	15.99	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.01	16.00	16.00	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.97	15.97	16.00	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.97	15.97	16.02	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.95	15.98	16.01	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.99	15.98	16.02	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.99	16.02	15.99	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.93	15.96	15.99	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.01	16.02	16.01	17.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.97	16.01	15.99	17.5	0.0



Par27Q n77_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3499.98			
100	PSS-SPSK	1	1	16.02	16.02			
100	PSS-SPSK	1	137	16.01	16.01	17.5	0.0	
100	PSS-SPSK	1	271	16.02	16.02			
100	PSS-SPSK	135	0	16.01	16.01	17.5	0.0	
100	PSS-SPSK	135	136	16.04	16.04	17.5	0.0	
100	PSS-SPSK	135	138	16.05	16.05	17.5	0.0	
100	PSS-SPSK	270	0	16.02	16.02			
100	QPSK	1	1	16.01	16.01			
100	QPSK	1	137	16.01	16.01	17.5	0.0	
100	QPSK	1	271	16.02	16.02			
100	QPSK	135	0	16.02	16.02			
100	QPSK	135	136	16.01	16.01	17.5	0.0	
100	QPSK	135	138	16.04	16.04	17.5	0.0	
100	QPSK	270	0	16.02	16.02	17.5	0.0	
100	16QAM	1	1	16.01	16.01	17.5	0.0	
100	16QAM	1	137	16.04	16.04	17.5	0.0	
100	256QAM	1	1	16.02	16.02	17.5	0.0	
Channel								
	Frequency (MHz)			633000	633332	633668	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	16.10	16.10	16.10	17.5	0.0
Channel								
	Frequency (MHz)			630668	633332	634000	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	16.05	16.02	16.05	17.5	0.0
Channel								
	Frequency (MHz)			63448.01	63499.98	63512.02	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	16.01	16.07	16.02	17.5	0.0
Channel								
	Frequency (MHz)			3440	3499.98	3519.99	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	16.04	16.09	16.04	17.5	0.0
Channel								
	Frequency (MHz)			631668	633332	635000	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	16.10	16.08	16.09	17.5	0.0
Channel								
	Frequency (MHz)			631334	633332	635332	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.02	16.06	16.04	17.5	0.0
Channel								
	Frequency (MHz)			631000	633332	635668	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	16.05	16.09	16.04	17.5	0.0
Channel								
	Frequency (MHz)			630668	633332	636000	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	16.02	16.02	16.06	17.5	0.0
Channel								
	Frequency (MHz)			630500	633332	636332	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	16.08	16.09	16.07	17.5	0.0
Channel								
	Frequency (MHz)			34511	3499.98	3504.98	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	16.01	16.02	16.07	17.5	0.0

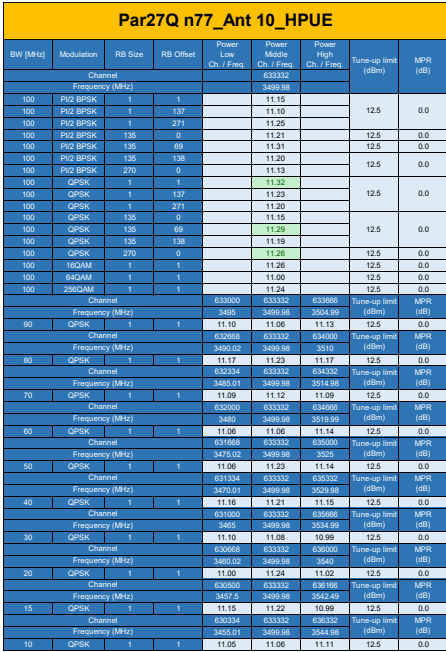
Par27Q n77 Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch.2 Freq.	Power High Ch. 3 Freq.		
Channel				633333	633333			
Frequency (MHz)				3499.98	3499.98			
100	P2-PSK	1	1	16.00	16.00			
100	P2-PSK	1	137	16.00	16.00	17.5	0.0	
100	P2-PSK	135	0	16.01	16.01	17.5	0.0	
100	P2-PSK	135	69	16.04	16.04	17.5	0.0	
100	P2-PSK	135	136	16.05	16.05	17.5	0.0	
100	P2-PSK	270	0	16.05	16.05	17.5	0.0	
100	QPSK	1	1	16.16	16.16			
100	QPSK	1	137	16.09	16.09	17.5	0.0	
100	QPSK	1	271	16.09	16.09			
100	QPSK	135	0	16.09	16.09	17.5	0.0	
100	QPSK	135	69	16.09	16.09	17.5	0.0	
100	QPSK	135	136	16.09	16.09	17.5	0.0	
100	QPSK	270	0	16.09	16.09	17.5	0.0	
100	16QAM	1	1	16.00	16.00			
100	16QAM	1	137	16.04	16.04	17.5	0.0	
100	256QAM	1	1	16.00	16.00	17.5	0.0	
100	256QAM	1	137	16.00	16.00	17.5	0.0	
Channel				633000	633332	633668		
Frequency (MHz)				3499.98	3499.98	3499.98	MPR	
90	QPSK	1	1	16.10	16.10	16.09	17.5	0.0
Channel				633668	633332	633000		
Frequency (MHz)				3499.92	3499.98	3500.00	MPR	
80	QPSK	1	1	16.05	16.05	16.10	17.5	0.0
Channel				633332	633332	633332		
Frequency (MHz)				3498.01	3499.98	3501.08	MPR	
70	QPSK	1	1	16.01	16.07	16.02	17.5	0.0
Channel				3490	3499.98	3509.98		
Frequency (MHz)				3490	3499.98	3509.98	MPR	
60	QPSK	1	1	16.04	16.09	16.04	17.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3495.08	3499.98	3504.92	MPR	
50	QPSK	1	1	16.10	16.08	16.09	17.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3491.61	3499.98	3508.39	MPR	
40	QPSK	1	1	16.02	16.08	16.04	17.5	0.0
Channel				631000	633332	636668		
Frequency (MHz)				3485	3499.98	3504.98	MPR	
30	QPSK	1	1	16.09	16.10	16.09	17.5	0.0
Channel				633668	633332	633000		
Frequency (MHz)				3499.92	3499.98	3500.00	MPR	
20	QPSK	1	1	16.02	16.01	16.06	17.5	0.0
Channel				633000	633332	633668		
Frequency (MHz)				3497.93	3499.98	3501.99	MPR	
15	QPSK	1	1	16.08	16.09	16.07	17.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3495.02	3499.98	3504.98	MPR	
10	QPSK	1	1	16.01	16.02	16.07	17.5	0.0



Par270 n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	11.20	11.11	11.24			
100	PQ2 BPSK	1	137	11.22	11.16	11.26	12.5	0.0	
100	PQ2 BPSK	1	271	11.11	11.19	11.15			
100	PQ2 BPSK	135	0	11.17	11.27	11.21	12.5	0.0	
100	PQ2 BPSK	135	69	11.21	11.21	11.15	12.5	0.0	
100	PQ2 BPSK	135	138	11.14	11.19	11.25			
100	PQ2 BPSK	270	0	11.17	11.19	11.09	12.5	0.0	
100	QPSK	1	1	11.24	11.29	11.25			
100	QPSK	1	137	11.19	11.22	11.18	12.5	0.0	
100	QPSK	1	271	11.20	11.12	11.17			
100	QPSK	135	0	11.19	11.21	11.20			
100	QPSK	135	69	11.21	11.26	11.21	12.5	0.0	
100	QPSK	135	138	11.18	11.16	11.11			
100	QPSK	270	0	11.14	11.25	11.09	12.5	0.0	
100	16QAM	1	1	10.97	11.27	11.24	12.5	0.0	
100	64QAM	1	1	11.14	11.08	11.08	12.5	0.0	
100	256QAM	1	1	11.10	11.28	11.14	12.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.01	11.24	10.99	12.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.01	11.22	11.14	12.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.06	11.17	11.07	12.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.05	11.06	11.11	12.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.10	11.15	10.97	12.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.02	11.24	11.09	12.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.09	11.18	11.13	12.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.09	11.13	11.02	12.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.10	11.11	11.04	12.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.09	11.06	11.01	12.5	0.0	

Par270 n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	11.20	11.11	11.24			
100	PQ2 BPSK	1	137	11.22	11.16	11.26	12.5	0.0	
100	PQ2 BPSK	1	271	11.11	11.19	11.15			
100	PQ2 BPSK	135	0	11.17	11.27	11.21	12.5	0.0	
100	PQ2 BPSK	135	69	11.21	11.21	11.15	12.5	0.0	
100	PQ2 BPSK	135	138	11.14	11.19	11.25			
100	PQ2 BPSK	270	0	11.17	11.19	11.09	12.5	0.0	
100	QPSK	1	1	11.24	11.29	11.25			
100	QPSK	1	137	11.17	11.22	11.18	12.5	0.0	
100	QPSK	1	271	11.20	11.12	11.17			
100	QPSK	135	0	11.19	11.21	11.20			
100	QPSK	135	69	11.19	11.26	11.21	12.5	0.0	
100	QPSK	135	138	11.18	11.16	11.11			
100	QPSK	270	0	11.14	11.25	11.09	12.5	0.0	
100	16QAM	1	1	10.97	11.27	11.24	12.5	0.0	
100	64QAM	1	1	11.14	11.08	11.08	12.5	0.0	
100	256QAM	1	1	11.10	11.28	11.14	12.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.01	11.24	10.99	12.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.10	11.22	11.14	12.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.06	11.17	11.07	12.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.05	11.08	11.11	12.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.10	11.15	10.97	12.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.02	11.24	11.09	12.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.09	11.18	11.13	12.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.09	11.13	11.02	12.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.10	11.11	11.04	12.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.09	11.06	11.01	12.5	0.0	

Par27Q n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1		11.15				
100	PQ2 BPSK	1	137		11.10		12.5	0.0	
100	PQ2 BPSK	1	271		11.25				
100	PQ2 BPSK	135	0		11.21		12.5	0.0	
100	PQ2 BPSK	135	69		11.31		12.5	0.0	
100	PQ2 BPSK	135	138		11.20		12.5	0.0	
100	PQ2 BPSK	270	0		11.13				
100	QPSK	1	1		11.32				
100	QPSK	1	137		11.23		12.5	0.0	
100	QPSK	1	271		11.20				
100	QPSK	135	0		11.15				
100	QPSK	135	69		11.28		12.5	0.0	
100	QPSK	135	138		11.19				
100	QPSK	270	0		11.26		12.5	0.0	
100	16QAM	1	1		11.26		12.5	0.0	
100	64QAM	1	1		11.00		12.5	0.0	
100	256QAM	1	1		11.24		12.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.06	11.08	11.13	12.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.07	11.23	11.17	12.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.09	11.12	11.09	12.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.08	11.08	11.14	12.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.09	11.23	11.14	12.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.10	11.21	11.15	12.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.10	11.08	10.99	12.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.00	11.24	11.02	12.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.15	11.22	10.99	12.5	0.0	
Channel									
Frequency (MHz)									
0	QPSK	1	1	11.03	11.24	11.02	12.5	0.0	
Channel									
Frequency (MHz)									
-10	QPSK	1	1	11.15	11.08	11.11	12.5	0.0	



Par270 n78_Ant 4								
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 / freq.	Power Middle Ch. 2 / freq.	Power High Ch. 3 / freq.	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PSSB	1	1	14.07	14.07			
100	P2B PSSB	1	137	13.94			15.0	0.0
100	P2B PSSB	1	271	13.96				
100	P2B PSSB	135	0	14.02			15.0	0.0
100	P2B PSSB	135	69	14.03			15.0	0.0
100	P2B PSSB	135	138	14.00			15.0	0.0
100	P2B PSSB	270	0	14.02			15.0	0.0
100	QPSK	1	1	14.00				
100	QPSK	1	137	13.96				
100	QPSK	1	271	14.01				
100	QPSK	135	0	13.98				
100	QPSK	135	69	14.00			15.0	0.0
100	QPSK	135	138	13.94			15.0	0.0
100	QPSK	270	0	14.00			15.0	0.0
100	16QAM	1	1	14.00			15.0	0.0
100	16QAM	1	1	14.01			15.0	0.0
100	256QAM	1	1	14.00			15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.02	14.08	14.00	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.95	13.90	14.00	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.04	14.00	13.96	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.02	14.01	14.00	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.94	14.00	14.07	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.05	14.05	14.03	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.08	14.03	14.00	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.03	14.02	14.02	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.06	13.99	13.99	Time-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.96	13.95	14.00	Time-up limit (dBm)	MPR (dB)

Par270 n78_Ant 4_HPUE									
RW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750				
100	QPSK	1	1	14.01	14.01				
100	BP2K	1	137	13.94	13.94		15.0	0.0	
100	BP2K	1	271	13.96	13.96				
100	BP2K	135	0	14.02	14.02		15.0	0.0	
100	BP2K	138	68	14.01	14.01		15.0	0.0	
100	BP2K	135	138	14.02	14.02				
100	BP2K	270	0	14.02	14.02				
100	QPSK	1	1	14.03	14.03				
100	QPSK	1	137	13.97	13.97		15.0	0.0	
100	QPSK	1	271	14.08	14.08				
100	QPSK	135	0	13.96	13.96				
100	QPSK	138	68	14.01	14.01		15.0	0.0	
100	QPSK	135	138	14.02	14.02				
100	QPSK	270	0	14.04	14.04				
100	16QAM	1	1	14.00	14.00		15.0	0.0	
100	16QAM	1	137	14.01	14.01		15.0	0.0	
100	256QAM	1	1	14.00	14.00		15.0	0.0	
Channel									
Frequency (MHz)				646668	650000	650332	Time-up limit	MPR	
				3750	3750	3754.58	(dBm)	(dB)	
50	QPSK	1	1	14.02	14.00	14.03	15.0	0.0	
Channel									
Frequency (MHz)				633430	650000	650606	Time-up limit	MPR	
				3750	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	13.95	14.01	14.05	15.0	0.0	
Channel									
Frequency (MHz)				645000	650000	651000	Time-up limit	MPR	
				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	14.04	14.00	13.96	15.0	0.0	
Channel									
Frequency (MHz)				637030	650000	651768	Time-up limit	MPR	
				3750	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	14.02	14.01	14.06	15.0	0.0	
Channel									
Frequency (MHz)				645134	650000	651986	Time-up limit	MPR	
				3750	3750	3774.88	(dBm)	(dB)	
50	QPSK	1	1	13.94	14.06	14.07	15.0	0.0	
Channel									
Frequency (MHz)				646800	650000	650500	Time-up limit	MPR	
				3750	3750	3764	(dBm)	(dB)	
40	QPSK	1	1	14.05	14.05	14.03	15.0	0.0	
Channel									
Frequency (MHz)				647668	650000	650332	Time-up limit	MPR	
				3751.52	3750.00	3754.58	(dBm)	(dB)	
30	QPSK	1	1	14.01	14.01	14.00	15.0	0.0	
Channel									
Frequency (MHz)				645234	650000	650606	Time-up limit	MPR	
				3750	3750	3769.99	(dBm)	(dB)	
20	QPSK	1	1	14.03	14.02	14.02	15.0	0.0	
Channel									
Frequency (MHz)				647100	650000	650332	Time-up limit	MPR	
				3750	3750	3769.24	(dBm)	(dB)	
15	QPSK	1	1	14.06	13.99	13.99	15.0	0.0	
Channel									
Frequency (MHz)				647000	650000	650300	Time-up limit	MPR	
				3750	3750	3765	(dBm)	(dB)	
10	QPSK	1	1	13.96	13.95	14.00	15.0	0.0	



Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	13.99			15.0	0.0	
100	PI2 BPSK	1	137	14.02					
100	PI2 BPSK	1	271	13.98					
100	PI2 BPSK	135	0	13.99			15.0	0.0	
100	PI2 BPSK	135	69	13.93			15.0	0.0	
100	PI2 BPSK	135	138	14.02			15.0	0.0	
100	PI2 BPSK	270	0	14.01					
100	QPSK	1	1	14.07					
100	QPSK	1	137	13.98			15.0	0.0	
100	QPSK	1	271	13.94					
100	QPSK	135	0	14.00					
100	QPSK	135	69	14.06			15.0	0.0	
100	QPSK	135	138	14.02					
100	QPSK	270	0	14.05					
100	16QAM	1	1	13.92			15.0	0.0	
100	64QAM	1	1	14.06			15.0	0.0	
100	256QAM	1	1	14.02			15.0	0.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	13.95	14.02	13.93	15.0	0.0	
Channel									
Frequency (MHz)				630668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.05	14.02	14.00	15.0	0.0	
Channel									
Frequency (MHz)				63468.01	633332	63414.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.00	13.98	14.01	15.0	0.0	
Channel									
Frequency (MHz)				63440	633332	63391.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	13.99	14.03	14.04	15.0	0.0	
Channel									
Frequency (MHz)				631668	633332	630000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	13.97	14.00	14.02	15.0	0.0	
Channel									
Frequency (MHz)				631334	633332	630332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	13.98	14.05	14.06	15.0	0.0	
Channel									
Frequency (MHz)				14.03	13.97	14.03	15.0	0.0	
Channel									
Frequency (MHz)				631000	633332	630666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	13.95	14.04	14.06	15.0	0.0	
Channel									
Frequency (MHz)				630668	633332	630000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	13.95	14.03	13.93	15.0	0.0	
Channel									
Frequency (MHz)				630000	633332	630666	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.00	14.01	13.98	15.0	0.0	
Channel									
Frequency (MHz)				630332	633332	630666	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.01	13.95	14.00	15.0	0.0	

Part27Q n78_Ant 4_HPUE											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	PI2 BPSK	1	1	13.99	13.99		15.0	0.0			
100	PI2 BPSK	1	137	14.02							
100	PI2 BPSK	1	271	13.98							
100	PI2 BPSK	135	0	13.99			15.0	0.0			
100	PI2 BPSK	135	69	13.93			15.0	0.0			
100	PI2 BPSK	135	138	14.02			15.0	0.0			
100	PI2 BPSK	270	0	14.01							
100	QPSK	1	1	14.07							
100	QPSK	1	137	13.98			15.0	0.0			
100	QPSK	1	271	13.94							
100	QPSK	135	0	14.00							
100	QPSK	135	69	14.06			15.0	0.0			
100	QPSK	135	138	14.02							
100	QPSK	270	0	14.05							
100	16QAM	1	1	13.92			15.0	0.0			
100	64QAM	1	1	14.06			15.0	0.0			
100	256QAM	1	1	14.02			15.0	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	13.95	14.02	13.93	15.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	14.06	13.98	14.05	15.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	14.00	13.98	14.01	15.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	13.99	14.03	14.04	15.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	13.93	14.04	13.98	15.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	13.94	13.98	14.06	15.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	13.94	13.98	14.06	15.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	13.95	14.03	13.93	15.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	14.00	14.01	13.98	15.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	14.01	13.95	14.00	15.0	0.0			



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modula Ch. / Freq. (600000)	Power High Ch. / Freq. (600000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.97			
100	PI2 BPSK	1	137	15.01		16.5	0.0
100	PI2 BPSK	1	271	14.99			
100	PI2 BPSK	135	0	14.97		16.5	0.0
100	PI2 BPSK	135	69	14.97		16.5	0.0
100	PI2 BPSK	135	138	15.02		16.5	0.0
100	PI2 BPSK	270	0	14.99			
100	QPSK	1	1	15.05			
100	QPSK	1	137	14.99		16.5	0.0
100	QPSK	1	271	14.97			
100	QPSK	135	0	14.98			
100	QPSK	135	69	15.00		16.5	0.0
100	QPSK	135	138	14.94			
100	QPSK	270	0	14.95		16.5	0.0
100	16QAM	1	1	14.91		16.5	0.0
100	64QAM	1	1	14.95		16.5	0.0
100	256QAM	1	1	15.02		16.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.95	14.95	14.97	16.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.97	15.00	15.02	16.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.99	14.91	14.92	16.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.02	14.94	14.99	16.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.99	14.95	14.95	16.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.99	14.93	14.97	16.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.95	15.00	14.95	16.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.90	15.01	14.93	16.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.92	14.97	15.02	16.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.93	14.96	15.03	16.5 0.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modula Ch. / Freq. (600000)	Power High Ch. / Freq. (600000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.97			
100	PI2 BPSK	1	137	15.01		16.5	0.0
100	PI2 BPSK	1	271	14.99			
100	PI2 BPSK	135	0	14.97		16.5	0.0
100	PI2 BPSK	135	69	14.97		16.5	0.0
100	PI2 BPSK	135	138	15.02		16.5	0.0
100	PI2 BPSK	270	0	14.99			
100	QPSK	1	1	15.05			
100	QPSK	1	137	14.99		16.5	0.0
100	QPSK	1	271	14.97			
100	QPSK	135	0	14.98			
100	QPSK	135	69	15.00		16.5	0.0
100	QPSK	135	138	14.94			
100	QPSK	270	0	14.95		16.5	0.0
100	16QAM	1	1	14.91		16.5	0.0
100	64QAM	1	1	14.95		16.5	0.0
100	256QAM	1	1	15.02		16.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.95	14.95	14.97	16.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.97	15.00	15.02	16.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.99	14.91	14.92	16.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.02	14.94	14.99	16.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.99	14.95	14.95	16.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.99	14.93	14.97	16.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.95	15.00	14.95	16.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.90	15.01	14.93	16.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.92	14.97	15.02	16.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.93	14.96	15.03	16.5 0.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332		
Frequency (MHz)				3493.98			
100	PI2 BPSK	1	1	14.93			
100	PI2 BPSK	1	137	14.97		16.5	0.0
100	PI2 BPSK	1	271	14.90			
100	PI2 BPSK	135	0	14.88		16.5	0.0
100	PI2 BPSK	135	69	14.95		16.5	0.0
100	PI2 BPSK	135	138	15.00		16.5	0.0
100	PI2 BPSK	270	0	15.00			
100	QPSK	1	1	15.03			
100	QPSK	1	137	15.01		16.5	0.0
100	QPSK	1	271	14.94			
100	QPSK	135	0	14.93			
100	QPSK	135	69	15.02		16.5	0.0
100	QPSK	135	138	15.01			
100	QPSK	270	0	14.95		16.5	0.0
100	16QAM	1	1	14.99		16.5	0.0
100	64QAM	1	1	15.00		16.5	0.0
100	256QAM	1	1	14.98		16.5	0.0
Channel				633000	633332	633666	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm) (dB)
90	QPSK	1	1	14.96	14.83	14.85	16.5 0.0
Channel				632668	633332	634000	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm) (dB)
80	QPSK	1	1	14.98	14.89	14.91	16.5 0.0
Channel				633334	633332	633332	MPR
Frequency (MHz)				3495.01	3499.98	3514.98	(dBm) (dB)
70	QPSK	1	1	14.97	14.89	14.93	16.5 0.0
Channel				632000	633332	634666	MPR
Frequency (MHz)				3496	3499.98	3518.99	(dBm) (dB)
60	QPSK	1	1	15.00	14.98	14.92	16.5 0.0
Channel				631668	633332	635000	MPR
Frequency (MHz)				3492.02	3499.98	3508	(dBm) (dB)
50	QPSK	1	1	15.02	14.93	14.97	16.5 0.0
Channel				631334	633332	635332	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm) (dB)
40	QPSK	1	1	14.94	14.83	14.80	16.5 0.0
Channel				631000	633332	635666	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm) (dB)
30	QPSK	1	1	14.97	14.98	14.94	16.5 0.0
Channel				630668	633332	636000	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm) (dB)
20	QPSK	1	1	14.95	14.89	14.91	16.5 0.0
Channel				630000	633332	636366	MPR
Frequency (MHz)				3452.5	3499.98	3542.69	(dBm) (dB)
15	QPSK	1	1	14.98	14.98	15.00	16.5 0.0
Channel				630334	633332	636332	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm) (dB)
10	QPSK	1	1	14.90	15.01	14.99	16.5 0.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332		
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	14.93			
100	PI2 BPSK	1	137	14.97		16.5	0.0
100	PI2 BPSK	1	271	14.90			
100	PI2 BPSK	135	0	14.88		16.5	0.0
100	PI2 BPSK	135	69	14.95		16.5	0.0
100	PI2 BPSK	135	138	15.00		16.5	0.0
100	PI2 BPSK	270	0	15.00			
100	QPSK	1	1	15.03			
100	QPSK	1	137	15.01		16.5	0.0
100	QPSK	1	271	14.94			
100	QPSK	135	0	14.93			
100	QPSK	135	69	15.02		16.5	0.0
100	QPSK	135	138	15.01			
100	QPSK	270	0	14.95		16.5	0.0
100	16QAM	1	1	14.99		16.5	0.0
100	64QAM	1	1	15.00		16.5	0.0
100	256QAM	1	1	14.98		16.5	0.0
Channel				633000	633332	633666	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm) (dB)
90	QPSK	1	1	14.96	14.83	14.85	16.5 0.0
Channel				632668	633332	634000	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm) (dB)
80	QPSK	1	1	14.98	14.89	14.91	16.5 0.0
Channel				633334	633332	633332	MPR
Frequency (MHz)				3495.01	3499.98	3514.98	(dBm) (dB)
70	QPSK	1	1	14.97	14.89	14.93	16.5 0.0
Channel				632000	633332	634666	MPR
Frequency (MHz)				3496	3499.98	3518.99	(dBm) (dB)
60	QPSK	1	1	15.00	14.98	14.92	16.5 0.0
Channel				631668	633332	635000	MPR
Frequency (MHz)				3492.02	3499.98	3508	(dBm) (dB)
50	QPSK	1	1	15.02	14.93	14.97	16.5 0.0
Channel				631334	633332	635332	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm) (dB)
40	QPSK	1	1	14.94	14.83	14.80	16.5 0.0
Channel				631000	633332	635666	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm) (dB)
30	QPSK	1	1	14.97	14.98	14.94	16.5 0.0
Channel				630668	633332	636000	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm) (dB)
20	QPSK	1	1	14.95	14.89	14.91	16.5 0.0
Channel				630000	633332	636366	MPR
Frequency (MHz)				3452.5	3499.98	3542.69	(dBm) (dB)
15	QPSK	1	1	14.98	14.98	15.00	16.5 0.0
Channel				630334	633332	636332	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm) (dB)
10	QPSK	1	1	14.90	15.01	14.99	16.5 0.0



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modem Ch. / Freq. (600000)	Power High Ch. / Freq. (600000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	15.89			
100	PQ2 BPSK	1	137	16.02		17.5	0.0
100	PQ2 BPSK	1	271	15.97			
100	PQ2 BPSK	135	0	16.01		17.5	0.0
100	PQ2 BPSK	135	69	15.85		17.5	0.0
100	PQ2 BPSK	135	138	15.95		17.5	0.0
100	PQ2 BPSK	270	0	15.92			
100	QPSK	1	1	16.06			
100	QPSK	1	137	15.88		17.5	0.0
100	QPSK	1	271	15.91			
100	QPSK	135	0	15.83			
100	QPSK	135	69	16.03		17.5	0.0
100	QPSK	135	138	15.75			
100	QPSK	270	0	15.89		17.5	0.0
100	16QAM	1	1			17.5	0.0
100	64QAM	1	1			17.5	0.0
100	256QAM	1	1			17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.85	15.90	15.83	17.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.81	15.88	15.93	17.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.83	15.87	15.83	17.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.85	15.92	15.86	17.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.79	15.98	15.92	17.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.78	15.95	15.79	17.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.87	15.91	15.92	17.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.95	16.05	15.87	17.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.78	16.01	15.86	17.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.94	16.05	15.79	17.5 0.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modem Ch. / Freq. (600000)	Power High Ch. / Freq. (600000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	15.89			
100	PQ2 BPSK	1	137	16.02		17.5	0.0
100	PQ2 BPSK	1	271	15.97			
100	PQ2 BPSK	135	0	16.01		17.5	0.0
100	PQ2 BPSK	135	69	15.85		17.5	0.0
100	PQ2 BPSK	135	138	15.95		17.5	0.0
100	PQ2 BPSK	270	0	15.92			
100	QPSK	1	1	16.06			
100	QPSK	1	137	15.88		17.5	0.0
100	QPSK	1	271	15.91			
100	QPSK	135	0	15.83			
100	QPSK	135	69	16.03		17.5	0.0
100	QPSK	135	138	15.75			
100	QPSK	270	0	15.89		17.5	0.0
100	16QAM	1	1			17.5	0.0
100	64QAM	1	1			17.5	0.0
100	256QAM	1	1			17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.85	15.90	15.83	17.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.81	15.88	15.93	17.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.83	15.87	15.83	17.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.85	15.92	15.86	17.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.79	15.98	15.92	17.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.78	15.95	15.79	17.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.87	15.91	15.92	17.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.95	16.05	15.87	17.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.78	16.01	15.86	17.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.94	16.05	15.79	17.5 0.0



Part27Q n78_Ant 8									
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				633332		3499.98			
Frequency (MHz)				16.11					
100	PQ2 BPSK	1	1		16.09		17.5	0.0	
100	PQ2 BPSK	1	137		16.08				
100	PQ2 BPSK	1	271		16.17		17.5	0.0	
100	PQ2 BPSK	135	0		16.19		17.5	0.0	
100	PQ2 BPSK	135	138		15.80		17.5	0.0	
100	PQ2 BPSK	270	0		15.99				
100	QPSK	1	1		16.28		17.5	0.0	
100	QPSK	1	137		16.22				
100	QPSK	1	271		15.90				
100	QPSK	135	0		16.22		17.5	0.0	
100	QPSK	135	69		16.25				
100	QPSK	135	138		16.03				
100	QPSK	270	0		16.11		17.5	0.0	
100	16QAM	1	1		16.14		17.5	0.0	
100	64QAM	1	1		16.28		17.5	0.0	
100	256QAM	1	1		16.26		17.5	0.0	
Channel				633000		633666	Tune-up limit		MPR
Frequency (MHz)				3495		3499.98	3504.98		(dB)
90	QPSK	1	1		16.10	16.18	16.09	17.5	0.0
Channel				632668		633332	634000		MPR
Frequency (MHz)				3490.02		3499.98	3510		(dB)
80	QPSK	1	1		16.02	16.11	16.15	17.5	0.0
Channel				632334		633000	633666		MPR
Frequency (MHz)				3485.01		3499.98	3514.98		(dB)
70	QPSK	1	1		16.16	16.17	16.04	17.5	0.0
Channel				632000		633332	634666		MPR
Frequency (MHz)				3480		3499.98	3518.99		(dB)
60	QPSK	1	1		16.09	16.24	16.18	17.5	0.0
Channel				631668		633332	635000		MPR
Frequency (MHz)				3475.02		3499.98	3529		(dB)
50	QPSK	1	1		16.17	16.09	16.19	17.5	0.0
Channel				631334		633332	636332		MPR
Frequency (MHz)				3470.01		3499.98	3529.98		(dB)
40	QPSK	1	1		16.07	16.10	16.08	17.5	0.0
Channel				631000		633332	636666		MPR
Frequency (MHz)				3465		3499.98	3534.99		(dB)
30	QPSK	1	1		16.09	16.15	16.02	17.5	0.0
Channel				630668		633332	638000		MPR
Frequency (MHz)				3460.02		3499.98	3540		(dB)
20	QPSK	1	1		16.17	16.21	16.09	17.5	0.0
Channel				630300		633332	639166		MPR
Frequency (MHz)				3457.5		3499.98	3542.69		(dB)
15	QPSK	1	1		16.19	16.11	16.16	17.5	0.0
Channel				630004		633332	639332		MPR
Frequency (MHz)				3452.01		3499.98	3544.98		(dB)
10	QPSK	1	1		16.20	16.20	16.09	17.5	0.0

Part27Q n78_Ant 8_HPUE									
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				633332		3499.98			
Frequency (MHz)				16.11					
100	PQ2 BPSK	1	1		16.09		17.5	0.0	
100	PQ2 BPSK	1	137		16.08				
100	PQ2 BPSK	1	271		16.17		17.5	0.0	
100	PQ2 BPSK	135	0		16.19		17.5	0.0	
100	PQ2 BPSK	135	138		15.80		17.5	0.0	
100	PQ2 BPSK	270	0		15.99				
100	QPSK	1	1		16.28		17.5	0.0	
100	QPSK	1	137		16.22				
100	QPSK	1	271		15.90				
100	QPSK	135	0		16.22		17.5	0.0	
100	QPSK	135	69		16.25				
100	QPSK	135	138		16.03				
100	QPSK	270	0		16.11		17.5	0.0	
100	16QAM	1	1		16.14		17.5	0.0	
100	64QAM	1	1		16.28		17.5	0.0	
100	256QAM	1	1		16.26		17.5	0.0	
Channel				633000		633666	Tune-up limit		MPR
Frequency (MHz)				3495		3499.98	3504.98		(dB)
90	QPSK	1	1		16.10	16.18	16.09	17.5	0.0
Channel				632668		633332	634000		MPR
Frequency (MHz)				3490.02		3499.98	3510		(dB)
80	QPSK	1	1		16.02	16.11	16.15	17.5	0.0
Channel				632334		633000	633666		MPR
Frequency (MHz)				3485.01		3499.98	3514.98		(dB)
70	QPSK	1	1		16.16	16.17	16.04	17.5	0.0
Channel				632000		633332	634666		MPR
Frequency (MHz)				3480		3499.98	3518.99		(dB)
60	QPSK	1	1		16.09	16.24	16.18	17.5	0.0
Channel				631668		633332	635000		MPR
Frequency (MHz)				3475.02		3499.98	3529		(dB)
50	QPSK	1	1		16.17	16.09	16.19	17.5	0.0
Channel				631334		633332	636332		MPR
Frequency (MHz)				3470.01		3499.98	3529.98		(dB)
40	QPSK	1	1		16.07	16.10	16.08	17.5	0.0
Channel				631000		633332	636666		MPR
Frequency (MHz)				3465		3499.98	3534.99		(dB)
30	QPSK	1	1		16.09	16.15	16.02	17.5	0.0
Channel				630668		633332	638000		MPR
Frequency (MHz)				3460.02		3499.98	3540		(dB)
20	QPSK	1	1		16.17	16.21	16.09	17.5	0.0
Channel				630300		633332	639166		MPR
Frequency (MHz)				3457.5		3499.98	3542.69		(dB)
15	QPSK	1	1		16.19	16.11	16.16	17.5	0.0
Channel				630004		633332	639332		MPR
Frequency (MHz)				3452.01		3499.98	3544.98		(dB)
10	QPSK	1	1		16.20	16.20	16.09	17.5	0.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq. (650000)	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	11.10			
100	PQ2 BPSK	1	137	11.17		12.5	0.0
100	PQ2 BPSK	1	271	11.03			
100	PQ2 BPSK	135	0	11.01		12.5	0.0
100	PQ2 BPSK	135	69	11.13		12.5	0.0
100	PQ2 BPSK	135	138	11.14		12.5	0.0
100	PQ2 BPSK	270	0	11.00			
100	QPSK	1	1	11.18			
100	QPSK	1	137	11.04		12.5	0.0
100	QPSK	1	271	11.00			
100	QPSK	135	0	11.06			
100	QPSK	135	69	11.16		12.5	0.0
100	QPSK	135	138	11.10		12.5	0.0
100	QPSK	270	0	11.13		12.5	0.0
100	16QAM	1	1	11.06		12.5	0.0
100	64QAM	1	1	11.16		12.5	0.0
100	256QAM	1	1	11.10		12.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.03	11.00	11.00	12.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	10.99	11.13	11.12	12.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	10.99	11.12	11.09	12.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	10.98	11.06	11.07	12.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.02	11.15	10.99	12.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.00	11.00	10.99	12.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	10.93	10.99	11.11	12.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	10.95	11.17	10.98	12.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.03	11.16	11.06	12.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.10	11.15	11.02	12.5 0.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq. (650000)	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	11.10			
100	PQ2 BPSK	1	137	11.17		12.5	0.0
100	PQ2 BPSK	1	271	11.03			
100	PQ2 BPSK	135	0	11.01		12.5	0.0
100	PQ2 BPSK	135	69	11.13		12.5	0.0
100	PQ2 BPSK	135	138	11.14		12.5	0.0
100	PQ2 BPSK	270	0	11.00			
100	QPSK	1	1	11.18			
100	QPSK	1	137	11.04		12.5	0.0
100	QPSK	1	271	11.00			
100	QPSK	135	0	11.06			
100	QPSK	135	69	11.16		12.5	0.0
100	QPSK	135	138	11.10		12.5	0.0
100	QPSK	270	0	11.13		12.5	0.0
100	16QAM	1	1	11.06		12.5	0.0
100	64QAM	1	1	11.16		12.5	0.0
100	256QAM	1	1	11.10		12.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.03	11.00	11.00	12.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	10.99	11.13	11.12	12.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	10.99	11.12	11.09	12.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	10.98	11.06	11.07	12.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.02	11.15	10.99	12.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.00	11.00	10.99	12.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	10.93	10.99	11.11	12.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	10.95	11.17	10.98	12.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.03	11.16	11.06	12.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.10	11.15	11.02	12.5 0.0

Part27Q n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	12.00	3493.98		
100	PI2 BPSK	1	137	12.13		12.5	0.0
100	PI2 BPSK	1	271	12.01			
100	PI2 BPSK	135	0	12.15		12.5	0.0
100	PI2 BPSK	135	69	12.08		12.5	0.0
100	PI2 BPSK	135	138	11.88		12.5	0.0
100	PI2 BPSK	270	0	11.93			
100	QPSK	1	1	12.21			
100	QPSK	1	137	12.15		12.5	0.0
100	QPSK	1	271	12.02			
100	QPSK	135	0	12.08			
100	QPSK	135	69	12.16		12.5	0.0
100	QPSK	135	138	12.10			
100	QPSK	270	0	12.12		12.5	0.0
100	16QAM	1	1	12.03		12.5	0.0
100	64QAM	1	1	11.93		12.5	0.0
100	256QAM	1	1	11.92		12.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.07	11.10	11.05	12.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	11.00	11.00	11.01	12.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	11.00	11.00	11.13	12.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	11.09	11.17	11.08	12.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.07	11.02	11.12	12.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	10.95	11.11	10.99	12.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	10.99	11.04	11.05	12.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	11.11	11.06	10.97	12.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.05	10.99	11.09	12.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.03	11.04	10.99	12.5 0.0

Part27Q n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	12.00	3493.98		
100	PI2 BPSK	1	137	12.13		12.5	0.0
100	PI2 BPSK	1	271	12.01			
100	PI2 BPSK	135	0	12.15		12.5	0.0
100	PI2 BPSK	135	69	12.08		12.5	0.0
100	PI2 BPSK	135	138	11.88		12.5	0.0
100	PI2 BPSK	270	0	11.93			
100	QPSK	1	1	12.21			
100	QPSK	1	137	12.15		12.5	0.0
100	QPSK	1	271	12.02			
100	QPSK	135	0	12.08			
100	QPSK	135	69	12.16		12.5	0.0
100	QPSK	135	138	12.10			
100	QPSK	270	0	12.12		12.5	0.0
100	16QAM	1	1	12.03		12.5	0.0
100	64QAM	1	1	11.93		12.5	0.0
100	256QAM	1	1	11.92		12.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.07	11.10	11.05	12.5 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	11.00	11.00	11.01	12.5 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	11.00	11.00	11.13	12.5 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	11.09	11.17	11.08	12.5 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.07	11.02	11.12	12.5 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	10.95	11.11	10.99	12.5 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	10.99	11.04	11.05	12.5 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	11.11	11.06	10.97	12.5 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.05	10.99	11.09	12.5 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.03	11.04	10.99	12.5 0.0



Reduced Power Mode for DSI4

n2_Ant 0									
BW [MHz]	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	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.76	22.80	22.74	24.0	0.0	
20	PI2 BPSK	1	53	22.74	22.75	22.74			
20	PI2 BPSK	1	104	22.74	22.76	22.72			
20	PI2 BPSK	50	5	22.76	22.81	22.74	24.0	0.0	
20	PI2 BPSK	50	28	22.88	22.76	22.64	24.0	0.0	
20	PI2 BPSK	50	56	22.75	22.81	22.71	24.0	0.0	
20	PI2 BPSK	100	0	22.74	22.80	22.71	24.0	0.0	
20	QPSK	1	1	22.82	22.88	22.86			
20	QPSK	1	53	22.79	22.87	22.81			
20	QPSK	1	104	22.78	22.84	22.83	24.0	0.0	
20	QPSK	50	0	22.75	22.83	22.86			
20	QPSK	50	28	22.75	22.88	22.75			
20	QPSK	50	56	22.76	22.84	22.69	24.0	0.0	
20	QPSK	100	0	22.89	22.75	22.68	24.0	0.0	
20	8QAM	1	1	22.77	22.85	22.75			
20	8QAM	1	1	21.77	22.08	22.02	23.0	1.0	
20	256QAM	1	1	19.85	20.00	19.92	21.0	3.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.72	22.80	22.74	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895			
10	QPSK	1	1	22.78	22.79	22.72	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	22.76	22.81	22.71	24.0	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.95	22.96	22.92	24.0	0.0	
20	PI2 BPSK	1	53	22.84	22.88	22.74			
20	PI2 BPSK	1	104	22.83	22.85	22.81			
20	PI2 BPSK	50	5	22.32	22.33	22.27	23.5	0.5	
20	PI2 BPSK	50	28	22.76	22.80	22.79	24.0	0.0	
20	PI2 BPSK	50	56	22.19	22.28	22.15	23.5	0.5	
20	PI2 BPSK	100	0	22.25	22.30	22.18	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.90			
20	QPSK	1	53	22.84	22.90	22.85			
20	QPSK	1	104	22.71	22.83	22.72	23.0	1.0	
20	QPSK	50	0	21.83	21.85	21.81			
20	QPSK	50	28	22.70	22.78	22.72			
20	QPSK	50	56	21.83	21.88	21.84	23.0	1.0	
20	QPSK	100	0	21.82	21.87	21.86	23.0	1.0	
20	16QAM	1	1	21.90	22.02	21.85			
20	16QAM	1	1	20.44	20.59	20.51	21.5	2.5	
20	256QAM	1	1	18.40	18.50	18.38	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.78	22.86	22.85	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895			
10	QPSK	1	1	22.80	22.84	22.80	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	22.90	22.92	22.77	24.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167200	167900	24.0	0.0	
Frequency (MHz)				834	846.5	859			
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.84	22.79			
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.93	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.78	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.90			
20	QPSK	1	53	22.81	22.78	22.73			
20	QPSK	1	104	22.83	22.79	22.72	24.0	0.0	
20	QPSK	50	0	22.76	22.77	22.75			
20	QPSK	50	28	22.75	22.81	22.70			
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	16QAM	1	1	22.77	22.81	22.75			
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166200	167200	167900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	846.5	861.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	846.5	864			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	846.5	866.5			
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0	



n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	838			
20	P12 BPSK	1	1	22.70	22.72	22.63	24.0	0.0	
20	P12 BPSK	1	53	22.67	22.75	22.68			
20	P12 BPSK	1	104	22.70	22.73	22.63	24.0	0.0	
20	P12 BPSK	50	0	22.60	22.71	22.52			
20	P12 BPSK	50	26	22.67	22.75	22.60	24.0	0.0	
20	P12 BPSK	50	56	22.58	22.71	22.58			
20	P12 BPSK	100	0	22.58	22.64	22.55	24.0	0.0	
20	QPSK	1	1	22.73	22.76	22.65			
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0	
20	QPSK	1	104	22.57	22.68	22.50			
20	QPSK	50	0	22.61	22.66	22.52	24.0	0.0	
20	QPSK	50	26	22.62	22.72	22.57			
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0	
20	QPSK	100	0	22.60	22.64	22.49			
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0	
20	64QAM	1	1	21.34	21.45	21.37		22.5	
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5	Tune-up time (dBm)	MPR (dB)	
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0	
Channel				166000	167300	168600			
Frequency (MHz)				829	836.5	844	Tune-up time (dBm)	MPR (dB)	
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				836.5	836.5	846.5	Tune-up time (dBm)	MPR (dB)	
5	QPSK	1	1	22.63	22.72	22.49	24.0	0.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				504000	507000	510000	24.0	0.0	
Frequency (MHz)				2350	2355	2350			
40	P12 BPSK	1	1	22.86	23.03	22.97	24.0	0.0	
40	P12 BPSK	1	108	22.80	23.02	22.89			
40	P12 BPSK	1	214	22.73	22.97	22.91	23.5	0.5	
40	P12 BPSK	108	0	22.32	22.55	22.54			
40	P12 BPSK	108	54	22.61	22.84	22.71	24.0	0.0	
40	P12 BPSK	108	108	22.14	22.45	22.42			
40	P12 BPSK	216	0	22.31	22.52	22.46	23.5	0.5	
40	QPSK	1	1	22.93	23.05	22.95			
40	QPSK	1	108	22.74	23.00	22.97	24.0	0.0	
40	QPSK	1	214	22.74	22.99	22.95			
40	QPSK	108	0	21.81	22.05	22.03	23.0	1.0	
40	QPSK	108	54	22.50	22.83	22.51			
40	QPSK	108	108	21.72	21.96	21.88	23.0	1.0	
40	QPSK	216	0	21.83	22.08	22.01			
40	16QAM	1	1	21.87	22.10	21.95	23.0	1.0	
40	64QAM	1	1	20.52	20.77	20.68		21.5	
40	256QAM	1	1	18.62	18.85	18.76	19.5	4.5	
Channel				503000	507000	511000			
Frequency (MHz)				2315	2335	2355	Tune-up time (dBm)	MPR (dB)	
30	QPSK	1	1	22.71	22.99	22.90	24.0	0.0	
Channel				502000	507000	511000			
Frequency (MHz)				2322.5	2334	2347.5	Tune-up time (dBm)	MPR (dB)	
25	QPSK	1	1	22.75	23.02	23.04	24.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2310	2335	2360	Tune-up time (dBm)	MPR (dB)	
20	QPSK	1	1	22.67	22.99	23.01	24.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2307.5	2335	2362.5	Tune-up time (dBm)	MPR (dB)	
15	QPSK	1	1	22.65	23.09	23.02	24.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2305	2335	2365	Tune-up time (dBm)	MPR (dB)	
10	QPSK	1	1	22.71	23.03	22.93	24.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2302.5	2335	2367.5	Tune-up time (dBm)	MPR (dB)	
5	QPSK	1	1	22.67	23.00	23.04	24.0	0.0	

n7_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				504000	507000	510000	24.0	0.0	
Frequency (MHz)				2350	2355	2350			
40	P12 BPSK	1	1	23.03	23.05	23.01	24.0	0.0	
40	P12 BPSK	1	108	23.00	23.02	22.98			
40	P12 BPSK	1	214	23.02	23.04	22.92	24.0	0.0	
40	P12 BPSK	108	0	22.89	22.98	22.98			
40	P12 BPSK	108	54	22.98	23.02	22.99	24.0	0.0	
40	P12 BPSK	108	108	22.92	22.92	22.92			
40	P12 BPSK	216	0	22.90	23.01	22.88	24.0	0.0	
40	QPSK	1	1	23.01	23.07	23.02			
40	QPSK	1	108	22.95	22.97	22.89	24.0	0.0	
40	QPSK	1	214	22.93	22.93	22.96			
40	QPSK	108	0	22.87	22.94	22.93	24.0	0.0	
40	QPSK	108	54	22.91	22.98	22.95			
40	QPSK	108	108	22.87	22.93	22.94	24.0	0.0	
40	QPSK	216	0	22.86	22.93	22.86			
40	16QAM	1	1	22.92	22.98	22.98	24.0	0.0	
40	64QAM	1	1	21.79	21.89	21.78		23.0	
40	256QAM	1	1	20.38	20.46	20.43	21.0	3.0	
Channel				503000	507000	511000			
Frequency (MHz)				2315	2335	2355	Tune-up time (dBm)	MPR (dB)	
30	QPSK	1	1	22.92	22.96	22.94	24.0	0.0	
Channel				502000	507000	511000			
Frequency (MHz)				2322.5	2334	2347.5	Tune-up time (dBm)	MPR (dB)	
25	QPSK	1	1	22.99	22.95	22.96	24.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2310	2335	2360	Tune-up time (dBm)	MPR (dB)	
20	QPSK	1	1	22.89	22.94	22.99	24.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2307.5	2335	2362.5	Tune-up time (dBm)	MPR (dB)	
15	QPSK	1	1	22.91	22.94	22.96	24.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2305	2335	2365	Tune-up time (dBm)	MPR (dB)	
10	QPSK	1	1	22.94	22.96	22.93	24.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2302.5	2335	2367.5	Tune-up time (dBm)	MPR (dB)	
5	QPSK	1	1	22.92	22.99	22.97	24.0	0.0	

n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77			
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71			
15	QPSK	1	1	22.85	22.92	22.82			
15	QPSK	1	40	22.74	22.75	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70	24.0	0.0	
15	QPSK	36	0	22.71	22.82	22.71			
15	QPSK	36	22	22.71	22.83	22.73			
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.76	22.83	22.76			
15	16QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
15	P12 BPSK	1	1	23.31	23.36	23.34	24.0	0.0			
15	P12 BPSK	1	40	23.23	23.31	23.23					
15	P12 BPSK	1	77	23.26	23.33	23.31					
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0	0.0			
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0	0.0			
15	P12 BPSK	36	43	23.11	23.24	23.17	24.0	0.0			
15	P12 BPSK	75	0	23.21	23.30	23.17					
15	P12 BPSK	75	0	23.27	23.37	23.30					
15	QPSK	1	1	23.15	23.22	23.19	24.0	0.0			
15	QPSK	1	40	23.11	23.27	23.18					
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0			
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0			
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0			
15	QPSK	75	0	23.12	23.29	23.23	24.0	0.0			
15	16QAM	1	1	23.19	23.32	23.15					
15	16QAM	1	1	22.13	22.19	22.17	22.5	1.5			
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5			
Channel											
Frequency (MHz)											
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0			

n14_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
10	P12 BPSK	1	1		22.93		24.0	0.0			
10	P12 BPSK	1	26		22.91						
10	P12 BPSK	1	55		22.89						
10	P12 BPSK	25	0		22.92		24.0	0.0			
10	P12 BPSK	25	14		22.91		24.0	0.0			
10	P12 BPSK	25	27		22.82		24.0	0.0			
10	P12 BPSK	50	0		22.84						
10	QPSK	1	1		22.93						
10	QPSK	1	26		22.89		24.0	0.0			
10	QPSK	1	50		22.83						
10	QPSK	25	0		22.93						
10	QPSK	25	14		22.95		24.0	0.0			
10	QPSK	25	27		22.90		24.0	0.0			
10	QPSK	50	0		22.84		24.0	0.0			
10	16QAM	1	1		22.89						
10	16QAM	1	1		22.92		23.0	1.0			
10	256QAM	1	1		20.05		21.0	3.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0			

n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				793			24.0	0.0	
Frequency (MHz)				198690					
10	PI2 BPSK	1	1	22.60					
10	PI2 BPSK	1	26	22.54				24.0 0.0	
10	PI2 BPSK	1	50	22.54					
10	PI2 BPSK	25	0	22.51					
10	PI2 BPSK	25	14	22.53			24.0	0.0	
10	PI2 BPSK	25	27	22.49					
10	PI2 BPSK	50	0	22.51			24.0		
10	QPSK	1	1	22.62			24.0	0.0	
10	QPSK	1	26	22.50					
10	QPSK	1	50	22.55					
10	QPSK	25	0	22.49			24.0	0.0	
10	QPSK	25	14	22.57					
10	QPSK	25	27	22.50			24.0		
10	QPSK	50	0	22.54			24.0	0.0	
10	64QAM	1	1	22.49					
10	64QAM	1	1	19.89			23.0	1.0	
10	256QAM	1	1	19.89			21.0		
Channel				194180	198690	199100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.52	22.51	22.58	24.0	0.0	

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374000	376000	378000	24.0	0.0	
Frequency (MHz)				1870	1862.5	1865			
40	PI2 BPSK	1	1	22.87	22.90	22.87			
40	PI2 BPSK	1	108	22.82	22.80	22.83		24.0 0.0	
40	PI2 BPSK	1	214	22.86	22.82	22.83			
40	PI2 BPSK	108	0	22.74	22.88	22.68	24.0		
40	PI2 BPSK	108	54	22.76	22.89	22.77	24.0	0.0	
40	PI2 BPSK	108	108	22.75	22.83	22.87			
40	PI2 BPSK	216	0	22.65	22.79	22.74	24.0		
40	QPSK	1	1	22.92	22.92	22.78	24.0	0.0	
40	QPSK	1	108	22.76	22.84	22.69			
40	QPSK	1	214	22.71	22.78	22.72			
40	QPSK	108	0	22.69	22.82	22.67	24.0	0.0	
40	QPSK	108	54	22.72	22.83	22.73	24.0		
40	QPSK	108	108	22.70	22.78	22.72	24.0		
40	QPSK	216	0	22.73	22.80	22.73	24.0	0.0	
40	16QAM	1	1	22.72	22.82	22.66	24.0		
40	64QAM	1	1	21.58	21.65	21.59	22.5	1.5	
40	256QAM	1	1	19.67	19.68	19.63	20.5		
Channel				373990	376990	376990	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1862.5	1867.5			
35	QPSK	1	1	22.69	22.80	22.69	24.0	0.0	
Channel				373090	376990	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1864	1862.5	1860			
30	QPSK	1	1	22.70	22.79	22.69	24.0	0.0	
Channel				372990	376990	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1862.5	1862.5	1862.5			
25	QPSK	1	1	22.69	22.85	22.73	24.0	0.0	
Channel				372090	376990	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1860	1862.5	1865			
20	QPSK	1	1	22.73	22.84	22.72	24.0	0.0	
Channel				371990	376990	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1867.5	1862.5	1867.5			
15	QPSK	1	1	22.73	22.82	22.76	24.0	0.0	
Channel				371090	376990	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1865	1862.5	1865			
10	QPSK	1	1	22.69	22.88	22.73	24.0	0.0	
Channel				370990	376990	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1862.5	1862.5	1862.5			
5	QPSK	1	1	22.75	22.85	22.71	24.0	0.0	

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374290			24.0	0.0	
Frequency (MHz)				1870					
40	PI2 BPSK	1	1	22.15	22.19	22.12			
40	PI2 BPSK	1	108	22.05	22.10	22.05		24.0 0.0	
40	PI2 BPSK	1	214	22.12	22.18	22.06			
40	PI2 BPSK	108	0	21.55	21.67	21.55	23.5		
40	PI2 BPSK	108	54	22.01	22.03	22.09	24.0	0.0	
40	PI2 BPSK	108	108	21.61	21.70	21.67			
40	PI2 BPSK	216	0	21.67	21.72	21.57	23.5		
40	QPSK	1	1	22.12	22.22	22.05	24.0	0.0	
40	QPSK	1	108	22.07	22.08	22.03			
40	QPSK	1	214	22.05	22.10	22.01			
40	QPSK	108	0	21.11	21.10	21.08	23.0	1.0	
40	QPSK	108	54	22.05	22.11	22.03	24.0		
40	QPSK	108	108	21.06	21.15	21.12	23.0		
40	QPSK	216	0	21.04	21.13	21.10	23.0	1.0	
40	16QAM	1	1	21.27	21.34	21.19			
40	64QAM	1	1	19.82	19.85	19.84	21.5	2.5	
40	256QAM	1	1	17.75	17.89	17.74	19.5		
Channel				373990	376990	376990	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1862.5	1867.5			
35	QPSK	1	1	21.99	22.07	22.01	24.0	0.0	
Channel				373090	376990	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1864	1862.5	1860			
30	QPSK	1	1	22.02	22.14	22.01	24.0	0.0	
Channel				372990	376990	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1862.5	1862.5	1862.5			
25	QPSK	1	1	22.07	22.07	22.03	24.0	0.0	
Channel				372090	376990	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1860	1862.5	1865			
20	QPSK	1	1	22.10	22.17	22.03	24.0	0.0	
Channel				371990	376990	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1867.5	1862.5	1867.5			
15	QPSK	1	1	22.09	22.06	22.01	24.0	0.0	
Channel				371090	376990	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1865	1862.5	1865			
10	QPSK	1	1	22.08	22.09	22.02	24.0	0.0	
Channel				370990	376990	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1862.5	1862.5	1862.5			
5	QPSK	1	1	22.04	22.16	21.94	24.0	0.0	

n26_Ant 0									
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				164400	166300	167800			
Frequency (MHz)				804	831.5	859			
20	P12 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.83	22.87			
20	P12 BPSK	1	104	22.85	22.79	22.88			
20	P12 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	P12 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	P12 BPSK	100	0	22.80	22.80	22.91			
20	QPSK	1	1	22.95	22.98	23.02	24.0	0.0	
20	QPSK	1	53	22.90	22.81	22.96			
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83			
20	16QAM	1	1	22.80	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164400	166300	167800	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163000	166300	168800	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163000	166300	169300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.92	22.80	22.86	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				164400	166300	167800			
Frequency (MHz)				804	831.5	859			
20	P12 BPSK	1	1	22.88	22.88	22.87	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.78	22.80			
20	P12 BPSK	1	104	22.90	22.78	22.81			
20	P12 BPSK	50	0	22.85	22.87	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	P12 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	P12 BPSK	100	0	22.80	22.92	22.95			
20	QPSK	1	1	22.95	22.97	23.00	24.0	0.0	
20	QPSK	1	53	22.95	22.92	22.92			
20	QPSK	1	104	22.94	22.87	22.93			
20	QPSK	50	0	22.85	22.91	22.98	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86			
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	64QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164400	166300	168300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				163000	166300	168800	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.88	22.86	22.91	24.0	0.0	
Channel				163000	166300	169300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.85	22.87	22.90	24.0	0.0	



n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					Frequency (MHz)				
					46000				
10	P12 BPSK	1	1		22.02		24.0	0.0	
10	P12 BPSK	1	26		22.00				
10	P12 BPSK	1	50		21.94		23.5	0.5	
10	P12 BPSK	25	0		21.40				
10	P12 BPSK	25	14		21.88		24.0	0.0	
10	P12 BPSK	25	27		21.39		23.5	0.5	
10	P12 BPSK	50	0		21.42				
10	QPSK	1	1		22.05		24.0	0.0	
10	QPSK	1	26		22.03				
10	QPSK	1	50		21.96		23.0	1.0	
10	QPSK	25	0		20.98				
10	QPSK	25	14		22.04		24.0	0.0	
10	QPSK	25	27		20.94		23.0	1.0	
10	QPSK	50	0		21.03		23.0	1.0	
10	16QAM	1	1		21.15				
10	64QAM	1	1		19.75		21.5	2.5	
10	256QAM	1	1		17.61		19.5	4.5	
Channel					461060	460060	462060	Tune-up limit (dBm)	MSR (dB)
Frequency (MHz)					2307.5	2310	2312.5		
5	QPSK	1	1	21.81	21.85	21.91	24.0	0.0	

n30_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					Frequency (MHz)				
					46000				
10	P12 BPSK	1	1		23.02		24.0	0.0	
10	P12 BPSK	1	26		22.99				
10	P12 BPSK	1	50		22.96		24.0	0.0	
10	P12 BPSK	25	0		22.96				
10	P12 BPSK	25	14		23.01		24.0	0.0	
10	P12 BPSK	25	27		22.97		24.0	0.0	
10	P12 BPSK	50	0		22.97				
10	QPSK	1	1		23.03		24.0	0.0	
10	QPSK	1	26		22.97				
10	QPSK	1	50		22.94		24.0	0.0	
10	QPSK	25	0		22.97				
10	QPSK	25	14		22.98		24.0	0.0	
10	QPSK	25	27		22.92		24.0	0.0	
10	QPSK	50	0		22.93		24.0	0.0	
10	16QAM	1	1		22.91				
10	64QAM	1	1		20.44		23.0	1.0	
10	256QAM	1	1		20.25		21.0	3.0	
Channel					461000	460000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)					2307.5	2310	2312.5		
5	QPSK	1	1	22.97	22.99	22.98	24.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000			
Frequency (MHz)				1720	1745	1760			
40	P12 BPSK	1	1	22.91	23.01	22.98			
40	P12 BPSK	1	108	22.98	22.95	22.89	24.0	0.0	
40	P12 BPSK	1	214	22.99	23.00	22.92			
40	P12 BPSK	108	0	22.89	22.94	22.95	24.0	0.0	
40	P12 BPSK	108	54	23.00	23.04	22.99	24.0	0.0	
40	P12 BPSK	108	108	22.94	22.94	22.90			
40	P12 BPSK	216	0	22.98	22.97	22.96	24.0	0.0	
40	QPSK	1	1	23.08	23.10	23.01			
40	QPSK	1	108	23.01	23.03	22.99			
40	QPSK	1	214	22.99	22.95	22.91			
40	QPSK	108	0	22.98	22.91	22.89	24.0	0.0	
40	QPSK	108	54	22.93	22.99	22.95	24.0	0.0	
40	QPSK	108	108	22.91	22.98	22.90	24.0	0.0	
40	QPSK	216	0	22.92	23.01	22.94	24.0	0.0	
40	64QAM	1	1	22.90	22.99	22.97	24.0	0.0	
40	64QAM	1	1	22.12	22.25	22.17	23.0	1.0	
40	256QAM	1	1	20.17	20.23	20.22	21.0	3.0	
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
35	QPSK	1	1	22.94	22.97	22.96	24.0	0.0	
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
30	QPSK	1	1	22.92	22.93	22.92	24.0	0.0	
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
25	QPSK	1	1	22.92	23.02	22.92	24.0	0.0	
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.90	22.93	22.90	24.0	0.0	
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.96	22.94	22.89	24.0	0.0	
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.97	22.99	22.90	24.0	0.0	
Channel				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.90	23.01	22.93	24.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	348000	350000			
Frequency (MHz)				1720	1745	1760			
40	P12 BPSK	1	1	23.29	23.32	23.30			
40	P12 BPSK	1	108	23.18	23.28	23.13	24.0	0.0	
40	P12 BPSK	1	214	23.27	23.33	23.29			
40	P12 BPSK	108	0	22.62	22.75	22.69	23.5	0.5	
40	P12 BPSK	108	54	23.12	23.23	23.21	24.0	0.0	
40	P12 BPSK	108	108	22.64	22.77	22.64			
40	P12 BPSK	216	0	22.74	22.80	22.70	23.5	0.5	
40	QPSK	1	1	23.25	23.35	23.33			
40	QPSK	1	108	23.23	23.25	23.15	24.0	0.0	
40	QPSK	1	214	23.18	23.30	23.26			
40	QPSK	108	0	22.06	22.20	22.12	23.0	1.0	
40	QPSK	108	54	23.22	23.28	23.25	24.0	0.0	
40	QPSK	108	108	22.27	22.32	22.28	23.0	1.0	
40	QPSK	216	0	22.32	22.33	22.19			
40	16QAM	1	1	22.24	22.30	22.28	23.0	1.0	
40	64QAM	1	1	20.79	20.90	20.80	21.5	2.5	
40	256QAM	1	1	18.84	18.96	18.83	19.5	4.5	
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
35	QPSK	1	1	23.12	23.31	23.25	24.0	0.0	
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
30	QPSK	1	1	23.24	23.25	23.20	24.0	0.0	
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1762.5			
25	QPSK	1	1	23.24	23.34	23.21	24.0	0.0	
Channel				344000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.17	23.33	23.23	24.0	0.0	
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.12	23.21	23.24	24.0	0.0	
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.11	23.27	23.19	24.0	0.0	
Channel				342000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.15	23.27	23.30	24.0	0.0	

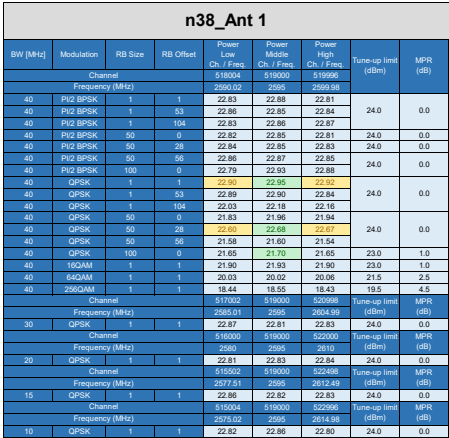
n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	350000			
Frequency (MHz)				1720	1745	1760			
15	P12 BPSK	1	1		22.72				
15	P12 BPSK	1	40		22.70		24.0	0.0	
15	P12 BPSK	1	77		22.68				
15	P12 BPSK	36	0		22.64		24.0	0.0	
15	P12 BPSK	36	22		22.70		24.0	0.0	
15	P12 BPSK	36	43		22.62		24.0	0.0	
15	P12 BPSK	75	0		22.65				
15	QPSK	1	1		22.77				
15	QPSK	1	40		22.68		24.0	0.0	
15	QPSK	1	77		22.61				
15	QPSK	36	0		22.64		24.0	0.0	
15	QPSK	36	22		22.67		24.0	0.0	
15	QPSK	36	43		22.63		24.0	0.0	
15	QPSK	75	0		22.63		24.0	0.0	
15	16QAM	1	1		22.61		23.5	0.5	
15	64QAM	1	1		22.52		23.5	0.5	
15	256QAM	1	1		20.35		21.5	2.5	
Channel				345000	349000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1708	1702.5	1705			
10	QPSK	1	1	22.59	22.61	22.67	24.0	0.0	
Channel				339000	340000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	22.67	22.67	22.63	24.0	0.0	



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1702.5					
15	P12 BPSK	1	1		23.40			0.0	
15	P12 BPSK	1	40		23.35				
15	P12 BPSK	1	77		23.20		23.5	0.5	
15	P12 BPSK	36	0		22.70				
15	P12 BPSK	36	22		23.24		24.0	0.0	
15	P12 BPSK	36	43		22.66		23.5	0.5	
15	P12 BPSK	75	0		22.65				
15	QPSK	1	1		23.41		24.0	0.0	
15	QPSK	1	40		23.38				
15	QPSK	1	77		23.20		23.0	1.0	
15	QPSK	36	0		22.20				
15	QPSK	36	22		23.21		24.0	0.0	
15	QPSK	36	43		22.18		23.0	1.0	
15	QPSK	75	0		22.12				
15	16QAM	1	1		22.50		23.0	1.0	
15	64QAM	1	1		20.95		21.5	2.5	
15	256QAM	1	1		18.96		19.5	4.5	
Channel									
Frequency (MHz)				340900	340950	341000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.31	23.31	23.37	24.0	0.0	
Channel									
Frequency (MHz)				339950	340000	340050	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.31	23.33	23.38	24.0	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	P12 BPSK	1	80	23.01	23.04	22.92			
30	P12 BPSK	1	158	23.00	23.08	23.01	24.0	0.0	
30	P12 BPSK	80	0	22.96	23.01	22.91			
30	P12 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	P12 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	P12 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.08	23.10	23.01	24.0	0.0	
30	QPSK	1	80	22.94	22.96	22.93			
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0	
30	QPSK	80	0	22.89	22.93	22.91			
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.86			
30	16QAM	1	1	22.80	22.83	22.83	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.90	136100	136100	Tune-up limit (dBm)	MPR (dB)	
				670.5	680.5	690.5			
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	133500	136100	Tune-up limit (dBm)	MPR (dB)	
				666	680.5	693			
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	P12 BPSK	1	80	23.15	23.16	23.10			
30	P12 BPSK	1	158	23.18	23.24	23.20	24.0	0.0	
30	P12 BPSK	80	0	23.15	23.19	23.17			
30	P12 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	P12 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	P12 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24	24.0	0.0	
30	QPSK	1	80	23.20	23.18	23.13			
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.09	23.09	23.11			
30	QPSK	80	40	23.13	23.15	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n41_Ant 1									
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 5060000	Power Middle Ch. 2 186800	Power High Ch. 3 520000	Turn-up time (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			2561.01	2562.98				
100	QPSK	1	1	23.14	23.20	23.02			
100	Pv2 BPSK	1	137	23.08	23.15	23.20	24.0	0.0	
100	Pv2 BPSK	1	171	23.01	23.06	22.74			
100	Pv2 BPSK	135	0	23.03	23.08	23.13	24.0	0.0	
100	Pv2 BPSK	135	69	23.05	23.10	23.03	24.0	0.0	
100	Pv2 BPSK	135	138	22.89	22.91	22.64	24.0	0.0	
100	Pv2 BPSK	270	0	22.84	22.96	22.92	24.0	0.0	
100	QPSK	1	1	2520	2522	2532			
100	QPSK	1	137	22.86	23.11	22.98	24.0	0.0	
100	QPSK	1	171	22.95	22.97	22.81			
100	QPSK	135	0	22.91	22.95	22.78	24.0	0.0	
100	QPSK	135	69	22.93	22.96	22.80	24.0	0.0	
100	QPSK	135	138	22.89	22.91	22.59	24.0	0.0	
100	QPSK	270	0	22.91	22.94	22.84	24.0	0.0	
100	16QAM	1	1	22.80	22.81	22.74	24.0	0.0	
100	16QAM	1	137	22.81	22.87	22.80	23.8	0.0	
100	16QAM	1	171	20.85	20.82	20.76	21.5	2.5	
Channel									
	Frequency (MHz)			5062000	186800	520900	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	23.07	23.20	22.96	24.0	0.0	
Channel									
	Frequency (MHz)			507200	186800	520900	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	2561.02	2562.98	2564.99			
	Frequency (MHz)			23.10	23.14	22.98	24.0	0.0	
Channel									
	Frequency (MHz)			2561.01	2562.99	2565	Turn-up time (dBm)	MPR (dB)	
70	QPSK	1	1	22.81	22.85	22.84	24.0	0.0	
Channel									
	Frequency (MHz)			3006	2609.99	2609.98	Turn-up time (dBm)	MPR (dB)	
60	QPSK	1	1	23.09	23.20	22.96	24.0	0.0	
Channel									
	Frequency (MHz)			504200	186800	520900	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	2561.01	2562.98	2564.98			
Channel									
	Frequency (MHz)			2531	2533	2528	24.0	0.0	
40	QPSK	1	1	23.05	23.20	22.97	24.0	0.0	
Channel									
	Frequency (MHz)			5062000	186800	520900	Turn-up time (dBm)	MPR (dB)	
30	QPSK	1	1	23.11	23.13	22.93	24.0	0.0	
Channel									
	Frequency (MHz)			501200	186800	520900	Turn-up time (dBm)	MPR (dB)	
20	QPSK	1	1	2561.02	2562.99	2679.99	24.0	0.0	
Channel									
	Frequency (MHz)			23.08	23.17	22.95	24.0	0.0	
10	QPSK	1	1	2561.02	2562.99	2682.48	24.0	0.0	
Channel									
	Frequency (MHz)			23.09	23.14	22.93	24.0	0.0	
5	QPSK	1	1	2561.01	2562.99	337000	Turn-up time (dBm)	MPR (dB)	
Channel									
	Frequency (MHz)			23.07	23.16	22.94	24.0	0.0	

n41_Ant 1_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509002	518098	526000			
Frequency (MHz)				2548.01	2592.99	2540			
100	PQ2 BPSK	1	1	25.13	25.21	25.11			
100	PQ2 BPSK	1	137	25.30	25.34	25.25	27.0	0.0	
100	PQ2 BPSK	1	271	25.11	25.12	25.08			
100	PQ2 BPSK	135	0	24.77	24.80	24.76	26.5	0.5	
100	PQ2 BPSK	135	69	25.33	25.34	25.30	27.0	0.0	
100	PQ2 BPSK	135	138	24.50	24.55	24.53	26.5	0.5	
100	PQ2 BPSK	270	0	24.71	24.79	24.71			
100	QPSK	1	1	25.23	25.35	25.23			
100	QPSK	1	137	25.25	25.32	25.21	27.0	0.0	
100	QPSK	1	271	24.72	24.81	24.71			
100	QPSK	135	0	24.08	24.17	24.16			
100	QPSK	135	69	25.36	25.32	25.24	27.0	0.0	
100	QPSK	135	138	24.07	24.10	24.00			
100	QPSK	270	0	24.29	24.31	24.28	26.0	1.0	
100	16QAM	1	1	24.39	24.43	24.37	26.0	1.0	
100	64QAM	1	1	22.77	22.87	22.86	24.5	2.5	
100	256QAM	1	1	20.95	20.99	20.78	22.5	4.5	
Channel				506200	518098	526096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	25.06	25.12	25.15	27.0	0.0	
Channel				507204	518098	526098	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2548.99	(dBm)	(dB)	
80	QPSK	1	1	25.08	25.15	25.08	27.0	0.0	
Channel				505202	518098	527000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2565	(dBm)	(dB)	
70	QPSK	1	1	25.09	25.20	25.12	27.0	0.0	
Channel				503200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2524	2592.99	2574.98	(dBm)	(dB)	
60	QPSK	1	1	25.11	25.18	25.15	27.0	0.0	
Channel				504204	518098	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2564.99	(dBm)	(dB)	
50	QPSK	1	1	25.10	25.15	25.11	27.0	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)	
40	QPSK	1	1	25.09	25.20	25.10	27.0	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	25.11	25.20	25.15	27.0	0.0	
Channel				507204	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2592.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	25.08	25.15	25.13	27.0	0.0	
Channel				500700	518098	538498	Tune-up limit	MPR	
Frequency (MHz)				2503.01	2592.99	2584.98	(dBm)	(dB)	
15	QPSK	1	1	25.11	25.12	25.15	27.0	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2580	(dBm)	(dB)	
10	QPSK	1	1	25.07	25.15	25.11	27.0	0.0	



n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Middle Ch. / Freq. 518598	Power High Ch. / Freq. 526000	Tune-up limit (dBm)	MPR (dB)	
Channel				2545.01	2592.99	2540			
Frequency (MHz)				2545.01	2592.99	2540			
100	PQ2 BPSK	1	1	20.31	20.44	20.29			
100	PQ2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21			
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.05	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13			
100	QPSK	135	69	20.05	20.36	20.24	22.0	0.0	
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98			
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.25	20.45 <th>20.33</th> <th>22.0</th> <th colspan="2">0.0</th>	20.33	22.0	0.0	
Channel				502205	518598	535956	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Mid Ch. / Freq. 518598	Power High Ch. / Freq. 526000	Tune-up time (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2540			
Frequency (MHz)									
100	PQ2 BPSK	1	1	22.43	22.46	22.22			
100	PQ2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0	
100	PQ2 BPSK	1	271	22.19	22.23	22.21			
100	PQ2 BPSK	135	0	21.88	21.99	21.86	23.5	0.5	
100	PQ2 BPSK	135	69	22.08	22.10	22.06	24.0	0.0	
100	PQ2 BPSK	135	138	21.75	21.89	21.69	23.5	0.5	
100	PQ2 BPSK	270	0	21.75	21.85	21.74			
100	QPSK	1	1	22.43	22.51	22.44			
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0	
100	QPSK	1	271	22.08	22.18	22.12			
100	QPSK	135	0	21.83	21.92	21.83			
100	QPSK	135	69	22.07	22.06	22.04	24.0	0.0	
100	QPSK	135	138	21.45	21.46	21.34			
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0	
100	16QAM	1	1	21.68	21.83	21.68	23.0	1.0	
100	64QAM	1	1	20.31	20.32	20.29	21.5	2.5	
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5	
Channel				506000	518598	526006	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.33	22.35	22.12	24.0	0.0	
Channel				507204	518598	520968	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.38	22.43	22.11	24.0	0.0	
Channel				507502	518598	531010	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0	
Channel				502000	518598	531986	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0	
Channel				504204	518598	532968	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	22.35	22.43	22.15	24.0	0.0	
Channel				503002	518598	534000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.34	22.36	22.21	24.0	0.0	
Channel				502205	518598	535956	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0	
Channel				507204	518598	532968	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0	
Channel				500700	518598	536496	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0	
Channel				506002	518598	537000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	22.37	22.34	22.15	24.0	0.0	

n41_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	23.94	23.15	22.87			
100	PQ2 BPSK	1	137	22.97	23.06	22.86	24.0	0.0	
100	PQ2 BPSK	1	271	22.81	22.89	22.86			
100	PQ2 BPSK	135	0	22.96	23.11	22.86	24.0	0.0	
100	PQ2 BPSK	135	69	23.00	23.15	22.80	24.0	0.0	
100	PQ2 BPSK	135	138	22.74	22.88	22.80	24.0	0.0	
100	PQ2 BPSK	270	0	22.96	23.05	22.84			
100	QPSK	1	1	22.97	23.18	22.84			
100	QPSK	1	137	22.95	23.06	22.83	24.0	0.0	
100	QPSK	1	271	22.90	22.91	22.79			
100	QPSK	135	0	22.92	23.04	22.79			
100	QPSK	135	69	22.94	23.09	22.79	24.0	0.0	
100	QPSK	135	138	22.82	22.75	22.64			
100	QPSK	270	0	22.88	22.72	22.61	24.0	0.0	
100	16QAM	1	1	22.91	23.07	22.86	24.0	0.0	
100	64QAM	1	1	21.85	21.91	21.86	22.5	1.5	
100	256QAM	1	1	19.85	19.79	19.73	20.5	3.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98			
90	QPSK	1	1	22.93	23.10	22.88	24.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2549.99			
80	QPSK	1	1	22.98	23.10	22.80	24.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2555			
70	QPSK	1	1	23.02	23.05	23.01	24.0	0.0	
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2559.98			
60	QPSK	1	1	22.92	23.05	22.86	24.0	0.0	
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2554.99			
50	QPSK	1	1	22.99	23.12	22.89	24.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	22.95	23.07	22.86	24.0	0.0	
Channel				502200	518598	535906	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2574.98			
30	QPSK	1	1	22.98	23.06	22.89	24.0	0.0	
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2579.99			
20	QPSK	1	1	22.90	23.12	22.85	24.0	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2582.48			
15	QPSK	1	1	22.99	23.04	22.88	24.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2585			
10	QPSK	1	1	22.85	23.05	22.85	24.0	0.0	

n41_Ant 5_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	24.23	24.27	24.20			
100	PQ2 BPSK	1	137	24.10	24.12	24.11	26.0	0.0	
100	PQ2 BPSK	1	271	24.07	24.14	24.07			
100	PQ2 BPSK	135	0	23.69	23.75	23.72	25.5	0.5	
100	PQ2 BPSK	135	69	24.02	24.07	24.04	26.0	0.0	
100	PQ2 BPSK	135	138	23.50	23.55	23.53	25.5	0.5	
100	PQ2 BPSK	270	0	23.59	23.56	23.52			
100	QPSK	1	1	24.33	24.64	24.33			
100	QPSK	1	137	24.15	24.21	24.15	26.0	0.0	
100	QPSK	1	271	24.11	24.18	24.09			
100	QPSK	135	0	23.22	23.24	23.22			
100	QPSK	135	69	23.56	24.43	23.52	26.0	0.0	
100	QPSK	135	138	22.94	22.96	22.94			
100	QPSK	270	0	23.48	23.51	23.41	25.0	1.0	
100	16QAM	1	1	23.56	23.62	23.55	25.0	1.0	
100	64QAM	1	1	22.06	22.09	22.01	23.5	2.5	
100	256QAM	1	1	19.95	19.97	19.91	21.5	4.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98			
90	QPSK	1	1	24.40	24.61	24.48	26.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2549.99			
80	QPSK	1	1	24.51	24.57	24.47	26.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2555			
70	QPSK	1	1	24.50	24.62	24.51	26.0	0.0	
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2559.98			
60	QPSK	1	1	24.47	24.62	24.49	26.0	0.0	
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2554.99			
50	QPSK	1	1	24.49	24.59	24.50	26.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	24.47	24.57	24.52	26.0	0.0	
Channel				502200	518598	535906	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2574.98			
30	QPSK	1	1	24.46	24.60	24.48	26.0	0.0	
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2579.99			
20	QPSK	1	1	24.48	24.58	24.51	26.0	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2582.48			
15	QPSK	1	1	24.48	24.63	24.48	26.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2585			
10	QPSK	1	1	24.45	24.55	24.47	26.0	0.0	

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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				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MPR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0
Channel				502200	518098	535000	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536496	Tune-up limit	MPR
Frequency (MHz)				2603.5	2592.99	2683.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506002	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.46	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	535996	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				506002	518598	526000	
Frequency (MHz)				2540.01	2592.99	2540	
100	PQ2 BPSK	1	1	23.14	23.12	23.02	
100	PQ2 BPSK	1	137	23.12	23.09	22.97	24.0
100	PQ2 BPSK	1	271	23.13	23.18	23.01	
100	PQ2 BPSK	135	0	23.06	23.13	22.96	24.0
100	PQ2 BPSK	135	69	23.11	23.15	22.99	24.0
100	PQ2 BPSK	135	138	23.05	23.10	22.98	24.0
100	PQ2 BPSK	270	0	23.08	23.11	22.96	24.0
100	QPSK	1	1	23.13	23.21	23.04	
100	QPSK	1	137	23.09	23.09	22.89	24.0
100	QPSK	1	271	23.04	23.12	22.93	
100	QPSK	135	0	23.06	23.13	22.94	24.0
100	QPSK	135	69	23.07	23.16	22.97	24.0
100	QPSK	135	138	23.08	23.10	22.91	24.0
100	QPSK	270	0	23.09	23.15	22.92	24.0
100	16QAM	1	1	23.05	23.16	22.89	24.0
100	64QAM	1	1	23.10	23.07	22.94	24.0
100	256QAM	1	1	22.42	22.45	22.41	23.5
Channel				506000	518598	526006	MFR
Frequency (MHz)				2541	2592.99	2544.98	(dB)
90	QPSK	1	1	23.04	23.11	22.85	24.0
Channel				507204	518598	526968	MFR
Frequency (MHz)				2536.02	2592.99	2548.99	(dB)
80	QPSK	1	1	23.10	23.09	22.88	24.0
Channel				507502	518598	527000	MFR
Frequency (MHz)				2531.01	2592.99	2555	(dB)
70	QPSK	1	1	23.04	23.01	22.85	24.0
Channel				508200	518598	531986	MFR
Frequency (MHz)				2526	2592.99	2569.98	(dB)
60	QPSK	1	1	23.01	23.11	22.90	24.0
Channel				504204	518598	532968	MFR
Frequency (MHz)				2521.02	2592.99	2564.99	(dB)
50	QPSK	1	1	23.10	23.15	22.95	24.0
Channel				503202	518598	534000	MFR
Frequency (MHz)				2516.01	2592.99	2570	(dB)
40	QPSK	1	1	23.08	23.12	22.99	24.0
Channel				502205	518598	535966	MFR
Frequency (MHz)				2511	2592.99	2574.98	(dB)
30	QPSK	1	1	23.04	23.09	22.90	24.0
Channel				507204	518598	536966	MFR
Frequency (MHz)				2506.02	2592.99	2579.99	(dB)
20	QPSK	1	1	23.00	23.11	22.91	24.0
Channel				500700	518598	536486	MFR
Frequency (MHz)				2503.5	2592.99	2582.48	(dB)
15	QPSK	1	1	23.02	23.09	22.88	24.0
Channel				506002	518598	537000	MFR
Frequency (MHz)				2501.01	2592.99	2585	(dB)
10	QPSK	1	1	23.05	23.07	22.95	24.0

n41_Ant 9_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				506002	518598	526000	
Frequency (MHz)				2540.01	2592.99	2540	
100	PQ2 BPSK	1	1	25.94	26.03	25.75	
100	PQ2 BPSK	1	137	25.97	26.02	25.84	27.0
100	PQ2 BPSK	1	271	26.10	26.05	25.81	
100	PQ2 BPSK	135	0	26.00	26.05	25.79	27.0
100	PQ2 BPSK	135	69	26.01	26.05	25.86	27.0
100	PQ2 BPSK	135	138	25.90	25.95	25.79	27.0
100	PQ2 BPSK	270	0	25.99	26.04	25.78	27.0
100	QPSK	1	1	25.15	25.16	25.01	
100	QPSK	1	137	26.07	25.95	25.81	27.0
100	QPSK	1	271	25.59	25.72	25.62	
100	QPSK	135	0	25.84	25.67	25.63	27.0
100	QPSK	135	69	25.97	26.00	25.76	27.0
100	QPSK	135	138	25.20	25.21	25.10	27.0
100	QPSK	270	0	25.24	25.34	25.26	26.0
100	16QAM	1	1	24.21	25.31	25.22	26.0
100	64QAM	1	1	24.57	24.65	24.53	25.0
100	256QAM	1	1	22.47	22.49	22.34	23.5
Channel				506000	518598	526966	MFR
Frequency (MHz)				2541	2592.99	2544.98	(dB)
90	QPSK	1	1	25.94	25.97	25.75	27.0
Channel				507204	518598	526968	MFR
Frequency (MHz)				2536.02	2592.99	2548.99	(dB)
80	QPSK	1	1	25.98	26.03	25.80	27.0
Channel				507502	518598	527000	MFR
Frequency (MHz)				2531.01	2592.99	2555	(dB)
70	QPSK	1	1	25.94	26.01	25.75	27.0
Channel				508200	518598	531986	MFR
Frequency (MHz)				2526	2592.99	2569.98	(dB)
60	QPSK	1	1	25.97	25.99	25.84	27.0
Channel				504204	518598	532968	MFR
Frequency (MHz)				2521.02	2592.99	2564.99	(dB)
50	QPSK	1	1	25.99	26.01	25.83	27.0
Channel				503202	518598	534000	MFR
Frequency (MHz)				2516.01	2592.99	2570	(dB)
40	QPSK	1	1	26.00	26.04	25.76	27.0
Channel				502205	518598	535966	MFR
Frequency (MHz)				2511	2592.99	2574.98	(dB)
30	QPSK	1	1	25.92	26.00	25.76	27.0
Channel				507204	518598	536966	MFR
Frequency (MHz)				2506.02	2592.99	2579.99	(dB)
20	QPSK	1	1	25.99	26.01	25.77	27.0
Channel				500700	518598	536486	MFR
Frequency (MHz)				2503.5	2592.99	2582.48	(dB)
15	QPSK	1	1	25.98	25.97	25.75	27.0
Channel				506002	518598	537000	MFR
Frequency (MHz)				2501.01	2592.99	2585	(dB)
10	QPSK	1	1	25.95	26.05	25.83	27.0



n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				6370	6324.99	6379.98			
40	PI2 BPSK	1	1	22.83	22.02	22.00			
40	PI2 BPSK	1	53	22.81	22.98	22.94	24.0	0.0	
40	PI2 BPSK	1	104	22.81	22.98	22.94			
40	PI2 BPSK	50	0	22.71	22.90	22.88	24.0	0.0	
40	PI2 BPSK	50	26	22.76	22.97	22.96	24.0	0.0	
40	PI2 BPSK	50	56	22.73	22.92	22.87			
40	PI2 BPSK	100	0	22.68	22.91	22.89	24.0	0.0	
40	QPSK	1	1	22.80	22.03	22.07			
40	QPSK	1	53	22.85	22.92	22.84	24.0	0.0	
40	QPSK	1	104	22.85	22.83	22.77			
40	QPSK	50	0	22.88	22.83	22.83			
40	QPSK	50	26	22.78	22.91	22.86	24.0	0.0	
40	QPSK	50	56	22.85	22.84	22.77			
40	QPSK	100	0	22.86	22.82	22.79	24.0	0.0	
40	16QAM	1	1	22.81	22.82	22.82	24.0	0.0	
40	64QAM	1	1	22.82	22.96	22.43	23.0	1.0	
40	256QAM	1	1	20.52	20.81	20.31	21.0	3.0	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3093.02	3024.99	3084.99			
30	QPSK	1	1	22.64	22.92	22.78	24.0	0.0	
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3060.01	3024.99	3060			
20	QPSK	1	1	22.63	22.90	22.81	24.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3055	3024.99	3064.98			
10	QPSK	1	1	22.63	22.91	22.84	24.0	0.0	

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				6370	6324.99	6379.98			
40	PI2 BPSK	1	1	22.61	22.71	22.48			
40	PI2 BPSK	1	53	22.54	22.66	22.46	24.0	0.0	
40	PI2 BPSK	1	104	22.36	22.16	22.37			
40	PI2 BPSK	50	0	22.37	22.31	22.12	23.5	0.5	
40	PI2 BPSK	50	26	22.48	22.54	22.41	24.0	0.0	
40	PI2 BPSK	50	56	22.37	22.29	22.21	23.5	0.5	
40	PI2 BPSK	100	0	22.41	22.18	22.26			
40	QPSK	1	1	22.64	22.76	22.51			
40	QPSK	1	53	22.41	22.69	22.31	24.0	0.0	
40	QPSK	1	104	22.38	22.26	22.13			
40	QPSK	50	0	22.18	22.38	22.09			
40	QPSK	50	26	22.57	22.59	22.48	24.0	0.0	
40	QPSK	50	56	22.06	22.09	22.08			
40	QPSK	100	0	22.23	22.31	22.26	23.0	1.0	
40	16QAM	1	1	22.19	22.36	22.17	23.0	1.0	
40	64QAM	1	1	20.29	20.36	20.31	21.5	2.5	
40	256QAM	1	1	19.03	19.08	18.96	19.5	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3093.02	3024.99	3084.99			
30	QPSK	1	1	22.60	22.57	22.63	24.0	0.0	
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3060.01	3024.99	3060			
20	QPSK	1	1	22.60	22.58	22.54	24.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3055	3024.99	3064.98			
10	QPSK	1	1	22.60	22.56	22.54	24.0	0.0	



n48_FCC_Part96_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Max Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				320.9	323.99	326.98			
40	Pl2 BPSK	1	1	21.27	21.53	20.99	22.5	0.0	
40	Pl2 BPSK	1	53	20.76	20.88	20.84			
40	Pl2 BPSK	1	104	21.07	21.22	21.14			
40	Pl2 BPSK	50	0	20.71	20.70	20.70			
40	Pl2 BPSK	50	26	21.33	21.26	21.25	22.5	0.0	
40	Pl2 BPSK	50	56	20.65	20.65	20.66	22.5	0.0	
40	Pl2 BPSK	100	0	20.61	20.68	20.67			
40	QPSK	1	1	21.30	21.48	21.40			
40	QPSK	1	53	21.33	21.35	21.20			
40	QPSK	1	104	21.10	21.17	21.07	22.5	0.0	
40	QPSK	50	0	20.72	20.80	20.78			
40	QPSK	50	26	21.26	21.26	21.26			
40	QPSK	50	56	20.69	20.74	20.66			
40	QPSK	100	0	20.61	20.71	20.64	22.0	0.5	
40	16QAM	1	1	19.89	20.03	19.99	21.5	1.0	
40	16QAM	1	1	18.29	18.37	18.27	20.0	2.5	
40	256QAM	1	1	18.96	18.97	18.72	18.0	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	21.54	21.47	21.43	22.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	21.30	21.44	21.45	22.5	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98			
10	QPSK	1	1	21.30	21.44	21.40	22.5	0.0	

n48_FCC_Part96_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Max Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				320.9	323.99	326.98			
40	Pl2 BPSK	1	1	22.83	23.09	22.93	24.0	0.0	
40	Pl2 BPSK	1	53	22.83	22.96	22.85			
40	Pl2 BPSK	1	104	22.92	22.96	22.92			
40	Pl2 BPSK	50	0	22.94	22.32	22.23			
40	Pl2 BPSK	50	26	22.71	22.81	22.69	23.0	0.0	
40	Pl2 BPSK	50	56	22.21	22.28	22.20	23.5	0.5	
40	Pl2 BPSK	100	0	22.17	22.25	22.20			
40	QPSK	1	1	22.96	23.03	22.94			
40	QPSK	1	53	22.76	22.86	22.71			
40	QPSK	1	104	22.40	22.52	22.48	24.0	0.0	
40	QPSK	50	0	22.63	22.77	22.64			
40	QPSK	50	26	22.76	22.61	22.74			
40	QPSK	50	56	21.67	21.70	21.69			
40	QPSK	100	0	21.53	21.68	21.56	23.0	1.0	
40	16QAM	1	1	21.99	22.00	21.96	23.0	1.0	
40	16QAM	1	1	20.42	20.46	20.34	21.5	2.5	
40	256QAM	1	1	18.39	18.45	18.31	18.5	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	22.02	22.91	22.92	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	22.87	22.99	22.80	24.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98			
10	QPSK	1	1	22.92	22.95	22.84	24.0	0.0	

Par270 n77_Ant 4									
BW [MHz]	Modulation	RB 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	23.21	23.15			
100	Pi2 BPSK	1	137	22.88	23.13	23.07	24.0	0.0	
100	Pi2 BPSK	1	271	22.97	23.15	23.05			
100	Pi2 BPSK	136	0	22.89	23.13	23.11	24.0	0.0	
100	Pi2 BPSK	136	69	22.93	23.20	23.07	24.0	0.0	
100	Pi2 BPSK	136	138	22.93	23.18	23.04	24.0	0.0	
100	Pi2 BPSK	270	0	22.96	23.19	23.14	24.0	0.0	
100	QPSK	1	1	23.11	23.32	23.24			
100	QPSK	1	137	23.05	23.16	23.14	24.0	0.0	
100	QPSK	1	271	23.03	23.10	23.05			
100	QPSK	136	0	22.88	22.93	22.87			
100	QPSK	136	69	22.91	23.02	22.95	24.0	0.0	
100	QPSK	136	138	22.94	22.97	22.83			
100	QPSK	270	0	22.89	22.92	22.85	24.0	0.0	
100	16QAM	1	1	23.18	23.20	23.14	24.0	0.0	
100	64QAM	1	1	23.10	23.14	23.07	24.0	0.0	
100	256QAM	1	1	23.21	23.22	23.21	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.03	23.29	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.03	23.20	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.00	23.21	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.00	23.25	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.97	23.26	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.99	23.30	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.97	23.28	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	23.29	23.23	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.05	23.21	23.17	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.01	23.27	23.24	24.0	0.0	

Par270 n77_Ant 4_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	25.81	26.11	26.05			
100	Pi2 BPSK	1	137	25.86	26.08	25.98	27.0	0.0	
100	Pi2 BPSK	1	271	25.89	26.06	25.94			
100	Pi2 BPSK	136	0	25.88	26.03	25.98	27.0	0.0	
100	Pi2 BPSK	136	69	25.90	26.06	26.02	27.0	0.0	
100	Pi2 BPSK	136	138	25.84	26.05	25.95	27.0	0.0	
100	Pi2 BPSK	270	0	25.87	26.09	25.94			
100	QPSK	1	1	25.97	26.24	26.05			
100	QPSK	1	137	25.92	26.15	26.02	27.0	0.0	
100	QPSK	1	271	25.94	26.16	26.01			
100	QPSK	136	0	25.87	25.92	25.89			
100	QPSK	136	69	25.86	25.96	25.91	27.0	0.0	
100	QPSK	136	138	25.88	25.90	25.88			
100	QPSK	270	0	25.78	25.84	25.78	27.0	0.0	
100	16QAM	1	1	26.15	26.22	26.17	27.0	0.0	
100	64QAM	1	1	25.15	25.20	25.13	26.0	0.0	
100	256QAM	1	1	23.18	23.20	23.18	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.82	26.06	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.85	26.00	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.84	26.04	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.84	26.06	25.98	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.90	26.03	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.86	26.08	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.84	26.03	26.04	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.88	26.03	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.83	26.03	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.81	26.08	25.98	27.0	0.0	

Par27Q n77_Ant 4									
BW [MHz]	Modulation	RB 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		633352	349158			
100	Pi2 BPSK	1	137		22.97		24.0	0.0	
100	Pi2 BPSK	1	271		22.96				
100	Pi2 BPSK	136	0		22.91		24.0	0.0	
100	Pi2 BPSK	136	69		23.01		24.0	0.0	
100	Pi2 BPSK	136	138		22.99		24.0	0.0	
100	Pi2 BPSK	270	0		22.98				
100	QPSK	1	1		22.13				
100	QPSK	1	137		23.01		24.0	0.0	
100	QPSK	1	271		23.12				
100	QPSK	136	0		22.77				
100	QPSK	136	69		22.87		24.0	0.0	
100	QPSK	136	138		22.89				
100	QPSK	270	0		22.74		24.0	0.0	
100	16QAM	1	1		23.03		24.0	0.0	
100	64QAM	1	1		23.09		24.0	0.0	
100	256QAM	1	1		23.00		24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.97	23.00	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.95	22.96	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.92	22.90	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.94	22.94	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.98	22.98	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.94	22.92	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.94	22.96	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.88	22.89	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.96	22.97	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	22.95	22.83	24.0	0.0	

RF (MHz)	Modulation	RB Size	RB Offset	Power Low On / Freq.	Power Middle On / Freq.	Power High On / Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63350	63352	63366		
100	P12 BPSK	1	1	25.08	25.08	25.08		
100	P12 BPSK	1	137	25.06	25.06	27.0	27.0	0.0
100	P12 BPSK	1	271	25.04	25.04	27.0	27.0	0.0
100	P12 BPSK	136	0	25.92	25.92	27.0	27.0	0.0
100	P12 BPSK	136	68	25.90	25.90	27.0	27.0	0.0
100	P12 BPSK	136	136	25.88	25.88	27.0	27.0	0.0
100	P12 BPSK	270	0	25.08	25.08	27.0	27.0	0.0
100	QPSK	1	1	25.06	25.06	27.0	27.0	0.0
100	QPSK	1	137	25.02	25.02	27.0	27.0	0.0
100	QPSK	1	271	25.05	25.05	27.0	27.0	0.0
100	QPSK	136	0	25.87	25.87	27.0	27.0	0.0
100	QPSK	136	68	25.88	25.88	27.0	27.0	0.0
100	QPSK	136	136	25.94	25.94	27.0	27.0	0.0
100	QPSK	270	0	25.74	25.74	27.0	27.0	0.0
100	16QAM	1	1	22.03	22.03	27.0	27.0	0.0
100	16QAM	1	1	25.01	25.01	27.0	27.0	0.0
100	256QAM	1	1	26.08	26.08	24.0	24.0	3.0
Channel								
Frequency (MHz)				63360	63362	63366	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	25.94	25.91	25.88	27.0	0.0
Channel								
Frequency (MHz)				63698	63352	63400	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	3469.02	3469.08	3469.10	27.0	0.0
Frequency (MHz)				25.93	25.84	25.92	27.0	0.0
Frequency (MHz)				3469.04	63352	3469.10	27.0	0.0
Frequency (MHz)				3469.01	3469.08	3469.10	27.0	0.0
70	QPSK	1	1	25.91	25.82	25.88	27.0	0.0
Channel								
Frequency (MHz)				63500	63352	63500	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	25.91	25.81	25.95	27.0	0.0
Frequency (MHz)				63168	63352	63500	Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				3469.02	3469.08	3469.10	27.0	0.0
50	QPSK	1	1	25.86	25.86	25.95	27.0	0.0
Channel								
Frequency (MHz)				63134	63352	63532	Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				63020	63352	63532	Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				25.84	25.87	25.95	27.0	0.0
Channel								
Frequency (MHz)				63100	63352	63666	Turn-up time (dBm)	MPR (dB)
Frequency (MHz)				3465	3469.08	3542.09	27.0	0.0
Frequency (MHz)				25.85	25.88	25.91	27.0	0.0
Channel								
Frequency (MHz)				63068	63352	63600	Turn-up time (dBm)	MP

Par270 n77_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1750	3440	3490			
100	QPSK	1	1	22.92	23.05	23.01			
100	PV2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0	
100	PV2 BPSK	1	271	22.92	23.03	22.81			
100	PV2 BPSK	135	0	22.82	22.92	22.88	24.0	0.0	
100	PV2 BPSK	135	69	22.95	23.05	23.07	24.0	0.0	
100	PV2 BPSK	135	138	22.79	22.89	22.81			
100	PV2 BPSK	270	0	22.72	22.82	22.85	24.0	0.0	
100	QPSK	1	1	23.02	23.16	22.98			
100	QPSK	1	137	22.92	23.08	22.93	24.0	0.0	
100	QPSK	1	271	22.91	23.02	22.83			
100	QPSK	135	0	22.90	22.97	22.80			
100	QPSK	135	69	22.93	23.03	23.05	24.0	0.0	
100	QPSK	135	138	22.84	22.89	22.87			
100	QPSK	270	0	22.86	23.02	22.76	24.0	0.0	
100	16QAM	1	1	22.82	23.02	22.82	24.0	0.0	
100	16QAM	1	137	22.97	23.08	22.91	23.8	0.6	
100	16QAM	1	271	22.91	23.04	22.86			
100	256QAM	1	1	20.41	20.49	20.36	21.5	2.5	
Channel									
Frequency (MHz)				64968	65000	65032	Turn-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.85	23.11	22.77	24.0	0.0	
Channel									
Frequency (MHz)				64534	65000	65066	Turn-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	23.65	23.84	23.99	24.0	0.0	
Channel									
Frequency (MHz)				3735	3840	3845			
70	QPSK	1	1	22.84	23.04	22.78	24.0	0.0	
Channel									
Frequency (MHz)				3730.02	3840	3849.98	Turn-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0	
Channel									
Frequency (MHz)				64533	65000	65066	Turn-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.90	22.96	22.76	24.0	0.0	
Channel									
Frequency (MHz)				64600	65000	65400	Turn-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.87	23.01	22.93	24.0	0.0	
Channel									
Frequency (MHz)				64768	65000	65432	Turn-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.15	23.40	23.48	24.0	0.0	
Channel									
Frequency (MHz)				3710.01	3840	3869.99	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0	
Channel									
Frequency (MHz)				3707.52	3840	3872.48	Turn-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.85	23.01	22.76	24.0	0.0	
Channel									
Frequency (MHz)				64700	65000	65300	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.05	23.27	22.83	24.0	0.0	

Par270 n77_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RF Offset	Power Low Ch. 1 (mW)	Power Middle Ch. 1 (mW)	Power High Ch. 1 (mW)	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	1750	3400	3400			
100	P2 BPSK	1	1	24.43	24.58	24.51			
100	P2 BPSK	1	137	24.58	24.64	24.50	26.0	0.0	
100	P2 BPSK	1	271	24.50	24.48	24.19			
100	P2 BPSK	135	0	24.41	24.58	24.29	25.5	0.5	
100	P2 BPSK	135	66	24.51	24.53	24.41	26.0	0.0	
100	P2 BPSK	135	136	24.43	24.41	24.33	25.5	0.5	
100	P2 BPSK	270	0	24.29	24.35	24.33			
100	QPSK	1	1	24.51	24.85	24.46			
100	QPSK	1	137	24.46	24.58	24.38	26.0	0.0	
100	QPSK	1	271	24.48	24.53	24.29			
100	QPSK	135	0	24.16	24.25	24.09			
100	QPSK	135	66	24.41	24.43	24.33	26.0	0.0	
100	QPSK	135	136	24.47	24.18	24.01			
100	QPSK	270	0	23.68	23.71	23.58	25.0	1.0	
100	16QAM	1	1	23.61	23.68	23.46	25.0	1.0	
100	16QAM	1	137	22.41	22.51	22.37	23.8	2.8	
100	256QAM	1	1	20.70	20.75	20.71	21.5	4.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	646968	660000	66532	Turn-up time (dBm)	MPR (dB)	
60	QPSK	1	1	24.32	24.46	24.28	26.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64534	659000	66266	Turn-up time (dBm)	MPR (dB)	
80	QPSK	1	1	3746.01	3840	3809.99			
Channel									
Frequency (MHz)									
70	QPSK	1	1	3795	3840	3845	Turn-up time (dBm)	MPR (dB)	
70	QPSK	1	1	24.44	24.56	24.28	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	646968	660000	66532	Turn-up time (dBm)	MPR (dB)	
60	QPSK	1	1	3730.02	3840	3849.98			
60	QPSK	1	1	24.31	24.47	24.38	26.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	646534	659000	66366	Turn-up time (dBm)	MPR (dB)	
50	QPSK	1	1	3797.50	3840	3845.50			
50	QPSK	1	1	24.40	24.53	24.40	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	646000	656000	664000	Turn-up time (dBm)	MPR (dB)	
40	QPSK	1	1	3797.50	3840	3845.50			
40	QPSK	1	1	24.36	24.49	24.41	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	660000	664532	Turn-up time (dBm)	MPR (dB)	
30	QPSK	1	1	3733.02	3840.00	3843.98			
30	QPSK	1	1	24.45	24.54	24.34	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647330	656000	664668	Turn-up time (dBm)	MPR (dB)	
20	QPSK	1	1	3710.01	3840	3869.99			
20	QPSK	1	1	24.45	24.47	24.26	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647166	656000	664832	Turn-up time (dBm)	MPR (dB)	
15	QPSK	1	1	3797.50	3840	3892.48			
15	QPSK	1	1	24.31	24.58	24.36	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	656000	665000	Turn-up time (dBm)	MPR (dB)	
10	QPSK	1	1	24.45	24.64	24.34	26.0	0.0	

Par27Q n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	22.72	633332		
100	PQ2 BPSK	1	137	23.08	3499.98		24.0
100	PQ2 BPSK	1	271	23.04			
100	PQ2 BPSK	135	0	22.64			24.0
100	PQ2 BPSK	135	69	22.83			24.0
100	PQ2 BPSK	135	138	23.05			
100	PQ2 BPSK	270	0	22.91			24.0
100	QPSK	1	1	23.12			
100	QPSK	1	137	22.89			24.0
100	QPSK	1	271	22.70			
100	QPSK	135	0	22.70			
100	QPSK	135	69	22.86			24.0
100	QPSK	135	138	22.75			
100	QPSK	270	0	22.81			24.0
100	16QAM	1	1	22.82			24.0
100	64QAM	1	1	22.75			23.5
100	256QAM	1	1	20.85			23.5
Channel							
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	3495	3499.98	3504.99	(dBm) (dB)
Channel							
Frequency (MHz)							
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	3490.02	3499.98	3510	(dBm) (dB)
Channel							
Frequency (MHz)							
70	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	3485.01	3499.98	3514.98	(dBm) (dB)
Channel							
Frequency (MHz)							
60	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	3475.02	3499.98	3505	(dBm) (dB)
Channel							
Frequency (MHz)							
50	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	3470.01	3499.98	3520.98	(dBm) (dB)
Channel							
Frequency (MHz)							
40	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm) MPR
Frequency (MHz)							
40	QPSK	1	1	3465	3499.98	3534.99	(dBm) (dB)
Channel							
Frequency (MHz)							
30	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm) MPR
Frequency (MHz)							
30	QPSK	1	1	3460.02	3499.98	3540	(dBm) (dB)
Channel							
Frequency (MHz)							
20	QPSK	1	1	630000	633332	637000	Tune-up limit (dBm) MPR
Frequency (MHz)							
20	QPSK	1	1	3457.5	3499.98	3542.49	(dBm) (dB)
Channel							
Frequency (MHz)							
15	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm) MPR
Frequency (MHz)							
10	QPSK	1	1	3455.01	3499.98	3544.98	(dBm) (dB)

Par27Q n77_Ant 7_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
100	PQ2 BPSK	1	1	24.23	633332		
100	PQ2 BPSK	1	137	23.83			26.0
100	PQ2 BPSK	1	271	24.35			
100	PQ2 BPSK	135	0	24.21			25.5
100	PQ2 BPSK	135	69	24.41			26.0
100	PQ2 BPSK	135	138	24.48			
100	PQ2 BPSK	270	0	24.30			25.5
100	QPSK	1	1	24.47			
100	QPSK	1	137	24.20			26.0
100	QPSK	1	271	24.20			
100	QPSK	135	0	24.11			
100	QPSK	135	69	24.40			26.0
100	QPSK	135	138	24.12			
100	QPSK	270	0	24.00			25.0
100	16QAM	1	1	24.10			25.0
100	64QAM	1	1	22.73			23.5
100	256QAM	1	1	20.95			21.5
Channel							
90	QPSK	1	1	633000	633332	633666	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	3495	3499.98	3504.99	(dBm) (dB)
Channel							
Frequency (MHz)							
80	QPSK	1	1	632668	633332	634000	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	3490.02	3499.98	3510	(dBm) (dB)
Channel							
Frequency (MHz)							
70	QPSK	1	1	632000	633332	634666	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	3485.01	3499.98	3514.98	(dBm) (dB)
Channel							
Frequency (MHz)							
60	QPSK	1	1	631668	633332	635000	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	3475.02	3499.98	3505	(dBm) (dB)
Channel							
Frequency (MHz)							
50	QPSK	1	1	631334	633332	635332	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	3470.01	3499.98	3520.98	(dBm) (dB)
Channel							
Frequency (MHz)							
40	QPSK	1	1	631000	633332	635666	Tune-up limit (dBm) MPR
Frequency (MHz)							
40	QPSK	1	1	3465	3499.98	3534.99	(dBm) (dB)
Channel							
Frequency (MHz)							
30	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm) MPR
Frequency (MHz)							
30	QPSK	1	1	3460.02	3499.98	3540	(dBm) (dB)
Channel							
Frequency (MHz)							
20	QPSK	1	1	630000	633332	637000	Tune-up limit (dBm) MPR
Frequency (MHz)							
20	QPSK	1	1	3457.5	3499.98	3542.49	(dBm) (dB)
Channel							
Frequency (MHz)							
15	QPSK	1	1	630334	633332	636332	Tune-up limit (dBm) MPR
Frequency (MHz)							
10	QPSK	1	1	3455.01	3499.98	3544.98	(dBm) (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	PQ2 BPSK	1	1	19.49	650000			
100	PQ2 BPSK	1	137	19.52	650000		21.0	0.0
100	PQ2 BPSK	1	271	19.46	650000			
100	PQ2 BPSK	135	0	19.48	19.47	19.42	21.0	0.0
100	PQ2 BPSK	135	69	19.49	19.53	19.32	21.0	0.0
100	PQ2 BPSK	135	138	19.44	19.55	19.46		
100	PQ2 BPSK	270	0	19.43	19.44	19.39		
100	QPSK	1	1	19.53	19.56	19.47		
100	QPSK	1	137	19.45	19.59	19.42	21.0	0.0
100	QPSK	1	271	19.42	19.56	19.38		
100	QPSK	135	0	19.40	19.52	19.43		
100	QPSK	135	69	19.44	19.54	19.40	21.0	0.0
100	QPSK	135	138	19.42	19.44	19.40		
100	QPSK	270	0	19.48	19.40	19.35	21.0	0.0
100	16QAM	1	1	19.43	19.51	19.43	21.0	0.0
100	64QAM	1	1	18.99	19.52	19.00	21.0	0.5
100	256QAM	1	1	18.82	19.50	18.80	18.5	0.5
Channel								
90	QPSK	1	1	649968	650000	650332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3543.02	3540	3534.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3540.01	3540	3539.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	648998	650000	650332	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3538	3540	3545	(dBm)	(dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	648500	650000	650500	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.52	19.51	19.34	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	650666	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3540	3540	3549.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.51	19.57	19.36	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647868	650000	650332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3535.02	3540	3548.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	650666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3532.01	3540	3549.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	647000	650000	650000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.48	19.45	19.38	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	646700	650000	650000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.43	19.47	19.33	21.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1, 1 MHz	Power Middle Ch. 1, 1 MHz	Power High Ch. 1, 1 MHz	Turn-up time (dBm)	MPR (dB)
Channel				1790	3840	3900		
100	Pi2 BPSK	1	1	21.41	21.41	21.43		
100	Pi2 BPSK	1	137	21.18	21.29	21.28	23.0	0.0
100	Pi2 BPSK	136	1	21.31	21.39	21.42	21.31	
100	Pi2 BPSK	135	69	20.87	20.97	20.72	20.70	22.5
100	Pi2 BPSK	135	136	21.11	21.33	21.34	21.21	23.0
100	Pi2 BPSK	135	136	20.79	20.83	20.70	22.5	0.5
100	Pi2 BPSK	270	0	20.58	20.72	20.71		
100	QPSK	1	1	21.41	21.54	21.52		
100	QPSK	1	137	21.36	21.36	21.43	21.31	23.0
100	QPSK	1	271	21.14	21.23	21.11		
100	QPSK	135	0	20.35	20.39	20.36		
100	QPSK	135	69	20.44	20.48	20.37		23.0
100	QPSK	135	136	20.44	20.45	20.36		
100	QPSK	270	0	20.28	20.43	20.39	22.0	1.0
100	HQAM	1	1	20.37	20.49	20.37	22.5	1.0
100	HQAM	1	137	20.59	20.62	20.58	22.8	2.5
100	256QAM	1	1	16.88	16.90	16.75	18.5	1.5
Channel				646968	656000	662352		
90	QPSK	1	1	21.11	21.35	21.41	Turn-up time (dBm)	MPR (dB)
Channel				649334	656000	665988		
80	QPSK	1	1	21.11	21.35	21.41	Turn-up time (dBm)	MPR (dB)
Channel				3745.01	3840	3938.98		
80	QPSK	1	1	21.09	21.34	21.38	23.0	0.0
Channel				3745.01	3840	3945		
70	QPSK	1	1	21.16	21.29	21.39	23.0	0.0
Channel				3745.01	3840	3945.98		
60	QPSK	1	1	21.08	21.36	21.40	23.0	0.0
Channel				648234	656000	665988		
60	QPSK	1	1	21.12	21.36	21.36	23.0	0.0
Channel				648000	656000	664000		
40	QPSK	1	1	21.09	21.29	21.36	23.0	0.0
Channel				647668	656000	664352		
30	QPSK	1	1	21.10	21.32	21.34	23.0	0.0
Channel				647334	656000	664988		
20	QPSK	1	1	21.01	21.30	21.34	23.0	0.0
Channel				3707.52	3840	3972.48		
15	QPSK	1	1	21.14	21.33	21.34	23.0	0.0
Channel				647000	656000	665000		
10	QPSK	1	1	21.11	21.34	21.34	23.0	0.0
10	QPSK	1	1	21.11	21.34	21.34	23.0	0.0

Par27Q n77_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3499.98			
100	PV2 BPSK	1	1	18.84				
100	PV2 BPSK	1	137	18.87			20.5	0.0
100	PV2 BPSK	135	0	18.90			20.5	0.0
100	PV2 BPSK	135	69	18.93			20.5	0.0
100	PV2 BPSK	135	138	18.90			20.5	0.0
100	PV2 BPSK	270	0	18.95			20.5	0.0
100	QPSK	1	1	18.85				
100	QPSK	1	137	18.83			20.5	0.0
100	QPSK	1	271	18.83				
100	QPSK	135	0	18.87			20.5	0.0
100	QPSK	135	69	18.91			20.5	0.0
100	QPSK	135	138	18.89			20.5	0.0
100	QPSK	270	0	18.90			20.5	0.0
100	16QAM	1	1	18.94			20.5	0.0
100	16QAM	1	1	18.48			20.5	0.0
100	256QAM	1	1	18.38			20.8	2.5
Channel								
	Frequency (MHz)			633000	633332	633668	Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.85	18.83	18.82	20.5	0.0
Channel								
	Frequency (MHz)			3495.02	3499.98	3505.00	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.85	18.89	18.81	20.5	0.0
Channel								
	Frequency (MHz)			3494.01	3499.98	3504.98	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.86	18.87	18.77	20.5	0.0
Channel								
	Frequency (MHz)			3490	3499.98	3500	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.86	18.87	18.78	20.5	0.0
60	QPSK	1	1	18.68	18.87	18.78	20.5	0.0
Channel								
	Frequency (MHz)			3491.53	353332	353532	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.91	18.83	18.86	20.5	0.0
Channel								
	Frequency (MHz)			3490.02	3499.98	3500	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.94	18.83	18.85	20.5	0.0
Channel								
	Frequency (MHz)			3490.02	353332	353600	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.83	18.78	18.87	20.5	0.0
Channel								
	Frequency (MHz)			3495.02	3499.98	3500	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.88	18.88	18.79	20.5	0.0
Channel								
	Frequency (MHz)			3497.5	3499.98	3502.49	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.86	18.81	18.88	20.5	0.0
Channel								
	Frequency (MHz)			3495.01	3499.98	3504.98	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.86	18.85	18.80	20.5	0.0

Par27Q n77_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				63333.3	63333.3	63333.3		
100	P2-BPSK	1	1	20.9	20.9	20.9	22.5	0.0
100	P2-BPSK	1	137	20.93	20.93	20.93	22.5	0.0
100	P2-BPSK	135	0	20.35	20.35	20.35	22.0	0.5
100	P2-BPSK	135	69	20.86	20.86	20.86	22.5	0.0
100	P2-BPSK	135	136	20.36	20.36	20.36	22.0	0.5
100	P2-BPSK	270	0	20.39	20.39	20.39	22.0	0.5
100	QPSK	1	1	20.92	20.92	20.92	22.5	0.0
100	QPSK	1	137	20.92	20.92	20.92	22.5	0.0
100	QPSK	1	271	20.95	20.95	20.95	22.5	0.0
100	QPSK	135	0	18.78	18.78	18.78	22.5	0.0
100	QPSK	135	69	20.82	20.82	20.82	22.5	0.0
100	QPSK	135	136	18.80	18.80	18.80	21.5	1.0
100	QPSK	270	0	18.76	18.76	18.76	21.5	1.0
100	16QAM	1	1	18.89	18.89	18.89	21.5	1.0
100	16QAM	1	137	18.46	18.46	18.46	20.5	2.5
100	256QAM	1	1	16.38	16.38	16.38	18.0	4.5
Channel								
Frequency (MHz)				633000	633332	633668	Turn-up limit	MPR
60	QPSK	1	1	20.91	20.88	20.96	22.5	0.0
Channel								
Frequency (MHz)				633668	633332	633000	Turn-up limit	MPR
80	QPSK	1	1	3460.02	3469.98	3510	Turn-up limit	MPR
Channel								
Frequency (MHz)				3460.02	3469.98	3514.08	Turn-up limit	MPR
70	QPSK	1	1	20.86	20.83	20.89	22.5	0.0
Channel								
Frequency (MHz)				3460.00	3469.98	3519.99	Turn-up limit	MPR
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0
Channel								
Frequency (MHz)				3469.98	3469.98	3500.00	Turn-up limit	MPR
50	QPSK	1	1	20.89	20.89	20.93	22.5	0.0
Channel								
Frequency (MHz)				3461.534	3463.532	3465.532	Turn-up limit	MPR
40	QPSK	1	1	20.89	20.88	20.87	22.5	0.0
Channel								
Frequency (MHz)				3461.53	3469.98	3534.49	Turn-up limit	MPR
30	QPSK	1	1	20.93	20.92	20.93	22.5	0.0
Channel								
Frequency (MHz)				3461.000	3463.532	3466.068	Turn-up limit	MPR
30	QPSK	1	1	3460	3469.98	3534.49	Turn-up limit	MPR
Channel								
Frequency (MHz)				3469.98	3463.532	3460.000	Turn-up limit	MPR
20	QPSK	1	1	20.96	20.94	20.90	22.5	0.0
Channel								
Frequency (MHz)				3467.5	3469.98	3542.49	Turn-up limit	MPR
15	QPSK	1	1	20.91	20.87	20.89	22.5	0.0
Channel								
Frequency (MHz)				3462.00	3463.532	3465.062	Turn-up limit	MPR
10	QPSK	1	1	3465.0	3469.98	3544.48	22.5	0.0
Channel								
Frequency (MHz)				3465.0	3469.98	3544.48	Turn-up limit	MPR
10	QPSK	1	1	20.94	20.89	20.97	22.5	0.0



Par270 n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1	21.54	21.77	21.71			
100	PQ2 BPSK	1	137	21.59	21.65	21.64	23.0		0.0
100	PQ2 BPSK	1	271	21.60	21.75	21.66			
100	PQ2 BPSK	135	0	21.64	21.70	21.63	23.0		0.0
100	PQ2 BPSK	135	69	21.53	21.65	21.67	23.0		0.0
100	PQ2 BPSK	135	138	21.62	21.65	21.72			
100	PQ2 BPSK	270	0	21.52	21.74	21.67	23.0		0.0
Channel									
Frequency (MHz)									
100	QPSK	1	1	21.56	21.78	21.74			
100	QPSK	1	137	21.58	21.65	21.70	23.0		0.0
100	QPSK	1	271	21.58	21.72	21.61			
100	QPSK	135	0	21.60	21.65	21.69			
100	QPSK	135	69	21.63	21.75	21.73	23.0		0.0
100	QPSK	135	138	21.53	21.70	21.60			
100	QPSK	270	0	21.64	21.67	21.66	23.0		0.0
100	16QAM	1	1	21.58	21.74	21.65	23.0		0.0
100	64QAM	1	1	21.16	21.21	21.07	22.5		0.5
100	256QAM	1	1	19.14	19.16	19.10	20.5		2.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.57	21.67	21.62	23.0		0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.55	21.66	21.68	23.0		0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.53	21.63	21.65	23.0		0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.55	21.68	21.65	23.0		0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.65	21.64	21.72	23.0		0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.51	21.66	21.59	23.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.56	21.74	21.68	23.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.58	21.63	21.68	23.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.55	21.77	21.64	23.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.57	21.69	21.68	23.0		0.0

Par270 n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB 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	PQ2 BPSK	1	1	23.61	23.70	23.68			
100	PQ2 BPSK	1	137	23.58	23.62	23.65	25.0	0.0	
100	PQ2 BPSK	1	271	23.53	23.61	23.59			
100	PQ2 BPSK	135	0	22.98	23.02	22.99	24.5	0.5	
100	PQ2 BPSK	135	69	23.40	23.52	23.41	25.0	0.0	
100	PQ2 BPSK	135	138	22.88	23.01	22.98	24.5	0.5	
100	PQ2 BPSK	270	0	22.95	23.03	22.97	24.5	0.5	
Channel									
Frequency (MHz)									
100	QPSK	1	1	23.60	23.71	23.61			
100	QPSK	1	137	23.56	23.67	23.54	25.0	0.0	
100	QPSK	1	271	23.37	23.42	23.41			
100	QPSK	135	0	22.42	22.48	22.39			
100	QPSK	135	69	22.40	22.51	22.46	25.0	0.0	
100	QPSK	135	138	22.47	22.57	22.50			
100	QPSK	270	0	22.44	22.52	22.40	24.0	1.0	
100	16QAM	1	1	22.52	22.65	22.58	24.0	1.0	
100	64QAM	1	1	21.16	21.21	21.07	22.5	2.5	
100	256QAM	1	1	19.11	19.16	19.14	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.51	23.69	23.59	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.55	23.62	23.55	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.54	23.69	23.62	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.55	23.62	23.64	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.51	23.64	23.62	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.51	23.64	23.61	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.49	23.69	23.59	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.45	23.60	23.64	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.54	23.66	23.54	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.49	23.64	23.61	25.0	0.0	

Par27Q n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1		3469.68				
100	PQ2 BPSK	1	137		3469.68		23.0	0.0	
100	PQ2 BPSK	1	271		3469.68				
100	PQ2 BPSK	135	0		3469.68		23.0	0.0	
100	PQ2 BPSK	135	69		3469.68		23.0	0.0	
100	PQ2 BPSK	135	138		3469.68		23.0	0.0	
100	PQ2 BPSK	270	0		3469.68				
100	QPSK	1	1		3469.68				
100	QPSK	1	137		3469.68		23.0	0.0	
100	QPSK	1	271		3469.68				
100	QPSK	135	0		3469.68				
100	QPSK	135	69		3469.68		23.0	0.0	
100	QPSK	135	138		3469.68				
100	QPSK	270	0		3469.68		23.0	0.0	
100	16QAM	1	1		3469.68		23.0	0.0	
100	64QAM	1	1		3469.68		22.5	0.5	
100	256QAM	1	1		3469.68		20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3469.68	3469.68	3469.68	Tune-up limit (dBm)	MPR (dB)	

Par27Q n77_Ant 10_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				633332	633332		
Frequency (MHz)				3499.98			
100	PQ2 BPSK	1	1	23.80			
100	PQ2 BPSK	1	137	23.67		25.0	0.0
100	PQ2 BPSK	1	271	23.73			
100	PQ2 BPSK	135	0	23.14		24.5	0.5
100	PQ2 BPSK	135	69	23.63		25.0	0.0
100	PQ2 BPSK	135	138	23.10		24.5	0.5
100	PQ2 BPSK	270	0	23.06			
100	QPSK	1	1	23.81			
100	QPSK	1	137	23.31		25.0	0.0
100	QPSK	1	271	23.38			
100	QPSK	135	0	22.51			
100	QPSK	135	69	22.22		25.0	0.0
100	QPSK	135	138	22.19			
100	QPSK	270	0	22.26		24.0	1.0
100	16QAM	1	1	22.83		24.0	1.0
100	64QAM	1	1	21.21		22.5	2.5
100	256QAM	1	1	19.17		20.5	4.5
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	
90	QPSK	1	1	23.80	23.80	23.73	25.0 0.0
Channel				632666	633332	634000	
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	23.79	23.71	23.74	25.0 0.0
Channel				633334	633332	633332	
Frequency (MHz)				3495.01	3499.98	3514.98	
70	QPSK	1	1	23.74	23.76	23.71	25.0 0.0
Channel				632000	633332	634666	
Frequency (MHz)				3485	3499.98	3519.99	
60	QPSK	1	1	23.80	23.80	23.75	25.0 0.0
Channel				631666	633332	635000	
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	23.74	23.80	23.73	25.0 0.0
Channel				631334	633332	635332	
Frequency (MHz)				3470.01	3499.98	3529.98	
40	QPSK	1	1	23.79	23.79	23.76	25.0 0.0
Channel				631000	633332	635666	
Frequency (MHz)				3465	3499.98	3534.99	
30	QPSK	1	1	23.73	23.76	23.79	25.0 0.0
Channel				630666	633332	636000	
Frequency (MHz)				3460.02	3499.98	3540	
20	QPSK	1	1	23.75	23.75	23.74	25.0 0.0
Channel				630000	633332	636666	
Frequency (MHz)				3455	3499.98	3545.99	
15	QPSK	1	1	23.77	23.72	23.77	25.0 0.0
Channel				630334	633332	636332	
Frequency (MHz)				3455.01	3499.98	3544.98	
10	QPSK	1	1	23.75	23.72	23.72	25.0 0.0

Par27Q n78_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				650000	650000		
Frequency (MHz)				3750			
100	PQ2 BPSK	1	1	23.20			
100	PQ2 BPSK	1	137	23.21		24.0	0.0
100	PQ2 BPSK	1	271	23.20			
100	PQ2 BPSK	135	0	23.11		24.0	0.0
100	PQ2 BPSK	135	69	23.14		24.0	0.0
100	PQ2 BPSK	135	138	23.08		24.0	0.0
100	PQ2 BPSK	270	0	23.03			
100	QPSK	1	1	23.22			
100	QPSK	1	137	23.06		24.0	0.0
100	QPSK	1	271	23.12			
100	QPSK	135	0	23.06			
100	QPSK	135	69	23.11		24.0	0.0
100	QPSK	135	138	23.04			
100	QPSK	270	0	23.06		24.0	0.0
100	16QAM	1	1	23.06		24.0	0.0
100	64QAM	1	1	23.04		24.0	0.0
100	256QAM	1	1	22.97		24.0	0.0
Channel				649666	650000	650332	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98	
90	QPSK	1	1	23.04	23.04	23.10	24.0 0.0
Channel				649334	650000	650666	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99	
80	QPSK	1	1	22.97	22.95	23.01	24.0 0.0
Channel				648900	650000	651000	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3735	3750	3765	
70	QPSK	1	1	23.01	22.98	23.01	24.0 0.0
Channel				648666	650000	651332	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3730.02	3750	3764.98	
60	QPSK	1	1	23.00	22.94	23.02	24.0 0.0
Channel				648334	650000	651666	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99	
50	QPSK	1	1	23.02	23.01	23.01	24.0 0.0
Channel				648000	650000	652000	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3720	3750	3780	
40	QPSK	1	1	22.99	22.93	23.07	24.0 0.0
Channel				647666	650000	652332	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	QPSK	1	1	23.01	22.99	23.05	24.0 0.0
Channel				647334	650000	652666	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3710.01	3750	3789.99	
20	QPSK	1	1	23.00	23.01	23.02	24.0 0.0
Channel				647168	650000	652832	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3707.52	3750	3792.48	
15	QPSK	1	1	22.98	23.02	23.04	24.0 0.0
Channel				647000	650000	653000	Time-up limit (dBm) MPR (dB)
Frequency (MHz)				3705	3750	3795	
10	QPSK	1	1	23.06	22.99	23.03	24.0 0.0

Par27Q n78_Ant 4_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel					3750		
Frequency (MHz)							
100	PQ2 BPSK	1	1	23.49			
100	PQ2 BPSK	1	137	25.85		27.0	0.0
100	PQ2 BPSK	1	271	25.85			
100	PQ2 BPSK	135	0	25.80		27.0	0.0
100	PQ2 BPSK	135	69	25.85		27.0	0.0
100	PQ2 BPSK	135	138	25.83		27.0	0.0
100	PQ2 BPSK	270	0	25.83			
100	QPSK	1	1	25.91			
100	QPSK	1	137	25.81		27.0	0.0
100	QPSK	1	271	25.78			
100	QPSK	135	0	25.85			
100	QPSK	135	69	25.86		27.0	0.0
100	QPSK	135	138	25.81			
100	QPSK	270	0	25.83		27.0	0.0
100	16QAM	1	1	25.88		27.0	0.0
100	64QAM	1	1	25.03		26.0	1.0
100	256QAM	1	1	23.15		24.0	3.0
Channel				649666	650000	650332	Time-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	MPR (dB)
90	QPSK	1	1	25.80	25.88	25.88	27.0 0.0
Channel				649334	650000	650666	Time-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	MPR (dB)
80	QPSK	1	1	25.74	25.75	25.84	27.0 0.0
Channel				648900	650000	651000	Time-up limit (dBm)
Frequency (MHz)				3735	3750	3765	MPR (dB)
70	QPSK	1	1	25.71	25.82	25.84	27.0 0.0
Channel				648666	650000	651332	Time-up limit (dBm)
Frequency (MHz)				3730.02	3750	3774.99	MPR (dB)
60	QPSK	1	1	25.71	25.77	25.86	27.0 0.0
Channel				648334	650000	651666	Time-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	MPR (dB)
50	QPSK	1	1	25.74	25.78	25.86	27.0 0.0
Channel				648000	650000	652000	Time-up limit (dBm)
Frequency (MHz)				3720	3750	3780	MPR (dB)
40	QPSK	1	1	25.69	25.81	25.89	27.0 0.0
Channel				647666	650000	652332	Time-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	MPR (dB)
30	QPSK	1	1	25.77	25.75	25.84	27.0 0.0
Channel				647334	650000	652666	Time-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	MPR (dB)
20	QPSK	1	1	25.74	25.82	25.86	27.0 0.0
Channel				647168	650000	652832	Time-up limit (dBm)
Frequency (MHz)				3707.53	3750	3792.48	MPR (dB)
15	QPSK	1	1	25.76	25.79	25.77	27.0 0.0
Channel				647000	650000	653000	Time-up limit (dBm)
Frequency (MHz)				3705	3750	3795	MPR (dB)
10	QPSK	1	1	25.71	25.82	25.78	27.0 0.0



Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332		633332			
Frequency (MHz)				3499.98					
100	PQ2 BPSK	1	1		23.05		24.0	0.0	
100	PQ2 BPSK	1	137		23.01				
100	PQ2 BPSK	1	271		23.01				
100	PQ2 BPSK	135	0		22.98				
100	PQ2 BPSK	135	69		23.03		24.0	0.0	
100	PQ2 BPSK	135	138		23.02		24.0	0.0	
100	PQ2 BPSK	270	0		22.95		24.0	0.0	
100	QPSK	1	1		23.06		24.0	0.0	
100	QPSK	1	137		23.03				
100	QPSK	1	271		22.94				
100	QPSK	135	0		23.02				
100	QPSK	135	69		23.00		24.0	0.0	
100	QPSK	135	138		23.03		24.0	0.0	
100	QPSK	270	0		23.01		24.0	0.0	
100	16QAM	1	1		22.99		24.0	0.0	
100	64QAM	1	1		22.96		24.0	0.0	
100	256QAM	1	1		22.92		24.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	24.0		
90	QPSK	1	1	23.03	23.01	22.95	24.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510	24.0		
80	QPSK	1	1	22.96	22.95	23.03	24.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.01	3499.98	3514.98	24.0		
70	QPSK	1	1	22.94	22.98	22.97	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3499.98	3518.99	24.0		
60	QPSK	1	1	23.02	23.02	22.95	24.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3479.02	3499.98	3529	24.0		
50	QPSK	1	1	22.98	22.94	22.94	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	24.0		
40	QPSK	1	1	22.99	23.02	22.98	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	24.0		
30	QPSK	1	1	23.02	22.97	22.94	24.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	24.0		
20	QPSK	1	1	23.00	22.95	23.04	24.0	0.0	
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.69	24.0		
15	QPSK	1	1	22.95	22.97	23.03	24.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98	24.0		
10	QPSK	1	1	22.91	23.02	22.95	24.0	0.0	

Part27Q n78_Ant 4 HPUE										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)		
Channel				633332		633332				
Frequency (MHz)				23.00						
100	PQ2 BPSK	1	1		25.89		27.0	0.0		
100	PQ2 BPSK	1	137		25.89					
100	PQ2 BPSK	1	271		25.89					
100	PQ2 BPSK	135	0		25.89					
100	PQ2 BPSK	135	69		25.94		27.0	0.0		
100	PQ2 BPSK	135	138		25.93					
100	PQ2 BPSK	270	0		25.90					
100	QPSK	1	1		25.90					
100	QPSK	1	137		25.96		27.0	0.0		
100	QPSK	1	271		25.93					
100	QPSK	135	0		25.94					
100	QPSK	135	69		25.98					
100	QPSK	135	138		25.93		27.0	0.0		
100	QPSK	270	0		25.97					
100	16QAM	1	1		25.97					
100	64QAM	1	1		25.98					
100	256QAM	1	1		25.07					
Channel				633000	633332	633666	Tune-up limit	MPR		
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(dB)		
90	QPSK	1	1	25.88	25.84	25.85	27.0	0.0		
Channel				632668	633332	634000	Tune-up limit	MPR		
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)		
80	QPSK	1	1	25.88	25.84	25.87	27.0	0.0		
Channel				633334	633332	633332	Tune-up limit	MPR		
Frequency (MHz)				3495.01	3499.98	3514.98	(dbm)	(dB)		
70	QPSK	1	1	25.91	25.87	25.89	27.0	0.0		
Channel				632000	633332	634666	Tune-up limit	MPR		
Frequency (MHz)				3485	3499.98	3518.99	(dbm)	(dB)		
60	QPSK	1	1	25.95	25.84	25.87	27.0	0.0		
Channel				631668	633332	635000	Tune-up limit	MPR		
Frequency (MHz)				3479.02	3499.98	3529	(dbm)	(dB)		
50	QPSK	1	1	25.94	25.87	25.95	27.0	0.0		
Channel				631334	633332	635332	Tune-up limit	MPR		
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)		
40	QPSK	1	1	25.95	25.87	25.85	27.0	0.0		
Channel				631000	633332	635666	Tune-up limit	MPR		
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)		
30	QPSK	1	1	25.88	25.84	25.90	27.0	0.0		
Channel				630668	633332	636000	Tune-up limit	MPR		
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(dB)		
20	QPSK	1	1	25.92	25.86	25.87	27.0	0.0		
Channel				630300	633332	636166	Tune-up limit	MPR		
Frequency (MHz)				3457.5	3499.98	3542.69	(dbm)	(dB)		
15	QPSK	1	1	25.90	25.85	25.85	27.0	0.0		
Channel				630334	633332	636332	Tune-up limit	MPR		
Frequency (MHz)				3453.01	3499.98	3544.98	(dbm)	(dB)		
10	QPSK	1	1	25.97	25.88	25.94	27.0	0.0		



Par270 n78_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3750				
100	PI2 BPSK	1	1	23.00				
100	PI2 BPSK	1	137	22.92			24.0	0.0
100	PI2 BPSK	1	271	22.91				
100	PI2 BPSK	135	0	22.93			24.0	0.0
100	PI2 BPSK	135	69	22.96			24.0	0.0
100	PI2 BPSK	135	138	22.87			24.0	0.0
100	PI2 BPSK	270	0	22.91				
100	QPSK	1	1	23.05				
100	QPSK	1	137	23.04			24.0	0.0
100	QPSK	1	271	23.03				
100	QPSK	135	0	23.02				
100	QPSK	135	69	23.04			24.0	0.0
100	QPSK	135	138	22.96				
100	QPSK	270	0	22.95			24.0	0.0
100	16QAM	1	1	22.31			24.0	0.0
100	64QAM	1	1	22.36			23.5	0.0
100	256QAM	1	1	20.58			21.5	0.0
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				22.85	22.93	22.98	24.0	0.0
Channel				649334	650000	650666	Tune-up limit	MPR
Frequency (MHz)				22.81	22.90	22.96	24.0	0.0
Channel				649000	650000	651332	Tune-up limit	MPR
Frequency (MHz)				22.77	22.86	22.93	24.0	0.0
Channel				648666	650000	651966	Tune-up limit	MPR
Frequency (MHz)				22.73	22.82	22.88	24.0	0.0
Channel				648332	650000	652532	Tune-up limit	MPR
Frequency (MHz)				22.69	22.80	22.84	24.0	0.0
Channel				648000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				22.65	22.83	22.93	24.0	0.0
Channel				647668	650000	653532	Tune-up limit	MPR
Frequency (MHz)				22.61	22.81	22.92	24.0	0.0
Channel				647334	650000	653966	Tune-up limit	MPR
Frequency (MHz)				22.57	22.76	22.89	24.0	0.0
Channel				647000	650000	654500	Tune-up limit	MPR
Frequency (MHz)				22.53	22.78	22.88	24.0	0.0
Channel				646668	650000	655000	Tune-up limit	MPR
Frequency (MHz)				22.49	22.88	22.88	24.0	0.0
Channel				646334	650000	655500	Tune-up limit	MPR
Frequency (MHz)				22.45	22.88	22.88	24.0	0.0

Par270 n78_Ant 7_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37500				
100	PI2 BPSK	1	1	24.45				
100	PI2 BPSK	1	137	24.42			26.0	0.0
100	PI2 BPSK	1	271	24.91				
100	PI2 BPSK	135	0	24.50			25.5	0.5
100	PI2 BPSK	135	69	24.77			26.0	0.0
100	PI2 BPSK	135	138	24.58			25.5	0.5
100	PI2 BPSK	270	0	24.51			26.0	0.0
100	QPSK	1	1	25.00				
100	QPSK	1	137	24.53			26.0	0.0
100	QPSK	1	271	24.89				
100	QPSK	135	0	24.06				
100	QPSK	135	69	24.08			26.0	0.0
100	QPSK	135	138	24.08				
100	QPSK	270	0	23.93			25.0	1.0
100	16QAM	1	1	24.23			25.0	2.0
100	64QAM	1	1	22.61			23.5	2.5
100	256QAM	1	1	20.89			21.5	4.5
Channel				646968	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				37500	37500	37500	26.0	0.0
90	QPSK	1	1	24.53	649960	649992	26.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				374601	37500	375699	26.0	0.0
80	QPSK	1	1	24.95	649960	649999	26.0	0.0
Channel				649334	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745	37500	3765	26.0	0.0
70	QPSK	1	1	24.96	649403	649498	26.0	0.0
Channel				649334	650000	651966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	37500	3769.98	26.0	0.0
60	QPSK	1	1	24.95	649403	649497	26.0	0.0
Channel				648334	650000	651966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.013	37500	3764.98	26.0	0.0
50	QPSK	1	1	24.96	649403	649498	26.0	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	37500	3740	26.0	0.0
40	QPSK	1	1	24.98	649403	649495	26.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3713.02	37500	3763.98	26.0	0.0
30	QPSK	1	1	24.98	649403	649494	26.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	37500	3769.99	26.0	0.0
20	QPSK	1	1	24.98	649403	649495	26.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.50	37500	3762.48	26.0	0.0
15	QPSK	1	1	24.99	649403	649498	26.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	37500	3725	26.0	0.0
10	QPSK	1	1	24.93	649403	649494	26.0	0.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
				633332		633332	
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	23.10			
100	PI2 BPSK	1	137	23.12			24.0
100	PI2 BPSK	1	271	23.10			
100	PI2 BPSK	135	0	23.17			24.0
100	PI2 BPSK	135	69	23.13			24.0
100	PI2 BPSK	135	138	23.10			24.0
100	PI2 BPSK	270	0	23.10			
100	QPSK	1	1	23.18			
100	QPSK	1	137	23.12			24.0
100	QPSK	1	271	23.10			
100	QPSK	135	0	23.09			
100	QPSK	135	69	23.12			24.0
100	QPSK	135	138	22.50			
100	QPSK	270	0	23.14			24.0
100	16QAM	1	1	23.12			24.0
100	64QAM	1	1	22.98			23.5
100	256QAM	1	1	21.11			21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	MPR (dB)
90	QPSK	1	1	23.13	23.13	23.13	24.0
Channel				632666	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	MPR (dB)
80	QPSK	1	1	23.12	23.08	23.09	24.0
Channel				633334	633332	633332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	MPR (dB)
70	QPSK	1	1	23.15	23.13	23.12	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3484	3499.98	3518.99	MPR (dB)
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel				631666	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3523	MPR (dB)
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	MPR (dB)
40	QPSK	1	1	23.10	23.09	23.04	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	MPR (dB)
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel				630666	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	MPR (dB)
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel				630000	633332	636366	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3499.98	3542.49	MPR (dB)
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3453.01	3499.98	3544.98	MPR (dB)
10	QPSK	1	1	23.10	23.07	23.05	24.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
				633332		633332	
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	24.75			
100	PI2 BPSK	1	137	24.77			26.0
100	PI2 BPSK	1	271	24.76			
100	PI2 BPSK	135	0	24.77			25.5
100	PI2 BPSK	135	69	24.81			26.0
100	PI2 BPSK	135	138	24.79			25.5
100	PI2 BPSK	270	0	24.73			
100	QPSK	1	1	24.69			
100	QPSK	1	137	24.51			26.0
100	QPSK	1	271	24.10			
100	QPSK	135	0	24.44			
100	QPSK	135	69	24.65			26.0
100	QPSK	135	138	24.22			
100	QPSK	270	0	24.21			25.0
100	16QAM	1	1	24.14			25.0
100	64QAM	1	1	23.27			23.5
100	256QAM	1	1	21.14			21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	MPR (dB)
90	QPSK	1	1	24.87	24.88	24.88	26.0
Channel				632666	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	MPR (dB)
80	QPSK	1	1	24.86	24.86	24.83	26.0
Channel				633334	633332	633332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	MPR (dB)
70	QPSK	1	1	24.87	24.82	24.84	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3484	3499.98	3518.99	MPR (dB)
60	QPSK	1	1	24.84	24.87	24.87	26.0
Channel				631666	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3523	MPR (dB)
50	QPSK	1	1	24.85	24.87	24.85	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	MPR (dB)
40	QPSK	1	1	24.83	24.84	24.89	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	MPR (dB)
30	QPSK	1	1	24.85	24.86	24.88	26.0
Channel				630666	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	MPR (dB)
20	QPSK	1	1	24.84	24.84	24.87	26.0
Channel				630000	633332	636366	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3499.98	3542.49	MPR (dB)
15	QPSK	1	1	24.83	24.83	24.86	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3453.01	3499.98	3544.98	MPR (dB)
10	QPSK	1	1	24.84	24.83	24.85	26.0



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				3750			
Frequency (MHz)				19.57			
100	PI2 BPSK	1	1	19.57			
100	PI2 BPSK	1	137	19.57		21.0	0.0
100	PI2 BPSK	1	271	19.54			
100	PI2 BPSK	135	0	19.56		21.0	0.0
100	PI2 BPSK	135	69	19.55		21.0	0.0
100	PI2 BPSK	135	138	19.64		21.0	0.0
100	PI2 BPSK	270	0	19.64			
100	QPSK	1	1	19.65			
100	QPSK	1	137	19.57		21.0	0.0
100	QPSK	1	271	19.54			
100	QPSK	135	0	19.60			
100	QPSK	135	69	19.65		21.0	0.0
100	QPSK	135	138	19.61			
100	QPSK	270	0	19.55		21.0	0.0
100	16QAM	1	1	19.62		21.0	0.0
100	64QAM	1	1	18.74		20.5	0.5
100	256QAM	1	1	18.75		18.5	2.5
Channel				648968	650000	650332	MFR
Frequency (MHz)				3743.02	3750	3754.98	(dB)
90	QPSK	1	1	19.62	19.60	19.48	21.0 0.0
Channel				648334	650000	650666	MFR
Frequency (MHz)				3740.01	3750	3760.99	(dB)
80	QPSK	1	1	19.51	19.56	19.52	21.0 0.0
Channel				649500	650000	651000	MFR
Frequency (MHz)				3735	3750	3765	(dB)
70	QPSK	1	1	19.58	19.63	19.58	21.0 0.0
Channel				648968	650000	651332	MFR
Frequency (MHz)				3730.01	3750	3774.99	(dB)
60	QPSK	1	1	19.56	19.61	19.47	21.0 0.0
Channel				648334	650000	651666	MFR
Frequency (MHz)				3725.01	3750	3774.99	(dB)
50	QPSK	1	1	19.57	19.60	19.51	21.0 0.0
Channel				648000	650000	652000	MFR
Frequency (MHz)				3720	3750	3780	(dB)
40	QPSK	1	1	19.49	19.50	19.49	21.0 0.0
Channel				647606	650000	652532	MFR
Frequency (MHz)				3715.02	3760.00	3764.98	(dB)
30	QPSK	1	1	19.55	19.56	19.51	21.0 0.0
Channel				647234	650000	652866	MFR
Frequency (MHz)				3710.01	3750	3769.99	(dB)
20	QPSK	1	1	19.58	19.55	19.47	21.0 0.0
Channel				647168	650000	652932	MFR
Frequency (MHz)				3707.50	3750	3762.48	(dB)
15	QPSK	1	1	19.65	19.57	19.47	21.0 0.0
Channel				647000	650000	653000	MFR
Frequency (MHz)				3705	3750	3765	(dB)
10	QPSK	1	1	19.62	19.57	19.55	21.0 0.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (600000)	Power Modem Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				3750			
Frequency (MHz)				19.58			
100	PI2 BPSK	1	1	19.58			
100	PI2 BPSK	1	137	21.44		23.0	0.0
100	PI2 BPSK	1	271	21.53			
100	PI2 BPSK	135	0	20.70		22.5	0.5
100	PI2 BPSK	135	69	21.33		23.0	0.0
100	PI2 BPSK	135	138	20.82		22.5	0.5
100	PI2 BPSK	270	0	20.78			
100	QPSK	1	1	21.60			
100	QPSK	1	137	21.52		23.0	0.0
100	QPSK	1	271	21.54			
100	QPSK	135	0	20.17			
100	QPSK	135	69	21.28		23.0	0.0
100	QPSK	135	138	20.32			
100	QPSK	270	0	20.23		22.0	1.0
100	16QAM	1	1	20.28		22.0	1.0
100	64QAM	1	1	18.74		20.5	2.5
100	256QAM	1	1	18.75		18.5	4.5
Channel				648968	650000	650332	MFR
Frequency (MHz)				3743.02	3750	3754.98	(dB)
90	QPSK	1	1	21.63	21.50	21.48	23.0 0.0
Channel				648334	650000	650666	MFR
Frequency (MHz)				3740.01	3750	3760.99	(dB)
80	QPSK	1	1	21.54	21.49	21.52	23.0 0.0
Channel				649500	650000	651000	MFR
Frequency (MHz)				3735	3750	3765	(dB)
70	QPSK	1	1	21.51	21.49	21.47	23.0 0.0
Channel				648968	650000	651332	MFR
Frequency (MHz)				3730.01	3750	3774.99	(dB)
60	QPSK	1	1	21.59	21.51	21.49	23.0 0.0
Channel				648334	650000	651666	MFR
Frequency (MHz)				3725.01	3750	3774.99	(dB)
50	QPSK	1	1	21.52	21.46	21.47	23.0 0.0
Channel				648000	650000	652000	MFR
Frequency (MHz)				3720	3750	3780	(dB)
40	QPSK	1	1	21.51	21.51	21.47	23.0 0.0
Channel				647606	650000	652532	MFR
Frequency (MHz)				3715.02	3760.00	3764.98	(dB)
30	QPSK	1	1	21.55	21.48	21.46	23.0 0.0
Channel				647234	650000	652866	MFR
Frequency (MHz)				3710.01	3750	3769.99	(dB)
20	QPSK	1	1	21.56	21.46	21.46	23.0 0.0
Channel				647168	650000	652932	MFR
Frequency (MHz)				3707.50	3750	3762.48	(dB)
15	QPSK	1	1	21.55	21.49	21.48	23.0 0.0
Channel				647000	650000	653000	MFR
Frequency (MHz)				3705	3750	3765	(dB)
10	QPSK	1	1	21.56	21.50	21.45	23.0 0.0



Part27Q n78_Ant 8									
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				633000	633332	633666		MPR	
Frequency (MHz)				3495	3499.98	3504.99		(dB)	
100	PQ2 BPSK	1	1	18.93	18.97	18.94	20.0	0.0	
100	PQ2 BPSK	1	137	18.97	18.94	18.92	20.0	0.0	
100	PQ2 BPSK	1	271	18.94	18.92	18.89	20.0	0.0	
100	PQ2 BPSK	135	0	18.92	18.89	18.81	20.0	0.0	
100	PQ2 BPSK	135	69	18.89	18.81	18.79	20.0	0.0	
100	PQ2 BPSK	135	138	18.81	18.79	18.74	20.0	0.0	
100	PQ2 BPSK	270	0	18.79	18.74	18.69	20.0	0.0	
100	QPSK	1	1	18.96	18.89	18.85	20.0	0.0	
100	QPSK	1	137	18.87	18.85	18.81	20.0	0.0	
100	QPSK	1	271	18.89	18.85	18.81	20.0	0.0	
100	QPSK	135	0	18.94	18.90	18.86	20.0	0.0	
100	QPSK	135	69	18.95	18.90	18.85	20.0	0.0	
100	QPSK	135	138	18.90	18.85	18.80	20.0	0.0	
100	QPSK	270	0	18.81	18.79	18.74	20.0	0.0	
100	16QAM	1	1	18.90	18.90	18.90	20.0	0.0	
100	64QAM	1	1	18.29	18.29	18.29	19.5	0.5	
100	256QAM	1	1	18.31	18.31	18.31	17.5	2.5	
Channel				633000	633332	633666		MPR	
Frequency (MHz)				3495	3499.98	3504.99		(dB)	
90	QPSK	1	1	18.87	18.91	18.81	20.0	0.0	
Channel				632668	633332	634000		MPR	
Frequency (MHz)				3490.02	3499.98	3510		(dB)	
80	QPSK	1	1	18.87	18.85	18.85	20.0	0.0	
Channel				632334	633332	634332		MPR	
Frequency (MHz)				3485.01	3499.98	3514.98		(dB)	
70	QPSK	1	1	18.81	18.80	18.78	20.0	0.0	
Channel				632000	633332	634666		MPR	
Frequency (MHz)				3480	3499.98	3518.99		(dB)	
60	QPSK	1	1	18.88	18.79	18.81	20.0	0.0	
Channel				631668	633332	635000		MPR	
Frequency (MHz)				3475.02	3499.98	3525		(dB)	
50	QPSK	1	1	18.87	18.85	18.80	20.0	0.0	
Channel				631334	633332	635332		MPR	
Frequency (MHz)				3470.01	3499.98	3529.98		(dB)	
40	QPSK	1	1	18.90	18.83	18.87	20.0	0.0	
Channel				631000	633332	635666		MPR	
Frequency (MHz)				3465	3499.98	3534.99		(dB)	
30	QPSK	1	1	18.90	18.91	18.83	20.0	0.0	
Channel				630668	633332	636000		MPR	
Frequency (MHz)				3460.02	3499.98	3540		(dB)	
20	QPSK	1	1	18.83	18.80	18.81	20.0	0.0	
Channel				630300	633332	636366		MPR	
Frequency (MHz)				3457.5	3499.98	3542.99		(dB)	
15	QPSK	1	1	18.90	18.83	18.82	20.0	0.0	
Channel				630004	633332	636666		MPR	
Frequency (MHz)				3453.01	3499.98	3544.98		(dB)	
10	QPSK	1	1	18.86	18.76	18.83	20.0	0.0	

Part27Q n78_Ant 8_HPUE									
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				633000	633332	633666		MPR	
Frequency (MHz)				3495	3499.98	3504.99		(dB)	
100	PQ2 BPSK	1	1	20.87	20.86	20.82	22.0	0.0	
100	PQ2 BPSK	1	137	20.86	20.80	20.50	21.5	0.5	
100	PQ2 BPSK	1	271	20.80	20.23	20.20	22.0	0.0	
100	PQ2 BPSK	135	0	20.80	20.20	20.20	21.5	0.5	
100	PQ2 BPSK	135	69	20.80	20.28	20.28	22.0	0.0	
100	PQ2 BPSK	135	138	20.31	20.28	20.28	21.5	0.5	
100	PQ2 BPSK	270	0	20.28	20.28	20.28	21.0	1.0	
100	QPSK	1	1	20.91	20.79	20.51	21.0	1.0	
100	QPSK	1	137	20.79	20.53	20.53	21.0	1.0	
100	QPSK	1	271	20.53	20.53	20.53	21.0	1.0	
100	QPSK	135	0	18.74	18.74	18.74	19.5	2.5	
100	QPSK	135	69	20.67	20.67	20.67	19.5	2.5	
100	QPSK	135	138	18.90	18.90	18.90	17.5	4.5	
100	QPSK	270	0	18.69	18.69	18.69	17.5	4.5	
100	16QAM	1	1	18.90	18.90	18.90	21.0	1.0	
100	64QAM	1	1	18.29	18.29	18.29	19.5	0.5	
100	256QAM	1	1	18.31	18.31	18.31	17.5	4.5	
Channel				633000	633332	633666		MPR	
Frequency (MHz)				3495	3499.98	3504.99		(dB)	
90	QPSK	1	1	20.87	20.86	20.83	22.0	0.0	
Channel				632668	633332	634000		MPR	
Frequency (MHz)				3490.02	3499.98	3510		(dB)	
80	QPSK	1	1	20.80	20.84	20.80	22.0	0.0	
Channel				632334	633332	634332		MPR	
Frequency (MHz)				3485.01	3499.98	3514.98		(dB)	
70	QPSK	1	1	20.86	20.81	20.83	22.0	0.0	
Channel				632000	633332	634666		MPR	
Frequency (MHz)				3480	3499.98	3518.99		(dB)	
60	QPSK	1	1	20.87	20.84	20.88	22.0	0.0	
Channel				631668	633332	635000		MPR	
Frequency (MHz)				3475.02	3499.98	3525		(dB)	
50	QPSK	1	1	20.83	20.84	20.88	22.0	0.0	
Channel				631334	633332	635332		MPR	
Frequency (MHz)				3470.01	3499.98	3529.98		(dB)	
40	QPSK	1	1	20.92	20.77	20.89	22.0	0.0	
Channel				631000	633332	635666		MPR	
Frequency (MHz)				3465	3499.98	3534.99		(dB)	
30	QPSK	1	1	20.83	20.79	20.85	22.0	0.0	
Channel				630668	633332	636000		MPR	
Frequency (MHz)				3460.02	3499.98	3540		(dB)	
20	QPSK	1	1	20.87	20.83	20.84	22.0	0.0	
Channel				630300	633332	636366		MPR	
Frequency (MHz)				3457.5	3499.98	3542.99		(dB)	
15	QPSK	1	1	20.85	20.86	20.87	22.0	0.0	
Channel				630004	633332	636666		MPR	
Frequency (MHz)				3453.01	3499.98	3544.98		(dB)	
10	QPSK	1	1	20.75	20.75	20.84	22.0	0.0	



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq. (650000)	Power High Ch. / Freq. (650000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1		2172		
100	PI2 BPSK	1	137		2168	23.0	0.0
100	PI2 BPSK	1	271		2171		
100	PI2 BPSK	135	0		2172	23.0	0.0
100	PI2 BPSK	135	69		2174	23.0	0.0
100	PI2 BPSK	135	138		2165	23.0	0.0
100	PI2 BPSK	270	0		2169		
100	QPSK	1	1		2175		
100	QPSK	1	137		2168	23.0	0.0
100	QPSK	1	271		2173		
100	QPSK	135	0		2161		
100	QPSK	135	69		2166	23.0	0.0
100	QPSK	135	138		2164		
100	QPSK	270	0		2166	23.0	0.0
100	16QAM	1	1		2167	23.0	0.0
100	64QAM	1	1		2170	22.5	0.5
100	256QAM	1	1		1805	20.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2172	2162	21.62	23.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2160	2166	21.55	23.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2173	2164	21.65	23.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2168	2167	21.62	23.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2167	2156	21.55	23.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2164	2160	21.60	23.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2171	2161	21.66	23.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2169	2160	21.66	23.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	2168	2163	21.55	23.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	2166	2170	21.55	23.0 0.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Modem Ch. / Freq. (650000)	Power High Ch. / Freq. (650000)	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1		2362		
100	PI2 BPSK	1	137		2360	25.0	0.0
100	PI2 BPSK	1	271		2363		
100	PI2 BPSK	135	0		2364	24.5	0.5
100	PI2 BPSK	135	69		2367	25.0	0.0
100	PI2 BPSK	135	138		2360	24.5	0.5
100	PI2 BPSK	270	0		2366		
100	QPSK	1	1		2371		
100	QPSK	1	137		2369	25.0	0.0
100	QPSK	1	271		2364		
100	QPSK	135	0		2362		
100	QPSK	135	69		2365	25.0	0.0
100	QPSK	135	138		2362		
100	QPSK	270	0		2366	24.0	1.0
100	16QAM	1	1		2369	24.0	1.0
100	64QAM	1	1		2470	22.5	2.5
100	256QAM	1	1		1905	20.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2362	2360	23.60	25.0 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2360	2364	23.63	25.0 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2368	2361	23.62	25.0 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2360	2364	23.63	25.0 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2362	2364	23.65	25.0 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2360	2368	23.61	25.0 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2367	2363	23.65	25.0 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2369	2360	23.60	25.0 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	2367	2363	23.65	25.0 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	2365	2370	23.65	25.0 0.0

Part27Q n78_Ant 10								
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				633332	633332			
Frequency (MHz)				2493.98				
100	PQ2 BPSK	1	1	21.73				
100	PQ2 BPSK	1	137	21.70			23.0	0.0
100	PQ2 BPSK	1	271	21.68				
100	PQ2 BPSK	135	0	21.67			23.0	0.0
100	PQ2 BPSK	135	69	21.70			23.0	0.0
100	PQ2 BPSK	135	138	21.68			23.0	0.0
100	PQ2 BPSK	270	0	21.73				
100	QPSK	1	1	21.81				
100	QPSK	1	137	21.68			23.0	0.0
100	QPSK	1	271	21.74				
100	QPSK	135	0	21.72				
100	QPSK	135	69	21.77			23.0	0.0
100	QPSK	135	138	21.75				
100	QPSK	270	0	21.75			23.0	0.0
100	16QAM	1	1	21.69			23.0	0.0
100	64QAM	1	1	21.45			22.5	0.5
100	256QAM	1	1	19.47			20.5	2.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	21.72	21.71	21.68	23.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	21.80	21.69	21.60	23.0	0.0
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	21.69	21.68	21.67	23.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3484	3499.98	3518.98		
60	QPSK	1	1	21.80	21.68	21.69	23.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3479.02	3499.98	3520		
50	QPSK	1	1	21.67	21.62	21.58	23.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	21.76	21.60	21.60	23.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.98		
30	QPSK	1	1	21.79	21.60	21.60	23.0	0.0
Channel				3460.02	3499.98	3540		
20	QPSK	1	1	21.79	21.62	21.67	23.0	0.0
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.98		
15	QPSK	1	1	21.71	21.57	21.56	23.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	21.70	21.60	21.60	23.0	0.0

Part27Q n78_Ant 10_HPUE								
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				633332	633332			
Frequency (MHz)				2493.98				
100	PQ2 BPSK	1	1	23.79				
100	PQ2 BPSK	1	137	23.73			25.0	0.0
100	PQ2 BPSK	1	271	23.79				
100	PQ2 BPSK	135	0	23.17			24.5	0.5
100	PQ2 BPSK	135	69	23.73			25.0	0.0
100	PQ2 BPSK	135	138	23.19			24.5	0.5
100	PQ2 BPSK	270	0	23.06				
100	QPSK	1	1	23.79				
100	QPSK	1	137	23.70			25.0	0.0
100	QPSK	1	271	23.45				
100	QPSK	135	0	22.63				
100	QPSK	135	69	23.66			25.0	0.0
100	QPSK	135	138	22.96				
100	QPSK	270	0	22.98			24.0	1.0
100	16QAM	1	1	22.74			24.0	1.0
100	64QAM	1	1	21.26			22.5	2.5
100	256QAM	1	1	19.28			20.5	4.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	23.65	23.71	23.73	25.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	23.65	23.71	23.76	25.0	0.0
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	23.71	23.66	23.72	25.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3484	3499.98	3518.98		
60	QPSK	1	1	23.74	23.70	23.71	25.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3479.02	3499.98	3520		
50	QPSK	1	1	23.71	23.72	23.77	25.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	23.65	23.72	23.72	25.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.98		
30	QPSK	1	1	23.73	23.68	23.78	25.0	0.0
Channel				3460.02	3499.98	3540		
20	QPSK	1	1	23.68	23.68	23.69	25.0	0.0
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.98		
15	QPSK	1	1	23.72	23.65	23.76	25.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	23.65	23.71	23.72	25.0	0.0



Reduced Power Mode for DSI6

n2_Ant 0									
BW [MHz]	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	20.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24	20.5	0.0	
20	PI2 BPSK	1	53	19.27	19.40	19.26			
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	5	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19	20.5	0.0	
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16			
20	QPSK	1	104	19.30	19.32	19.20	20.5	0.0	
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	16QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	64QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	20.5	0.0	
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	20.5	0.0	
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	20.5	0.0	
5	QPSK	1	1	19.21	19.42	19.22	20.5	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000	21.0	0.0	
Frequency (MHz)				1900	1900	1900			
20	PI2 BPSK	1	1	19.00	19.13	19.15	21.0	0.0	
20	PI2 BPSK	1	53	19.07	19.13	19.05			
20	PI2 BPSK	1	104	19.00	19.16	19.10			
20	PI2 BPSK	50	5	19.11	19.15	19.04	21.0	0.0	
20	PI2 BPSK	50	28	19.04	19.12	19.03	21.0	0.0	
20	PI2 BPSK	50	56	19.03	19.07	19.16	21.0	0.0	
20	PI2 BPSK	100	0	19.11	19.09	19.07	21.0	0.0	
20	QPSK	1	1	19.12	19.16	19.13			
20	QPSK	1	53	19.04	19.13	19.03			
20	QPSK	1	104	19.08	19.15	19.12	21.0	0.0	
20	QPSK	50	0	19.07	19.07	19.06	21.0	0.0	
20	QPSK	50	28	19.09	19.11	19.10	21.0	0.0	
20	QPSK	50	56	19.03	19.08	19.02	21.0	0.0	
20	QPSK	100	0	19.01	19.10	19.06	21.0	0.0	
20	16QAM	1	1	19.07	19.17	19.14	21.0	0.0	
20	64QAM	1	1	19.08	19.10	19.15	21.0	0.0	
20	256QAM	1	1	19.40	19.50	19.38	19.5	1.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1900	1902.5	21.0	0.0	
15	QPSK	1	1	19.03	19.13	19.06	21.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	21.0	0.0	
10	QPSK	1	1	19.00	19.13	19.07	21.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1880	1907.5	21.0	0.0	
5	QPSK	1	1	19.13	19.18	19.08	21.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167200	167900	24.0	0.0	
Frequency (MHz)				834	846.5	859			
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.84	22.79			
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.76	22.73			
20	QPSK	1	104	22.83	22.79	22.72	24.0	0.0	
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166200	167200	167900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	846.5	861.5	24.0	0.0	
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	846.5	864	24.0	0.0	
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	846.5	866.5	24.0	0.0	
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0	



n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	838			
20	P12 BPSK	1	1	22.70	22.72	22.63			
20	P12 BPSK	1	53	22.67	22.75	22.68	24.0	0.0	
20	P12 BPSK	1	104	22.70	22.73	22.63			
20	P12 BPSK	50	0	22.60	22.71	22.52	24.0	0.0	
20	P12 BPSK	50	26	22.67	22.75	22.60	24.0	0.0	
20	P12 BPSK	50	56	22.56	22.71	22.58			
20	P12 BPSK	100	0	22.56	22.64	22.55	24.0	0.0	
20	QPSK	1	1	22.73	22.76	22.65			
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0	
20	QPSK	1	104	22.57	22.68	22.50			
20	QPSK	50	0	22.61	22.66	22.52	24.0	0.0	
20	QPSK	50	26	22.62	22.72	22.57	24.0	0.0	
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0	
20	QPSK	100	0	22.60	22.64	22.49			
20	64QAM	1	1	22.63	22.61	22.65	24.0	0.0	
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5	
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	22.63	22.72	22.49	24.0	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	19.85	19.88	19.79			
40	P12 BPSK	1	108	19.92	19.90	19.92	21.0	0.0	
40	P12 BPSK	1	214	19.96	19.88	19.92			
40	P12 BPSK	108	0	19.93	19.93	19.91	21.0	0.0	
40	P12 BPSK	108	54	19.93	19.93	19.91	21.0	0.0	
40	P12 BPSK	108	108	19.91	19.99	19.88			
40	P12 BPSK	216	0	19.98	19.87	19.84	21.0	0.0	
40	QPSK	1	1	19.97	20.00	19.94			
40	QPSK	1	108	19.95	19.92	19.87	21.0	0.0	
40	QPSK	1	214	19.94	19.91	19.93			
40	QPSK	108	0	19.95	19.87	19.88	21.0	0.0	
40	QPSK	108	54	19.93	19.91	19.90	21.0	0.0	
40	QPSK	108	108	19.87	19.90	19.85	21.0	0.0	
40	QPSK	216	0	19.83	19.93	19.92			
40	16QAM	1	1	19.87	19.96	19.90	21.0	0.0	
40	64QAM	1	1	19.86	19.86	19.81	21.0	0.0	
40	256QAM	1	1	18.62	18.65	18.76	19.5	1.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	19.87	19.88	19.92	21.0	0.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
25	QPSK	1	1	19.90	19.86	19.83	21.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	19.89	19.89	19.91	21.0	0.0	
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	19.84	19.85	19.91	21.0	0.0	
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	19.85	19.86	19.89	21.0	0.0	
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	19.85	19.89	19.82	21.0	0.0	

n7_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	20.99	20.96	20.97			
40	P12 BPSK	1	108	20.99	20.92	20.90	22.0	0.0	
40	P12 BPSK	1	214	20.90	20.95	20.97			
40	P12 BPSK	108	0	20.97	20.96	20.96	22.0	0.0	
40	P12 BPSK	108	54	20.88	20.98	20.96	22.0	0.0	
40	P12 BPSK	108	108	20.92	20.92	21.01			
40	P12 BPSK	216	0	20.90	21.02	20.98	22.0	0.0	
40	QPSK	1	1	21.00	21.07	21.03			
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0	
40	QPSK	1	214	20.97	20.97	21.01			
40	QPSK	108	0	20.95	20.98	20.99	22.0	0.0	
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0	
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0	
40	QPSK	216	0	20.91	21.02	20.92			
40	16QAM	1	1	20.91	20.94	20.91	22.0	0.0	
40	64QAM	1	1	20.87	20.93	20.90	22.0	0.0	
40	256QAM	1	1	20.36	20.46	20.43	21.0	1.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
25	QPSK	1	1	20.96	21.00	20.93	22.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0	
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0	
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0	
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0	



n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77			
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71			
15	QPSK	1	1	22.85	22.82	22.82			
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70			
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0	
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.76	22.83	22.76			
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
15	P12 BPSK	1	1	23.31	23.36	23.34	24.0	0.0			
15	P12 BPSK	1	40	23.23	23.31	23.23					
15	P12 BPSK	1	77	23.26	23.33	23.31					
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0	0.0			
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0	0.0			
15	P12 BPSK	36	43	23.11	23.24	23.17	24.0	0.0			
15	P12 BPSK	75	0	23.21	23.30	23.17					
15	QPSK	1	1	23.27	23.37	23.30					
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0			
15	QPSK	1	77	23.11	23.27	23.18					
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0			
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0			
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0			
15	QPSK	75	0	23.12	23.29	23.23	24.0	0.0			
15	16QAM	1	1	23.19	23.32	23.15					
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5			
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5			
Channel											
Frequency (MHz)											
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0			

n14_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
10	P12 BPSK	1	1		22.93		24.0	0.0			
10	P12 BPSK	1	26		22.91						
10	P12 BPSK	1	55		22.89						
10	P12 BPSK	25	0		22.92		24.0	0.0			
10	P12 BPSK	25	14		22.91		24.0	0.0			
10	P12 BPSK	25	27		22.82		24.0	0.0			
10	P12 BPSK	50	0		22.84						
10	QPSK	1	1		22.93						
10	QPSK	1	26		22.84		24.0	0.0			
10	QPSK	1	50		22.89						
10	QPSK	25	0		22.93		24.0	0.0			
10	QPSK	25	14		22.95		24.0	0.0			
10	QPSK	25	27		22.84		24.0	0.0			
10	QPSK	50	0		22.84		24.0	0.0			
10	16QAM	1	1		22.89						
10	64QAM	1	1		22.22		23.0	1.0			
10	256QAM	1	1		20.05		21.0	3.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0			



n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				793					
Frequency (MHz)				22.60					
10	PI2 BPSK	1	1				24.0	0.0	
10	PI2 BPSK	1	26		22.54				
10	PI2 BPSK	1	50		22.54				
10	PI2 BPSK	25	0		22.51		24.0	0.0	
10	PI2 BPSK	25	14		22.53		24.0	0.0	
10	PI2 BPSK	25	27		22.49		24.0	0.0	
10	PI2 BPSK	50	0		22.51				
10	QPSK	1	1		22.62				
10	QPSK	1	26		22.50		24.0	0.0	
10	QPSK	1	50		22.55				
10	QPSK	25	0		22.49		24.0	0.0	
10	QPSK	25	14		22.57		24.0	0.0	
10	QPSK	25	27		22.50		24.0	0.0	
10	QPSK	50	0		22.54				
10	64QAM	1	1		22.49		24.0	0.0	
10	64QAM	1	1		22.00		23.0	1.0	
10	256QAM	1	1		19.89		21.0	3.0	
Channel				194180	198690	199100	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1		22.52	22.51	22.58	24.0	0.0

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374000	376000	379000			
Frequency (MHz)				1919	1925.5	1935			
40	PI2 BPSK	1	1		19.27	19.28	19.23		
40	PI2 BPSK	1	108		19.28	19.29	19.21	20.5	0.0
40	PI2 BPSK	1	214		19.29	19.29	19.28		
40	PI2 BPSK	108	0		19.29	19.23	19.30	20.5	0.0
40	PI2 BPSK	108	54		19.27	19.34	19.28	20.5	0.0
40	PI2 BPSK	108	108		19.28	19.32	19.21		
40	PI2 BPSK	216	0		19.29	19.24	19.27	20.5	0.0
40	QPSK	1	1		19.31	19.25	19.33		
40	QPSK	1	108		19.16	19.29	19.24	20.5	0.0
40	QPSK	1	214		19.24	19.32	19.31		
40	QPSK	108	0		19.29	19.34	19.29	20.5	0.0
40	QPSK	108	54		19.29	19.35	19.30	20.5	0.0
40	QPSK	108	108		19.29	19.23	19.19	20.5	0.0
40	QPSK	216	0		19.17	19.23	19.20		
40	16QAM	1	1		19.23	19.23	19.29	20.5	0.0
40	64QAM	1	1		19.17	19.37	19.25	20.5	0.0
40	256QAM	1	1		19.30	19.27	19.30	20.5	0.0
Channel				373500	376000	379500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1907.5	1925.5	1937.5			
35	QPSK	1	1		19.17	19.29	19.31	20.5	0.0
Channel				373000	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1895	1922.5	1950			
30	QPSK	1	1		19.23	19.29	19.30	20.5	0.0
Channel				372500	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1922.5	1952.5			
25	QPSK	1	1		19.21	19.23	19.25	20.5	0.0
Channel				372000	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1890	1892.5	1905			
20	QPSK	1	1		19.16	19.37	19.29	20.5	0.0
Channel				371500	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1892.5	1907.5			
15	QPSK	1	1		19.30	19.35	19.31	20.5	0.0
Channel				371000	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1895	1892.5	1910			
10	QPSK	1	1		19.24	19.30	19.22	20.5	0.0
Channel				370500	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1892.5	1922.5			
5	QPSK	1	1		19.19	19.28	19.24	20.5	0.0

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374500	376000	379000			
Frequency (MHz)				1939	1925.5	1935			
40	PI2 BPSK	1	1		19.00	19.18	19.08		
40	PI2 BPSK	1	108		19.05	19.08	19.15	21.0	0.0
40	PI2 BPSK	1	214		19.01	19.19	19.08		
40	PI2 BPSK	108	0		19.12	19.09	19.09	21.0	0.0
40	PI2 BPSK	108	54		19.07	19.13	19.12	21.0	0.0
40	PI2 BPSK	108	108		19.06	19.19	19.13		
40	PI2 BPSK	216	0		19.05	19.08	19.09	21.0	0.0
40	QPSK	1	1		19.14	19.20	19.17		
40	QPSK	1	108		19.09	19.05	19.09	21.0	0.0
40	QPSK	1	214		19.11	19.13	19.16		
40	QPSK	108	0		19.05	19.09	19.03	21.0	0.0
40	QPSK	108	54		19.08	19.14	19.13	21.0	0.0
40	QPSK	108	108		19.03	19.13	19.03	21.0	0.0
40	QPSK	216	0		19.10	19.12	19.06		
40	16QAM	1	1		19.13	19.13	19.05	21.0	0.0
40	64QAM	1	1		19.05	19.08	19.09	21.0	0.0
40	256QAM	1	1		17.75	17.89	17.74	19.5	1.5
Channel				373500	376000	379500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1927.5	1925.5	1937.5			
35	QPSK	1	1		19.12	19.14	19.06	21.0	0.0
Channel				373000	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1905	1892.5	1900			
30	QPSK	1	1		19.02	19.11	19.09	21.0	0.0
Channel				372500	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1902.5	1922.5	1902.5			
25	QPSK	1	1		19.10	19.12	19.04	21.0	0.0
Channel				372000	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1890	1892.5	1905			
20	QPSK	1	1		19.13	19.14	19.02	21.0	0.0
Channel				371500	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1892.5	1907.5			
15	QPSK	1	1		19.10	19.18	19.08	21.0	0.0
Channel				371000	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1895	1892.5	1910			
10	QPSK	1	1		19.08	19.08	19.03	21.0	0.0
Channel				370500	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1892.5	1922.5			
5	QPSK	1	1		19.06	19.15	19.05	21.0	0.0

n26_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				165000	166300	167600	24.0	0.0
Frequency (MHz)				83.5	831.5	839		
20	PI2 BPSK	1	1	22.87	22.89	22.83		
20	PI2 BPSK	1	53	22.88	22.83	22.87	24.0	0.0
20	PI2 BPSK	1	104	22.85	22.79	22.86		
20	PI2 BPSK	50	0	22.85	22.85	22.85		
20	PI2 BPSK	50	28	22.92	22.90	22.94	24.0	0.0
20	PI2 BPSK	50	56	22.87	22.86	22.86	24.0	0.0
20	PI2 BPSK	100	0	22.86	22.86	22.91	24.0	0.0
20	QPSK	1	1	22.99	22.98	23.02	24.0	0.0
20	QPSK	1	53	22.90	22.81	22.86		
20	QPSK	1	104	22.90	22.88	22.83		
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0
20	QPSK	50	28	22.87	22.85	22.86	24.0	0.0
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0
20	QPSK	100	0	22.80	22.79	22.83	24.0	0.0
20	16QAM	1	1	22.86	22.85	22.85	23.0	1.0
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0
Channel				165000	166300	167600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818	831.5	844	24.0	0.0
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0

n26_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				165000	166300	167600	24.0	0.0
Frequency (MHz)				834	831.5	839		
20	PI2 BPSK	1	1	22.86	22.88	22.87		
20	PI2 BPSK	1	53	22.88	22.78	22.80	24.0	0.0
20	PI2 BPSK	1	104	22.90	22.76	22.81		
20	PI2 BPSK	50	0	22.89	22.87	22.85		
20	PI2 BPSK	50	28	22.80	22.85	22.82	24.0	0.0
20	PI2 BPSK	50	56	22.85	22.80	22.81	24.0	0.0
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0
20	QPSK	1	1	22.99	22.97	23.00	24.0	0.0
20	QPSK	1	53	22.95	22.92	22.92		
20	QPSK	1	104	22.94	22.87	22.93		
20	QPSK	50	0	22.85	22.81	22.86	24.0	0.0
20	QPSK	50	28	22.90	22.89	22.95	24.0	0.0
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0
Channel				165000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				818	831.5	844	24.0	0.0
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0
Channel				163000	166300	169600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.85	22.87	22.86	24.0	0.0



n30_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				460000			
Frequency (MHz)				2310			
10	PI2 BPSK	1	1	20.08			
10	PI2 BPSK	1	26	20.15			
10	PI2 BPSK	1	50	20.07			22.0
10	PI2 BPSK	25	0	20.11			0.0
10	PI2 BPSK	25	14	20.13			22.0
10	PI2 BPSK	25	27	20.06			0.0
10	PI2 BPSK	50	0	20.12			22.0
10	QPSK	1	1	20.16			
10	QPSK	1	26	20.16			22.0
10	QPSK	1	50	20.04			0.0
10	QPSK	25	0	20.05			22.0
10	QPSK	25	14	20.15			0.0
10	QPSK	25	27	20.06			22.0
10	QPSK	50	0	20.13			0.0
10	16QAM	1	1	20.05			22.0
10	16QAM	1	1	19.75			0.5
10	256QAM	1	1	17.61			19.5
Channel				481500	460000	460200	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	20.05	20.16	20.06	22.0

n30_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel				460000			
Frequency (MHz)				2310			
10	PI2 BPSK	1	1	21.00			
10	PI2 BPSK	1	26	20.91			
10	PI2 BPSK	1	50	20.80			22.0
10	PI2 BPSK	25	0	20.77			0.0
10	PI2 BPSK	25	14	20.90			22.0
10	PI2 BPSK	25	27	20.71			0.0
10	PI2 BPSK	50	0	21.02			22.0
10	QPSK	1	1	21.06			
10	QPSK	1	26	20.95			22.0
10	QPSK	1	50	20.89			0.0
10	QPSK	25	0	20.86			22.0
10	QPSK	25	14	20.97			0.0
10	QPSK	25	27	20.79			22.0
10	QPSK	50	0	21.04			0.0
10	16QAM	1	1	21.02			22.0
10	16QAM	1	1	20.93			0.0
10	256QAM	1	1	20.88			21.0
Channel				481500	460000	460200	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	1	21.04	21.00	20.98	22.0



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.95	19.98	19.95			
40	P12 BPSK	1	108	19.89	19.97	19.88	21.0		0.0
40	P12 BPSK	1	214	19.90	19.90	19.88			
40	P12 BPSK	108	0	19.86	19.99	19.94	21.0		0.0
40	P12 BPSK	108	54	19.88	20.00	19.98	21.0		0.0
40	P12 BPSK	108	108	19.87	20.03	19.88			
40	P12 BPSK	216	0	19.91	19.95	19.89	21.0		0.0
40	QPSK	1	1	20.00	20.05	20.02			
40	QPSK	1	108	19.85	20.02	19.89			
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.98	19.88	21.0		0.0
40	QPSK	108	54	19.95	20.00	19.95	21.0		0.0
40	QPSK	108	108	19.91	19.97	19.93	21.0		0.0
40	QPSK	216	0	19.92	20.02	19.87			
40	16QAM	1	1	19.97	20.03	20.00	21.0		0.0
40	64QAM	1	1	19.92	20.00	20.00	21.0		0.0
40	256QAM	1	1	19.86	20.01	19.89	21.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.85	19.95	20.01	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.93	19.97	19.87	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	20.03	19.89	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.99	19.87	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.89	21.0		0.0

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	20.11	20.18	20.21			
40	P12 BPSK	1	108	20.16	20.20	20.21	21.0		0.0
40	P12 BPSK	1	214	20.08	20.18	20.19			
40	P12 BPSK	108	0	20.17	20.20	20.23	21.0		0.0
40	P12 BPSK	108	54	20.14	20.15	20.21	21.0		0.0
40	P12 BPSK	108	108	20.17	20.22	20.19			
40	P12 BPSK	216	0	20.12	20.13	20.19	21.0		0.0
40	QPSK	1	1	20.22	20.28	20.24			
40	QPSK	1	108	20.08	20.21	20.18	21.0		0.0
40	QPSK	1	214	20.13	20.19	20.23			
40	QPSK	108	0	20.10	20.15	20.14	21.0		0.0
40	QPSK	108	54	20.14	20.18	20.15	21.0		0.0
40	QPSK	108	108	20.13	20.17	20.17	21.0		0.0
40	QPSK	216	0	20.11	20.16	20.12			
40	16QAM	1	1	20.09	20.18	20.23	21.0		0.0
40	64QAM	1	1	20.19	20.16	20.13	21.0		0.0
40	256QAM	1	1	19.84	19.96	19.83	19.5		1.5
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.07	20.24	20.10	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.17	20.17	20.10	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.07	20.24	20.23	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.19	20.20	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.16	20.16	20.13	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.19	20.18	20.21	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.10	20.18	20.18	21.0		0.0

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1		170.25		22.0	0.0	
15	P12 BPSK	1	40		20.68				
15	P12 BPSK	1	77		20.78				
15	P12 BPSK	36	0		20.72				
15	P12 BPSK	36	22		20.73				
15	P12 BPSK	36	43		20.67				
15	P12 BPSK	75	0		20.69		22.0	0.0	
15	QPSK	1	1		20.82		22.0	0.0	
15	QPSK	1	40		20.73				
15	QPSK	1	77		20.73				
15	QPSK	36	0		20.68				
15	QPSK	36	22		20.70				
15	QPSK	36	43		20.67				
15	QPSK	75	0		20.75		22.0	0.0	
15	16QAM	1	1		20.78	20.23	22.0	0.0	
15	64QAM	1	1		20.74				
2500MHz					20.35		21.5	0.5	
Channel				245000	240000	241000	170.25 (dBm)	170.25 (dBm)	170.25 (dBm)
Frequency (MHz)				1700	1700.5	1705			
10	QPSK	1	1	20.81	20.77	20.68			
Channel				339000	334000	341500	170.25 (dBm)	170.25 (dBm)	170.25 (dBm)
Frequency (MHz)				1687.5	1702.5	1717.5			
5	QPSK	1	1	20.70	20.69	20.81			



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1		340000	340000	22.5	0.0	
15	P12 BPSK	1	40		21.87				
15	P12 BPSK	1	77		21.84				
15	P12 BPSK	36	0		21.87		22.5	0.0	
15	P12 BPSK	36	22		21.85		22.5	0.0	
15	P12 BPSK	36	43		21.87		22.5	0.0	
15	P12 BPSK	75	0		21.82		22.5	0.0	
15	QPSK	1	1		21.90				
15	QPSK	1	40		21.83				
15	QPSK	1	77		21.81		22.5	0.0	
15	QPSK	36	0		21.84		22.5	0.0	
15	QPSK	36	22		21.88		22.5	0.0	
15	QPSK	36	43		21.77		22.5	0.0	
15	QPSK	75	0		21.85		22.5	0.0	
15	16QAM	1	1		21.87		21.5	1.0	
15	64QAM	1	1		20.95		19.5	3.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.84	21.82	21.85	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.81	21.81	21.75	22.5	0.0	

n71_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dbs)	MPR (dB)			
Channel											
Frequency (MHz)											
30	P12 BPSK	1	1	23.08	23.09	23.03	24.0	0.0			
30	P12 BPSK	1	80	23.01	23.04	22.92					
30	P12 BPSK	1	158	23.00	23.08	23.01					
30	P12 BPSK	80	0	22.96	23.01	22.91	24.0	0.0			
30	P12 BPSK	80	40	22.99	23.03	23.01	24.0	0.0			
30	P12 BPSK	80	80	22.91	23.02	22.92	24.0	0.0			
30	P12 BPSK	160	0	22.95	22.99	22.98					
30	QPSK	1	1	23.08	23.10	23.01					
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0			
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0			
30	QPSK	80	0	22.98	22.93	22.91	24.0	0.0			
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0			
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0			
30	QPSK	160	0	22.91	22.88	22.86	24.0	0.0			
30	16QAM	1	1	22.80	22.83	22.83	24.0	0.0			
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0			
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0			
Channel											
Frequency (MHz)											
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	22.90	22.99	22.92	24.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	22.96	22.92	22.98	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0			

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				676	680.5	683			
30	P12 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	P12 BPSK	1	80	23.15	23.16	23.10			
30	P12 BPSK	1	158	23.18	23.24	23.20			
30	P12 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	P12 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	P12 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	P12 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.90	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
				134.00	136.00	137.00	Tune-up time (dBm)	MPR (dB)	
				618.5	660.5	665.5			
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
				134.660	136.000	137.660	Tune-up time (dBm)	MPR (dB)	
				674	668.5	663.5			
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
				134.100	135.000	136.100	Tune-up time (dBm)	MPR (dB)	
				670.5	660.5	660.5			
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
				134.100	135.000	136.000	Tune-up time (dBm)	MPR (dB)	
				666	660.5	660			
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
				133.700	136.000	138.300	Tune-up time (dBm)	MPR (dB)	
				665.5	660.5	665.5			
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	20.11	20.13	20.14	22.0	0.0	
40	Pl2 BPSK	1	53	20.13	20.15	20.17			
40	Pl2 BPSK	1	104	20.17	20.21	20.20			
40	Pl2 BPSK	50	0	20.20	20.22	20.18			
40	Pl2 BPSK	50	26	20.14	20.26	20.17	22.0	0.0	0.0
40	Pl2 BPSK	50	56	20.26	20.18	20.18	22.0	0.0	
40	Pl2 BPSK	100	0	20.12	20.26	20.25			
40	QPSK	1	1	20.30	20.39	20.33			
40	QPSK	1	53	20.31	20.16	20.30			
40	QPSK	1	104	20.10	20.16	20.23	22.0	0.0	
40	QPSK	50	0	20.23	20.31	20.08			
40	QPSK	50	26	20.26	20.26	20.24			
40	QPSK	50	56	20.27	20.20	20.13			
40	QPSK	100	0	20.12	20.24	20.18	22.0	0.0	0.0
40	16QAM	1	1	20.09	20.28	20.17	22.0	0.0	0.0
40	16QAM	1	1	20.03	20.02	20.06	21.5	0.5	0.5
40	256QAM	1	1	18.44	18.55	18.43	19.5	2.5	2.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.33	20.39	20.20	22.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.25	20.36	20.30	22.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.20	20.26	20.29	22.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.32	20.24	20.29	22.0	0.0	0.0

n38_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	21.36	21.45	21.36	22.5	0.0	
40	Pl2 BPSK	1	53	21.33	21.41	21.41			
40	Pl2 BPSK	1	104	21.33	21.42	21.29			
40	Pl2 BPSK	50	0	21.30	21.46	21.38			
40	Pl2 BPSK	50	26	21.39	21.47	21.38	22.5	0.0	
40	Pl2 BPSK	50	56	21.37	21.47	21.32	22.5	0.0	
40	Pl2 BPSK	100	0	21.30	21.35	21.35			
40	QPSK	1	1	21.44	21.49	21.42	22.5		
40	QPSK	1	53	21.36	21.46	21.40			
40	QPSK	1	104	21.39	21.42	21.41			
40	QPSK	50	0	21.33	21.40	21.32			
40	QPSK	50	26	21.36	21.42	21.34	22.5	0.0	
40	QPSK	50	56	21.30	21.40	21.28			
40	QPSK	100	0	21.30	21.40	21.38			
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0	
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0	
40	256QAM	1	1	20.91	20.94	20.92	21.5	1.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0	

n41_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 5060000	Power Middle Ch. / Freq. 1566000	Power High Ch. / Freq. 2560000	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
100	Pl2 BPSK	1	1	20.26	20.28	20.24	22.0	0.0			
100	Pl2 BPSK	1	137	20.28	20.27	20.26					
100	Pl2 BPSK	1	271	20.29	20.35	20.30					
100	Pl2 BPSK	135	0	20.26	20.32	20.28					
100	Pl2 BPSK	135	66	20.20	20.41	20.31	22.0	0.0	0.0		
100	Pl2 BPSK	135	136	20.32	20.27	20.30					
100	Pl2 BPSK	270	0	20.22	20.30	20.33					
100	QPSK	1	1	20.30	20.42	20.36					
100	QPSK	1	137	20.33	20.30	20.34	22.0	0.0	0.0		
100	QPSK	1	271	20.23	20.29	20.28					
100	QPSK	135	0	20.27	20.33	20.23					
100	QPSK	135	66	20.24	20.37	20.32	22.0				
100	QPSK	135	136	20.31	20.30	20.27		22.0	0.0		
100	QPSK	270	0	20.21	20.28	20.28					
100	16QAM	1	1	20.22	20.40	20.26	22.0				
100	16QAM	1	1	20.21	20.29	20.36	22.0	0.0	0.0		
100	256QAM	1	1	20.20	20.33	20.29	21.5				
Channel											
Frequency (MHz)											
90	QPSK	1	1	20.28	20.39	20.37	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
80	QPSK	1	1	20.28	20.39	20.37	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
70	QPSK	1	1	20.31	20.33	20.32	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
60	QPSK	1	1	20.30	20.39	20.23	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
50	QPSK	1	1	20.24	20.39	20.29	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
40	QPSK	1	1	20.34	20.30	20.35	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
30	QPSK	1	1	20.30	20.41	20.33	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
20	QPSK	1	1	20.33	20.28	20.24	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
15	QPSK	1	1	20.31	20.39	20.33	22.0	0.0	0.0		
Channel											
Frequency (MHz)											
10	QPSK	1	1	20.28	20.27	20.34	22.0	0.0	0.0		

n41_Ant 1_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Mid Ch. / Freq. 518098	Power High Ch. / Freq. 526000	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518098	526000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	20.20	20.20	20.24			
100	PQ2 BPSK	1	137	20.28	20.27	20.26	22.0	0.0	
100	PQ2 BPSK	1	271	20.29	20.35	20.30			
100	PQ2 BPSK	135	0	20.26	20.32	20.28	22.0	0.0	
100	PQ2 BPSK	135	69	20.20	20.41	20.31	22.0	0.0	
100	PQ2 BPSK	135	138	20.32	20.27	20.30	22.0	0.0	
100	PQ2 BPSK	270	0	20.22	20.30	20.33			
100	QPSK	1	1	20.30	20.42	20.38			
100	QPSK	1	137	20.33	20.30	20.34	22.0	0.0	
100	QPSK	1	271	20.23	20.29	20.28			
100	QPSK	135	0	20.27	20.33	20.23			
100	QPSK	135	69	20.34	20.27	20.32	22.0	0.0	
100	QPSK	135	138	20.31	20.30	20.27			
100	QPSK	270	0	20.21	20.29	20.28	22.0	0.0	
100	16QAM	1	1	20.22	20.40	20.26	22.0	0.0	
100	64QAM	1	1	20.21	20.29	20.36	22.0	0.0	
100	256QAM	1	1	20.20	20.33	20.29	22.0	0.0	
Channel				506000	518098	526096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2544.98			
90	QPSK	1	1	20.20	20.30	20.27	22.0	0.0	
Channel				507204	518098	526098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2548.99			
80	QPSK	1	1	20.28	20.37	20.31	22.0	0.0	
Channel				505002	518098	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2565			
70	QPSK	1	1	20.31	20.33	20.32	22.0	0.0	
Channel				505000	518098	536000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2534.01	2592.99	2574.98			
60	QPSK	1	1	20.30	20.38	20.23	22.0	0.0	
Channel				504204	518098	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2584.99			
50	QPSK	1	1	20.24	20.39	20.29	22.0	0.0	
Channel				503002	518098	536000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	20.34	20.30	20.35	22.0	0.0	
Channel				502200	518098	536996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.99	2574.98			
30	QPSK	1	1	20.30	20.41	20.33	22.0	0.0	
Channel				507004	518098	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2579.99			
20	QPSK	1	1	20.33	20.28	20.24	22.0	0.0	
Channel				500700	518098	538496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.01	2592.99	2582.48			
15	QPSK	1	1	20.31	20.39	20.33	22.0	0.0	
Channel				500002	518098	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2585			
10	QPSK	1	1	20.28	20.27	20.34	22.0	0.0	

n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506000	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PQ2 BPSK	1	1	20.31	20.44	20.29			
100	PQ2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21			
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.48	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.09	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13			
100	QPSK	135	69	20.05	20.36	20.24	22.0	0.0	
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98			
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524.01	2592.99	2659.98			
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0	
Channel				502205	518598	535956	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.99	2674.98			
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				507204	518598	532986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.51	2592.99	2682.48			
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PQ2 BPSK	1	1	22.43	22.49	22.22			
100	PQ2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0	
100	PQ2 BPSK	1	271	22.19	22.23	22.21			
100	PQ2 BPSK	135	0	21.88	21.99	21.86	23.5	0.5	
100	PQ2 BPSK	135	69	22.08	22.10	22.06	24.0	0.0	
100	PQ2 BPSK	135	138	21.75	21.89	21.69	23.5	0.5	
100	PQ2 BPSK	270	0	21.75	21.85	21.74			
100	QPSK	1	1	22.43	22.51	22.44			
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0	
100	QPSK	1	271	22.08	22.18	22.12			
100	QPSK	135	0	21.83	21.92	21.83			
100	QPSK	135	69	22.07	22.06	22.04	24.0	0.0	
100	QPSK	135	138	21.45	21.46	21.34			
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0	
100	16QAM	1	1	21.68	21.83	21.68	23.0	1.0	
100	64QAM	1	1	20.31	20.32	20.28	21.5	2.5	
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98			
90	QPSK	1	1	22.33	22.35	22.12	24.0	0.0	
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.38	22.43	22.11	24.0	0.0	
Channel				507502	518598	531010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0	
Channel				502000	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524.01	2592.99	2659.98			
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0	
Channel				504204	518598	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	22.35	22.43	22.15	24.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.34	22.36	22.21	24.0	0.0	
Channel				502205	518598	535956	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.99	2674.98			
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0	
Channel				507204	518598	532986	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0	
Channel				500700	518598	536486	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.51	2592.99	2682.48			
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.37	22.34	22.15	24.0	0.0	



n41_Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Middle Ch. / Freq. 518598	Power High Ch. / Freq. 526000	Tune-up limit (dBm)	MPR (dB)	
Channel				2546.01	2592.99	2540			
Frequency (MHz)				2546.01	2592.99	2540			
100	PQ2 BPSK	1	1	23.95	23.15	22.97	24.0		
100	PQ2 BPSK	1	137	22.97	23.06	22.86			
100	PQ2 BPSK	1	271	22.81	22.89	22.86			
100	PQ2 BPSK	135	0	22.96	23.11	22.86		0.0	
100	PQ2 BPSK	135	69	23.00	23.15	22.80	24.0		
100	PQ2 BPSK	135	138	22.74	22.88	22.80			
100	PQ2 BPSK	270	0	22.96	23.05	22.84			
100	QPSK	1	1	22.97	23.18	22.84			
100	QPSK	1	137	22.95	23.06	22.83	24.0		
100	QPSK	1	271	22.90	22.91	22.79			
100	QPSK	135	0	22.92	23.04	22.79			
100	QPSK	135	69	22.94	23.09	22.79		0.0	
100	QPSK	135	138	22.82	22.73	22.64	24.0		
100	QPSK	270	0	22.88	22.72	22.61			
100	16QAM	1	1	22.91	23.07	22.86		0.0	
100	64QAM	1	1	21.85	21.91	21.86		1.5	
100	256QAM	1	1	19.68	19.79	19.73		3.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	22.93	23.10	22.88	24.0		
Channel				507204	518598	520968			
Frequency (MHz)				2536.02	2592.99	2549.99			
80	QPSK	1	1	22.98	23.10	22.80		0.0	
Channel				507202	518598	520968	24.0		
Frequency (MHz)				2531.01	2592.99	2555			
70	QPSK	1	1	23.02	23.05	23.01		0.0	
Channel				502000	518598	531986			
Frequency (MHz)				2524	2592.99	2609.98			
60	QPSK	1	1	22.92	23.05	22.88	24.0		
Channel				504204	518598	532968			
Frequency (MHz)				2521.02	2592.99	2584.99			
50	QPSK	1	1	22.99	23.12	22.89		0.0	
Channel				503002	518598	534000	24.0		
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	22.95	23.07	22.86		0.0	
Channel				502200	518598	535986			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.98	23.06	22.89	24.0		
Channel				507204	518598	532968			
Frequency (MHz)				2506.02	2592.99	2579.99			
20	QPSK	1	1	22.90	23.12	22.85		0.0	
Channel				500700	518598	536486	24.0		
Frequency (MHz)				2503.5	2592.99	2582.48 <td colspan="2"></td>			
15	QPSK	1	1	22.99	23.04	22.88		0.0	
Channel				506002	518598	537000			
Frequency (MHz)				2501.01	2592.99	2585 <td colspan="2"></td>			
10	QPSK	1	1	22.89	23.05	22.85	24.0		

n41_Ant 5_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518598	526000			
Frequency (MHz)				2546.01	2592.99	2540			
100	PQ2 BPSK	1	1	24.23	24.27	24.20	26.0		0.0
100	PQ2 BPSK	1	137	24.10	24.12	24.11			
100	PQ2 BPSK	1	271	24.07	24.14	24.07			
100	PQ2 BPSK	135	0	23.69	23.75	23.72		25.5	0.5
100	PQ2 BPSK	135	69	24.02	24.07	24.04	26.0		0.0
100	PQ2 BPSK	135	138	23.50	23.55	23.53			
100	PQ2 BPSK	270	0	23.59	23.56	23.52		25.5	0.5
100	QPSK	1	1	24.53	24.64	24.53			
100	QPSK	1	137	24.18	24.21	24.19	26.0		0.0
100	QPSK	1	271	24.11	24.18	24.09			
100	QPSK	135	0	23.22	23.24	23.22			
100	QPSK	135	69	23.95	24.43	24.52			
100	QPSK	135	138	22.94	22.96	22.94	26.0		0.0
100	QPSK	270	0	23.48	23.51	23.41		25.0	1.0
100	16QAM	1	1	23.56	23.62	23.55		25.0	2.5
100	64QAM	1	1	22.06	22.09	22.01		23.5	2.5
100	256QAM	1	1	19.95	19.97	19.91		21.5	4.5
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	24.48	24.61	24.48	26.0		0.0
Channel				507204	518598	520968			
Frequency (MHz)				2536.02	2592.99	2549.99			
80	QPSK	1	1	24.51	24.57	24.47		0.0	
Channel				507202	518598	520968	24.0		
Frequency (MHz)				2531.01	2592.99	2555			
70	QPSK	1	1	24.50	24.62	24.51		0.0	
Channel				502000	518598	531986			
Frequency (MHz)				2526	2592.99	2609.98			
60	QPSK	1	1	24.47	24.62	24.49	26.0		0.0
Channel				504204	518598	532968			
Frequency (MHz)				2521.02	2592.99	2584.99			
50	QPSK	1	1	24.49	24.59	24.50		0.0	
Channel				503002	518598	534000	24.0		
Frequency (MHz)				2516.01	2592.99	2570			
40	QPSK	1	1	24.47	24.57	24.52		0.0	
Channel				502200	518598	535986			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.46	24.60	24.48	26.0		0.0
Channel				507204	518598	532968			
Frequency (MHz)				2506.02	2592.99	2579.99			
20	QPSK	1	1	24.48	24.58	24.51		0.0	
Channel				500700	518598	536486	24.0		
Frequency (MHz)				2503.5	2592.99	2582.48			
15	QPSK	1	1	24.46	24.63	24.48		0.0	
Channel				506002	518598	537000			
Frequency (MHz)				2501.01	2592.99	2585			
10	QPSK	1	1	24.45	24.55	24.47	26.0		

n41_Ant 6								
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				506002	518698	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518698	536006	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518698	532698	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518698	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518698	531996	Tune-up limit	MPR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518698	532698	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518698	536000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0
Channel				502200	518698	535000	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518698	532698	Tune-up limit	MPR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518698	536498	Tune-up limit	MPR
Frequency (MHz)				2603.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506002	518698	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.46	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	531000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	535996	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	528000			
Frequency (MHz)				2546.01	2562.99	2540			
100	Pl2 BPSK	1	1	21.53	21.55	21.45			
100	Pl2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	Pl2 BPSK	1	271	21.52	21.53	21.41			
100	Pl2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	Pl2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	Pl2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	Pl2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.55	21.59	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.48	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.51	21.56	21.43	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	16QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506200	518598	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2544.98			
80	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2662.99	2648.98			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				510202	511000	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2662.99	2605			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2543.02	2562.99	2584.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2543.02	2562.99	2584.98			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				510202	511000	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2662.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2643.5	2662.99	2683.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2680			
10	QPSK	1	1	21.51	21.49	21.48	22.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Middle Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	528000			
Frequency (MHz)				2546.01	2562.99	2540			
100	Pl2 BPSK	1	1	21.53	21.55	21.45			
100	Pl2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	Pl2 BPSK	1	271	21.52	21.53	21.41			
100	Pl2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	Pl2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	Pl2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	Pl2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.55	21.59	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.48	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.51	21.56	21.43	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	16QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506200	518598	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.99	2544.98			
80	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	528000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2662.99	2648.98			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				510202	511000	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2662.99	2605			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2543.02	2562.99	2584.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2543.02	2562.99	2584.98			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2562.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				510202	511000	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2662.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2643.5	2662.99	2683.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2562.99	2680			
10	QPSK	1	1	21.51	21.49	21.48	22.5	0.0	



n48_FCC_Part96_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	645332		
Frequency (MHz)				3270	3274.92	3279.88		
40	PI2 BPSK	1	1	19.20	19.34	19.32	20.5	0.0
40	PI2 BPSK	1	53	19.21	19.25	19.31		
40	PI2 BPSK	1	104	19.26	19.27	19.22		
40	PI2 BPSK	50	0	19.21	19.31	19.21	20.5	0.0
40	PI2 BPSK	50	26	19.26	19.30	19.20	20.5	0.0
40	PI2 BPSK	50	56	19.26	19.31	19.20	20.5	0.0
40	PI2 BPSK	100	0	19.25	19.34	19.26		
40	QPSK	1	1	19.24	19.40	19.30		
40	QPSK	1	53	19.26	19.37	19.25	20.5	0.0
40	QPSK	1	104	19.23	19.33	19.25		
40	QPSK	50	0	19.26	19.29	19.22		
40	QPSK	50	26	19.26	19.36	19.24	20.5	0.0
40	QPSK	50	56	19.21	19.33	19.25		
40	QPSK	100	0	19.31	19.35	19.33		
40	16QAM	1	1	19.25	19.26	19.27	20.5	0.0
40	16QAM	1	1	19.23	19.33	19.26	20.5	0.0
40	256QAM	1	1	19.28	19.32	19.32	20.5	0.0
Channel				637668	641666	645668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3265.02	3274.99	3284.99		
30	QPSK	1	1	19.22	19.29	19.21	20.5	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	19.17	19.28	19.31	20.5	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3665	3624.99	3694.98		
10	QPSK	1	1	19.20	19.26	19.33	20.5	0.0

n48_FCC_Part96_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				636000	641666	645332		
Frequency (MHz)				3270	3274.92	3279.88		
40	PI2 BPSK	1	1	18.69	18.75	18.76	20.0	0.0
40	PI2 BPSK	1	53	18.69	18.65	18.63		
40	PI2 BPSK	1	104	18.72	18.67	18.66		
40	PI2 BPSK	50	0	18.69	18.65	18.74	20.0	0.0
40	PI2 BPSK	50	26	18.65	18.74	18.71	20.0	0.0
40	PI2 BPSK	50	56	18.68	18.67	18.64	20.0	0.0
40	PI2 BPSK	100	0	18.64	18.75	18.66		
40	QPSK	1	1	18.72	18.80	18.77		
40	QPSK	1	53	18.65	18.75	18.65	20.0	0.0
40	QPSK	1	104	18.64	18.65	18.76		
40	QPSK	50	0	18.71	18.71	18.62		
40	QPSK	50	26	18.74	18.79	18.74	20.0	0.0
40	QPSK	50	56	18.70	18.77	18.65		
40	QPSK	100	0	18.64	18.65	18.65		
40	16QAM	1	1	18.59	18.73	18.74	20.0	0.0
40	16QAM	1	1	18.70	18.73	18.65	20.0	0.0
40	256QAM	1	1	18.68	18.79	18.68	20.0	0.0
Channel				637668	641666	645668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3265.02	3274.99	3284.99		
30	QPSK	1	1	18.70	18.70	18.74	20.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	18.67	18.71	18.64	20.0	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3665	3624.99	3694.98		
10	QPSK	1	1	18.58	18.68	18.67	20.0	0.0



n48_FCC_Part96_Ant 8											
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				636000	641666	645332					
Frequency (MHz)				327.9	323.99	329.98					
40	Pl2 BPSK	1	1	21.27	21.53	20.98	22.5	0.0			
40	Pl2 BPSK	1	53	20.76	20.88	20.84					
40	Pl2 BPSK	1	104	21.07	21.22	21.14					
40	Pl2 BPSK	50	0	20.71	20.70	20.70					
40	Pl2 BPSK	50	26	21.33	21.26	21.25	22.5	0.0			
40	Pl2 BPSK	50	56	20.65	20.65	20.66					
40	Pl2 BPSK	100	0	20.61	20.68	20.67					
40	QPSK	1	1	21.30	21.48	21.40		0.0			
40	QPSK	1	53	21.33	21.35	21.30	22.5				
40	QPSK	1	104	21.10	21.17	21.07					
40	QPSK	50	0	20.72	20.80	20.78					
40	QPSK	50	26	21.26	21.36	21.46	22.5	0.0			
40	QPSK	50	56	20.69	20.74	20.66					
40	QPSK	100	0	20.61	20.71	20.64					
40	16QAM	1	1	19.89	20.03	19.99	21.5	1.0			
40	64QAM	1	1	19.29	19.37	19.27	20.0	2.5			
40	256QAM	1	1	19.86	19.87	19.72	19.0	4.5			
Channel				637668	641666	645668	Tune-up limit	MPR			
Frequency (MHz)				3565.02	3624.99	3684.98	(dBm)	(dB)			
30	QPSK	1	1	21.54	21.47	21.43	22.5	0.0			
Channel				637334	641666	646000	Tune-up limit	MPR			
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)			
20	QPSK	1	1	21.30	21.44	21.45	22.5	0.0			
Channel				637000	641666	645332	Tune-up limit	MPR			
Frequency (MHz)				3565	3624.99	3694.98	(dBm)	(dB)			
10	QPSK	1	1	21.30	21.44	21.40	22.5	0.0			

n48_FCC_Part96_Ant 10											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Max Ch. Freq	Power High Ch. Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				636000	641666	645332					
Frequency (MHz)				327.9	323.99	329.98					
40	P2 BPSK	1	1	19.33	19.39	19.39	20.5	0.0			
40	P2 BPSK	1	53	19.30	19.39	19.30					
40	P2 BPSK	1	104	19.34	19.34	19.29					
40	P2 BPSK	50	0	19.30	19.42	19.32					
40	P2 BPSK	50	26	19.35	19.38	19.38	20.5	0.0			
40	P2 BPSK	50	56	19.31	19.42	19.36					
40	P2 BPSK	100	0	19.28	19.39	19.30					
40	QPSK	1	1	19.30	19.40	19.40		0.0			
40	QPSK	1	53	19.37	19.37	19.26	20.5				
40	QPSK	1	104	19.37	19.42	19.32					
40	QPSK	50	0	19.30	19.32	19.30					
40	QPSK	50	26	19.36	19.38	19.37	20.5	0.0			
40	QPSK	50	56	19.27	19.35	19.30					
40	QPSK	100	0	19.34	19.41	19.26					
40	16QAM	1	1	19.29	19.36	19.37	20.5	0.0			
40	64QAM	1	1	19.34	19.36	19.26	20.5	0.0			
40	256QAM	1	1	19.30	19.40	19.31	19.5	1.0			
Channel				637668	641666	645668	Tune-up limit	MPR			
Frequency (MHz)				3565.02	3624.99	3684.98	(dBm)	(dB)			
30	QPSK	1	1	19.39	19.44	19.34	20.5	0.0			
Channel				637334	641666	646000	Tune-up limit	MPR			
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)			
20	QPSK	1	1	19.32	19.39	19.27	20.5	0.0			
Channel				637000	641666	645332	Tune-up limit	MPR			
Frequency (MHz)				3565	3624.99	3694.98	(dBm)	(dB)			
10	QPSK	1	1	19.23	19.34	19.29	20.5	0.0			



Par27O n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	19.36	19.45	19.52	20.5	0.0	
100	Pl2 BPSK	1	137	19.41	19.52	19.48			
100	Pl2 BPSK	1	271	19.47	19.55	19.49			
100	Pl2 BPSK	136	0	19.45	19.47	19.34	20.5	0.0	
100	Pl2 BPSK	136	69	19.34	19.55	19.44	20.5	0.0	
100	Pl2 BPSK	136	138	19.42	19.51	19.40	20.5	0.0	
100	Pl2 BPSK	270	0	19.41	19.54	19.44	20.5	0.0	
100	QPSK	1	1	19.57	19.60	19.53			
100	QPSK	1	137	19.47	19.53	19.42			
100	QPSK	1	271	19.55	19.57	19.44	20.5	0.0	
100	QPSK	136	0	19.51	19.56	19.49			
100	QPSK	136	69	19.54	19.58	19.53			
100	QPSK	136	138	19.46	19.50	19.36	20.5	0.0	
100	QPSK	270	0	19.43	19.52	19.43	20.5	0.0	
100	16QAM	1	1	19.43	19.57	19.54	20.5	0.0	
100	16QAM	1	1	19.51	19.53	19.52	20.5	0.0	
100	256QAM	1	1	19.42	19.57	19.52	20.5	0.0	
Channel									
Frequency (MHz)				646968	656000	665332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.58	19.59	19.52	20.5	0.0	
Channel									
Frequency (MHz)				646334	656000	665966	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.48	19.45	19.54	20.5	0.0	
Channel									
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.47	19.59	19.51	20.5	0.0	
Channel									
Frequency (MHz)				646968	656000	665332	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.47	19.49	19.50	20.5	0.0	
Channel									
Frequency (MHz)				646334	656000	665966	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.48	19.51	19.52	20.5	0.0	
Channel									
Frequency (MHz)				646000	656000	666000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.52	19.50	19.52	20.5	0.0	
Channel									
Frequency (MHz)				647068	656000	665332	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.58	19.56	19.59	20.5	0.0	
Channel									
Frequency (MHz)				647233	656000	666066	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.57	19.47	19.58	20.5	0.0	
Channel									
Frequency (MHz)				647168	656000	664832	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.54	19.49	19.57	20.5	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.56	19.55	19.58	20.5	0.0	

Par270 n77_Ant 4_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	19.36	19.45	19.52	20.5	0.0	
100	Pl2 BPSK	1	137	19.41	19.52	19.48			
100	Pl2 BPSK	1	271	19.47	19.55	19.49			
100	Pl2 BPSK	136	0	19.45	19.47	19.34	20.5	0.0	
100	Pl2 BPSK	136	69	19.34	19.55	19.44	20.5	0.0	
100	Pl2 BPSK	136	138	19.42	19.51	19.40	20.5	0.0	
100	Pl2 BPSK	270	0	19.41	19.54	19.44	20.5	0.0	
100	QPSK	1	1	19.57	19.50	19.53			
100	QPSK	1	137	19.47	19.53	19.42			
100	QPSK	1	271	19.55	19.57	19.44	20.5	0.0	
100	QPSK	136	0	19.51	19.56	19.49			
100	QPSK	136	69	19.54	19.58	19.53			
100	QPSK	136	138	19.46	19.50	19.36	20.5	0.0	
100	QPSK	270	0	19.43	19.52	19.43	20.5	0.0	
100	16QAM	1	1	19.43	19.57	19.54	20.5	0.0	
100	16QAM	1	1	19.51	19.53	19.52	20.5	0.0	
100	256QAM	1	1	19.42	19.57	19.52	20.5	0.0	
Channel									
Frequency (MHz)				646968	656000	665332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.58	19.59	19.52	20.5	0.0	
Channel									
Frequency (MHz)				646334	656000	665966	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.48	19.45	19.54	20.5	0.0	
Channel									
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.47	19.59	19.51	20.5	0.0	
Channel									
Frequency (MHz)				646968	656000	665332	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.47	19.49	19.50	20.5	0.0	
Channel									
Frequency (MHz)				646334	656000	665966	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.48	19.51	19.52	20.5	0.0	
Channel									
Frequency (MHz)				646000	656000	666000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.52	19.50	19.52	20.5	0.0	
Channel									
Frequency (MHz)				647068	656000	665332	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.58	19.56	19.59	20.5	0.0	
Channel									
Frequency (MHz)				647233	656000	666066	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.57	19.47	19.58	20.5	0.0	
Channel									
Frequency (MHz)				647168	656000	664832	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.54	19.49	19.57	20.5	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.56	19.55	19.58	20.5	0.0	

Par27Q n77_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3499.98					
100	Pl2 BPSK	1	1		19.43		20.5	0.0	
100	Pl2 BPSK	1	137		19.54				
100	Pl2 BPSK	1	271		19.42				
100	Pl2 BPSK	136	0		19.54		20.5	0.0	
100	Pl2 BPSK	136	69		19.45		20.5	0.0	
100	Pl2 BPSK	136	138		19.44		20.5	0.0	
100	Pl2 BPSK	270	0		19.53		20.5	0.0	
100	QPSK	1	1		19.55				
100	QPSK	1	137		19.50				
100	QPSK	1	271		19.52		20.5	0.0	
100	QPSK	136	0		19.49				
100	QPSK	136	69		19.52				
100	QPSK	136	138		19.45		20.5	0.0	
100	QPSK	270	0		19.40		20.5	0.0	
100	16QAM	1	1		19.48		20.5	0.0	
100	16QAM	1	1		19.47		20.5	0.0	
100	256QAM	1	1		19.46		20.5	0.0	
Channel									
Frequency (MHz)				630000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.44	19.45	19.46	20.5	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.44	19.41	19.52	20.5	0.0	
Channel									
Frequency (MHz)				63495.01	3499.98	3500.00	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.50	19.51	19.52	20.5	0.0	
Channel									
Frequency (MHz)				3499.98	633332	636666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.45	19.44	19.59	20.5	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.45	19.48	19.58	20.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.47	19.47	19.43	20.5	0.0	
Channel									
Frequency (MHz)				631000	633332	636666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.50	19.43	19.41	20.5	0.0	
Channel									
Frequency (MHz)				630950	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.48	19.54	19.50	20.5	0.0	
Channel									
Frequency (MHz)				3497.52	3499.98	3542.49	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.54	19.42	19.48	20.5	0.0	
Channel									
Frequency (MHz)				632334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.49	19.42	19.46	20.5	0.0	

Par27Q n77_Ant 4_HPUE									
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)				3499.98					
100	P22 BPSK	1	1	19.43					
100	P22 BPSK	1	137	19.54			20.5	0.0	
100	P22 BPSK	1	271	19.42					
100	P22 BPSK	135	0	19.54			20.5	0.0	
100	P22 BPSK	135	69	19.45			20.5	0.0	
100	P22 BPSK	135	138	19.44			20.5	0.0	
100	P22 BPSK	270	0	19.53					
100	QPSK	1	1	19.55			20.5	0.0	
100	QPSK	1	137	19.50					
100	QPSK	1	271	19.52					
100	QPSK	135	0	19.49					
100	QPSK	135	69	19.52			20.5	0.0	
100	QPSK	135	138	19.45					
100	QPSK	270	0	19.40			20.5	0.0	
100	16QAM	1	1	19.48			20.5	0.0	
100	64QAM	1	1	19.47			20.5	0.0	
100	256QAM	1	1	19.46			20.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	19.44	19.45	19.46	20.5	0.0	
Channel				632008	633332	634656	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.54	19.41	19.52	20.5	0.0	
Channel				632234	633332	634432	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495.01	3499.98	3514.98			
70	QPSK	1	1	19.50	19.41	19.52	20.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3511.99			
60	QPSK	1	1	19.45	19.54	19.45	20.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3479.02	3499.98	3520			
50	QPSK	1	1	19.49	19.46	19.49	20.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.47	19.47	19.43	20.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.50	19.43	19.41	20.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.48	19.54	19.50	20.5	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.01	3499.98	3542.09			
15	QPSK	1	1	19.54	19.42	19.48	20.5	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3499.98	3544.98			
10	QPSK	1	1	19.45	19.42	19.45	20.5	0.0	

Par270 n77_Ant 7									
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)				3750	3840	3930			
100	P22 BPSK	1	1	22.92	23.09	23.01			
100	P22 BPSK	1	137	22.99	23.07	22.93	24.0		0.0
100	P22 BPSK	1	271	22.92	23.03	22.61			
100	P22 BPSK	135	0	22.82	22.98	22.88	24.0	0.0	
100	P22 BPSK	135	69	23.05	23.07	23.00	24.0	0.0	
100	P22 BPSK	135	138	22.79	22.89	22.81	24.0	0.0	
100	P22 BPSK	270	0	22.72	22.98	22.85			
100	QPSK	1	1	23.02	23.18	22.95			
100	QPSK	1	137	22.92	23.09	22.93	24.0	0.0	
100	QPSK	1	271	22.91	23.02	22.83			
100	QPSK	135	0	22.90	22.97	22.80			
100	QPSK	135	69	23.02	23.13	22.94	24.0	0.0	
100	QPSK	135	138	22.84	22.89	22.67			
100	QPSK	270	0	22.86	23.02	22.76	24.0	0.0	
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0	
100	64QAM	1	1	22.37	22.49	22.31	23.5	0.5	
100	256QAM	1	1	20.41	20.49	20.36	21.5	2.5	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	22.85	23.11	22.77	24.0		
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	22.96	23.01	22.79	24.0		
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.94	23.04	22.78	24.0		
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.01	3840	3949.99			
60	QPSK	1	1	23.00	23.11	22.93	24.0		
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	22.90	22.96	22.76	24.0		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.89	23.00	22.84	24.0		
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840.00	3964.98			
30	QPSK	1	1	22.87	23.07	22.93	24.0		
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	1	22.87	23.08	22.92	24.0		
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.01	3840	3972.04			
15	QPSK	1	1	22.85	23.01	22.76	24.0		
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.83	22.97	22.83	24.0		

Par270 n77_Ant 7_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Fz]	Power Mid Ch. [Fz]	Power High Ch. [Fz]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	P22 BPSK	1	1	24.08	24.03	24.01			
100	P22 BPSK	1	137	24.05	24.08	23.93	25.5	0.0	
100	P22 BPSK	1	271	24.06	24.03	24.03			
100	P22 BPSK	135	0	23.99	24.10	24.03	25.5	0.0	
100	P22 BPSK	135	69	23.93	24.02	24.04	25.5	0.0	
100	P22 BPSK	135	138	24.05	24.03	23.93	25.5	0.0	
100	P22 BPSK	270	0	23.93	24.04	23.92			
100	QPSK	1	1	24.05	24.12	24.05			
100	QPSK	1	137	23.94	23.98	23.91	25.5	0.0	
100	QPSK	1	271	24.00	24.00	23.93			
100	QPSK	135	0	24.03	24.00	24.01			
100	QPSK	135	69	24.05	24.07	24.02	25.5	0.0	
100	QPSK	135	138	24.02	23.98	24.00			
100	QPSK	270	0	23.98	23.71	23.98	25.0	0.5	
100	16QAM	1	1	23.61	23.68	23.46	25.0	0.5	
100	64QAM	1	1	22.41	22.51	22.37	23.5	2.0	
100	256QAM	1	1	20.70	20.75	20.71	21.5	4.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02 <th>3840</th> <th>3934.98</th> <th></th> <th></th> <th></th>	3840	3934.98			
90	QPSK	1	1	24.03	24.05	23.92	25.5	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01 <th>3840</th> <th>3939.99</th> <th></th> <th></th> <th></th>	3840	3939.99			
80	QPSK	1	1	23.94	24.09	23.97	25.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735 <th>3840</th> <th>3945<th></th><th></th><th></th></th>	3840	3945 <th></th> <th></th> <th></th>			
70	QPSK	1	1	24.07	24.08	24.00	25.5	0.0	
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.01 <th>3840</th> <th>3949.99</th> <th></th> <th></th> <th></th>	3840	3949.99			
60	QPSK	1	1	23.97	24.04	24.03	25.5	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01 <th>3840</th> <th>3949.99</th> <th></th> <th></th> <th></th>	3840	3949.99			
50	QPSK	1	1	23.98	24.08	23.90	25.5	0.0	
Channel				648000	650000	651330	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.01 <th>3840</th> <th>3950</th> <th></th> <th></th> <th></th>	3840	3950			
40	QPSK	1	1	23.94	24.11	23.98	25.5	0.0	
Channel				647668	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02 <th>3840.02<th>3944.98</th><th></th><th></th><th></th></th>	3840.02 <th>3944.98</th> <th></th> <th></th> <th></th>	3944.98			
30	QPSK	1	1	24.06	24.07	24.03	25.5	0.0	
Channel				647334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01 <th>3840</th> <th>3969.99</th> <th></th> <th></th> <th></th>	3840	3969.99			
20	QPSK	1	1	24.07	24.07	23.98	25.5	0.0	
Channel				647000	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02 <th>3840</th> <th>3972.48</th> <th></th> <th></th> <th></th>	3840	3972.48			
15	QPSK	1	1	23.95	24.05	23.95	25.5	0.0	
Channel				646700	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700 <th>3840</th> <th>3975</th> <th></th> <th></th> <th></th>	3840	3975			
10	QPSK	1	1	24.04	24.10	23.95	25.5	0.0	

Par27Q n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)							
100	P2/BPSK	1	1	22.72	3499.98		
100	P2/BPSK	1	137	23.06			24.0 0.0
100	P2/BPSK	1	271	23.04			
100	P2/BPSK	135	0	22.64			24.0 0.0
100	P2/BPSK	135	69	22.83			24.0 0.0
100	P2/BPSK	135	138	23.05			24.0 0.0
100	P2/BPSK	270	0	22.91			
100	QPSK	1	1	23.12			24.0 0.0
100	QPSK	1	137	22.89			
100	QPSK	1	271	22.70			
100	QPSK	135	0	22.70			
100	QPSK	135	69	22.85			24.0 0.0
100	QPSK	135	138	22.75			
100	QPSK	270	0	22.81			24.0 0.0
100	16QAM	1	1	22.82			24.0 0.0
100	64QAM	1	1	22.75			23.5 0.5
100	256QAM	1	1	20.85			21.5 2.5
Channel							
				633000	633332	633666	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	3495	3499.98	3504.99	24.0 0.0
Channel							
				632698	633332	633500	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	3490.02	3499.98	3510	24.0 0.0
Channel							
				632534	633332	634132	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	23.11	23.11	23.10	24.0 0.0
Channel							
				632000	633332	634666	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	23.07	23.11	23.06	24.0 0.0
Channel							
				631668	633332	635000	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	23.05	23.05	23.05	24.0 0.0
Channel							
				631334	633332	635332	Tune-up limit (dBm) MPR
Frequency (MHz)							
40	QPSK	1	1	23.11	23.10	23.07	24.0 0.0
Channel							
				631000	633332	635666	Tune-up limit (dBm) MPR
Frequency (MHz)							
30	QPSK	1	1	23.11	23.06	23.08	24.0 0.0
Channel							
				630668	633332	636000	Tune-up limit (dBm) MPR
Frequency (MHz)							
20	QPSK	1	1	23.09	23.10	23.11	24.0 0.0
Channel							
				630330	633332	636366	Tune-up limit (dBm) MPR
Frequency (MHz)							
15	QPSK	1	1	23.11	23.11	23.07	24.0 0.0
Channel							
				630334	633332	636332	Tune-up limit (dBm) MPR
Frequency (MHz)							
10	QPSK	1	1	23.05	23.07	23.07	24.0 0.0

Par27Q n77_Ant 7_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)							
100	P2/BPSK	1	1	23.59	3499.98		
100	P2/BPSK	1	137	23.95			25.5 0.0
100	P2/BPSK	1	271	23.98			
100	P2/BPSK	135	0	23.96			25.5 0.0
100	P2/BPSK	135	69	23.89			25.5 0.0
100	P2/BPSK	135	138	23.97			25.5 0.0
100	P2/BPSK	270	0	23.89			
100	QPSK	1	1	24.02			25.5 0.0
100	QPSK	1	137	23.95			
100	QPSK	1	271	23.95			
100	QPSK	135	0	23.99			
100	QPSK	135	69	24.01			25.5 0.0
100	QPSK	135	138	23.89			
100	QPSK	270	0	24.00			25.0 0.5
100	16QAM	1	1	23.98			25.0 0.5
100	64QAM	1	1	22.73			23.5 2.0
100	256QAM	1	1	20.85			21.5 4.0
Channel							
				633000	633332	633666	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	23.95	3499.98	3504.99	25.5 0.0
Channel							
				632698	633332	634000	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	23.99	23.99	23.94	25.5 0.0
Channel							
				632534	633332	634132	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	23.95	23.98	23.94	25.5 0.0
Channel							
				632000	633332	634666	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	23.98	23.85	23.86	25.5 0.0
Channel							
				631668	633332	635000	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	23.95	23.99	23.99	25.5 0.0
Channel							
				631334	633332	635332	Tune-up limit (dBm) MPR
Frequency (MHz)							
40	QPSK	1	1	23.95	23.99	23.99	25.5 0.0
Channel							
				631000	633332	635666	Tune-up limit (dBm) MPR
Frequency (MHz)							
30	QPSK	1	1	23.86	23.87	23.87	25.5 0.0
Channel							
				630668	633332	636000	Tune-up limit (dBm) MPR
Frequency (MHz)							
20	QPSK	1	1	23.88	23.88	23.89	25.5 0.0
Channel							
				630330	633332	636366	Tune-up limit (dBm) MPR
Frequency (MHz)							
15	QPSK	1	1	23.96	23.97	23.98	25.5 0.0
Channel							
				630334	633332	636332	Tune-up limit (dBm) MPR
Frequency (MHz)							
10	QPSK	1	1	23.91	23.87	23.83	25.5 0.0

Par27O n77_Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)							
100	P2/BPSK	1	1	3705	3540	3700	
100	P2/BPSK	1	137	19.48	19.43	19.32	21.0 0.0
100	P2/BPSK	1	271	19.52	19.45	19.39	
100	P2/BPSK	135	0	19.48	19.47	19.42	21.0 0.0
100	P2/BPSK	135	69	19.49	19.53	19.32	21.0 0.0
100	P2/BPSK	135	138	19.44	19.55	19.46	21.0 0.0
100	P2/BPSK	270	0	19.43	19.44	19.39	
100	QPSK	1	1	19.53	19.58	19.47	21.0 0.0
100	QPSK	1	137	19.45	19.50	19.42	
100	QPSK	1	271	19.42	19.56	19.38	
100	QPSK	135	0	19.40	19.52	19.43	
100	QPSK	135	69	19.55	19.57	19.44	21.0 0.0
100	QPSK	135	138	19.42	19.44	19.40	
100	QPSK	270	0	19.48	19.49	19.35	21.0 0.0
100	16QAM	1	1	19.43	19.51	19.43	21.0 0.0
100	64QAM	1	1	18.99	19.02	19.00	20.5 0.5
100	256QAM	1	1	18.82	18.99	18.80	18.5 2.5
Channel							
				649698	650000	662332	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	3745.02	3540	3534.98	21.0 0.0
Channel							
				649334	650000	662666	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	19.50	19.56	19.32	21.0 0.0
Channel							
				649000	650000	663000	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	19.40	19.50	19.44	21.0 0.0
Channel							
				648698	650000	663332	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	19.52	19.51	19.34	21.0 0.0
Channel							
				648334	650000	663666	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	19.41	19.57	19.45	21.0 0.0



Par270 n77_Ant 8_HPUE								
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	PQ2 BPSK	1	1	3752	3840	3930		
100	PQ2 BPSK	1	1	2141	2144	2143		
100	PQ2 BPSK	1	137	2118	2129	2128	23.0	0.0
100	PQ2 BPSK	1	271	2138	2142	2131		
100	PQ2 BPSK	135	0	2037	2072	2070	22.5	0.5
100	PQ2 BPSK	135	69	2133	2134	2121	23.0	0.0
100	PQ2 BPSK	135	138	2079	2083	2070	22.5	0.5
100	PQ2 BPSK	270	0	2036	2072	2071		
100	QPSK	1	1	2141	2154	2152		
100	QPSK	1	137	2136	2143	2131	23.0	0.0
100	QPSK	1	271	2114	2123	2111		
100	QPSK	135	0	2035	2039	2037		
100	QPSK	135	69	2036	2148	2142	23.0	0.0
100	QPSK	135	138	2044	2045	2036		
100	QPSK	270	0	2035	2043	2039	22.0	1.0
100	16QAM	1	1	2037	2049	2037	22.0	1.0
100	64QAM	1	1	1836	1802	1831	20.0	2.5
100	256QAM	1	1	1838	1830	1875	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	2108	2134	2138	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2116	2129	2139	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2108	2138	2140	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2112	2130	2135	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2109	2129	2130	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2110	2132	2134	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2108	2132	2137	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2114	2133	2134	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2111	2134	2134	23.0	0.0

Par27Q n77_Ant 8								
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	PQ2 BPSK	1	1	1834	1837	1834		
100	PQ2 BPSK	1	137	1837	1837	1837	20.5	0.0
100	PQ2 BPSK	1	271	1839				
100	PQ2 BPSK	135	0	1830			20.5	0.0
100	PQ2 BPSK	135	69	1833			20.5	0.0
100	PQ2 BPSK	135	138	1830			20.5	0.0
100	PQ2 BPSK	270	0	1835				
100	QPSK	1	1	1835			20.5	0.0
100	QPSK	1	137	1833			20.5	0.0
100	QPSK	1	271	1833				
100	QPSK	135	0	1837				
100	QPSK	135	69	1831			20.5	0.0
100	QPSK	135	138	1839				
100	QPSK	270	0	1830			20.5	0.0
100	16QAM	1	1	1834			20.5	0.0
100	64QAM	1	1	1835			20.0	0.5
100	256QAM	1	1	1838			18.0	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	1835	1833	1832	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	1835	1839	1831	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	1836	1835	1837	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	1836	1837	1838	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	1831	1833	1835	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	1834	1833	1835	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	1833	1833	1833	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	1838	1839	1839	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1836	1831	1838	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	1835	1835	1833	20.5	0.0

Par27Q n77_Ant 8_HPUE								
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	PQ2 BPSK	1	1	2038	2038	2038		
100	PQ2 BPSK	1	137	2038	2038	2038	22.5	0.0
100	PQ2 BPSK	1	271	2039				
100	PQ2 BPSK	135	0	2035			22.0	0.5
100	PQ2 BPSK	135	69	2038			22.5	0.0
100	PQ2 BPSK	135	138	2040			22.0	0.5
100	PQ2 BPSK	270	0	2032				
100	QPSK	1	1	2039			22.5	0.0
100	QPSK	1	137	2032				
100	QPSK	1	271	2036				
100	QPSK	135	0	1978				
100	QPSK	135	69	2032			22.5	0.0
100	QPSK	135	138	1980				
100	QPSK	270	0	1970			21.5	1.0
100	16QAM	1	1	1999			21.5	1.0
100	64QAM	1	1	1845			20.0	2.5
100	256QAM	1	1	1838			18.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	2033	2038	2037	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2036	2033	2039	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2032	2037	2036	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2039	2039	2033	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2033	2032	2033	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2039	2032	2037	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2036	2034	2030	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2031	2037	2039	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2034	2033	2037	22.5	0.0

Par270 n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P2/BPSK	1	1	17.01	17.05	17.03			
100	P2/BPSK	1	137	17.00	17.13	17.05	18.5	0.0	
100	P2/BPSK	1	271	16.96	17.00	17.01			
100	P2/BPSK	135	0	17.05	17.05	17.05	18.5	0.0	
100	P2/BPSK	135	66	17.05	17.05	17.10	18.5	0.0	
100	P2/BPSK	135	138	16.93	17.11	17.04			
100	P2/BPSK	270	0	17.06	17.06	17.06	18.5	0.0	
100	QPSK	1	1	17.05	17.15	17.12			
100	QPSK	1	137	17.01	17.13	17.06	18.5	0.0	
100	QPSK	1	271	17.05	17.08	17.00			
100	QPSK	135	0	17.03	17.10	17.01			
100	QPSK	135	66	17.05	17.14	17.08	18.5	0.0	
100	QPSK	135	138	16.96	17.00	16.98			
100	QPSK	270	0	17.01	17.12	16.98	18.5	0.0	
100	16QAM	1	1	16.96	17.03	17.03	18.5	0.0	
100	64QAM	1	1	16.96	17.06	17.03	18.5	0.0	
100	256QAM	1	1	17.05	17.11	17.09	18.5	0.0	
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	17.04	17.02	17.04	18.5	0.0	
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	16.97	17.04	16.97	18.5	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	16.97	17.14	17.04	18.5	0.0	
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3730.01	3840	3949.99	(dBm)	(dB)	
60	QPSK	1	1	17.00	17.00	17.04	18.5	0.0	
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	17.04	17.04	17.04	18.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.95	17.07	17.01	18.5	0.0	
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	16.96	17.01	17.05	18.5	0.0	
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	16.95	17.00	17.04	18.5	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	17.05	17.05	17.04	18.5	0.0	

Par270 n77_Ant 10_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	P2/BPSK	1	1	17.01	17.05	17.03			
100	P2/BPSK	1	137	17.00	17.13	17.05	18.5	0.0	
100	P2/BPSK	1	271	16.96	17.00	17.01			
100	P2/BPSK	135	0	17.05	17.05	17.05	18.5	0.0	
100	P2/BPSK	135	66	17.05	17.05	17.10	18.5	0.0	
100	P2/BPSK	135	138	16.93	17.11	17.04			
100	P2/BPSK	270	0	17.06	17.06	17.06	18.5	0.0	
100	QPSK	1	1	17.05	17.15	17.12			
100	QPSK	1	137	17.01	17.13	17.06	18.5	0.0	
100	QPSK	1	271	17.05	17.08	17.00			
100	QPSK	135	0	17.03	17.10	17.01			
100	QPSK	135	66	17.05	17.14	17.08	18.5	0.0	
100	QPSK	135	138	16.96	17.00	16.98			
100	QPSK	270	0	17.01	17.12	16.98	18.5	0.0	
100	16QAM	1	1	16.96	17.03	17.03	18.5	0.0	
100	64QAM	1	1	16.96	17.06	17.03	18.5	0.0	
100	256QAM	1	1	17.05	17.11	17.09	18.5	0.0	
Channel				649668	656000	662332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	17.04	17.02	17.04	18.5	0.0	
Channel				649334	656000	662666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	16.97	17.04	16.97	18.5	0.0	
Channel				649000	656000	663000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	16.97	17.14	17.04	18.5	0.0	
Channel				648668	656000	663332	Tune-up limit	MPR	
Frequency (MHz)				3730.01	3840	3949.99	(dBm)	(dB)	
60	QPSK	1	1	17.00	17.00	17.04	18.5	0.0	
Channel				648334	656000	663666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	17.04	17.04	17.04	18.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.95	17.07	17.01	18.5	0.0	
Channel				647668	656000	664332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	16.96	17.01	17.05	18.5	0.0	
Channel				647334	656000	664666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	16.95	17.00	17.04	18.5	0.0	
Channel				647000	656000	665000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	17.05	17.05	17.04	18.5	0.0	

Par27Q n77_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				63300	63333	63366			
100	P2/BPSK	1	1		17.14				
100	P2/BPSK	1	137		17.12		18.5	0.0	
100	P2/BPSK	1	271		17.07				
100	P2/BPSK	135	0		17.19		18.5	0.0	
100	P2/BPSK	135	66		17.20		18.5	0.0	
100	P2/BPSK	135	138		17.13		18.5	0.0	
100	P2/BPSK	270	0		17.11				
100	QPSK	1	1		17.22		18.5	0.0	
100	QPSK	1	137		17.16				
100	QPSK	1	271		17.12				
100	QPSK	135	0		17.14				
100	QPSK	135	66		17.17		18.5	0.0	
100	QPSK	135	138		17.12				
100	QPSK	270	0		17.11		18.5	0.0	
100	16QAM	1	1		17.20		18.5	0.0	
100	64QAM	1	1		17.17		18.5	0.0	
100	256QAM	1	1		17.09		18.5	0.0	
Channel				63300	63333	63366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	17.15	17.17	17.12	18.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	17.15	17.09	17.13	18.5	0.0	
Channel				632336	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	17.09	17.12	17.06	18.5	0.0	
Channel				632004	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.98			
60	QPSK	1	1	17.18	17.10	17.07	18.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	17.16	17.19	17.15	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.17	3499.98	3529.98			
40	QPSK	1	1	17.07	17.12	17.10	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	17.13	17.21	17.07	18.5	0.0	
Channel				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	17.14	17.20	17.17	18.5	0.0	
Channel				630332	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.25	3499.98	3542.49			
15	QPSK	1	1	17.20	17.19	17.17	18.5	0.0	
Channel				630004	633332	636666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3448.18	3499.98	3544.88			
10	QPSK	1	1	17.08	17.14	17.14	18.5	0.0	

Par27Q n77_Ant 10_HPUE								
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)				635332		3499.98		
100	PQ2 BPSK	1	1	17.14				
100	PQ2 BPSK	1	137	17.12			18.5	0.0
100	PQ2 BPSK	1	271	17.07				
100	PQ2 BPSK	135	0	17.19			18.5	0.0
100	PQ2 BPSK	135	69	17.20			18.5	0.0
100	PQ2 BPSK	135	138	17.13			18.5	0.0
100	PQ2 BPSK	270	0	17.11				
100	QPSK	1	1	17.22				
100	QPSK	1	137	17.16			18.5	0.0
100	QPSK	1	271	17.12				
100	QPSK	135	0	17.14				
100	QPSK	135	69	17.17			18.5	0.0
100	QPSK	135	138	17.12				
100	QPSK	270	0	17.11			18.5	0.0
100	16QAM	1	1	17.20			18.5	0.0
100	64QAM	1	1	17.17			18.5	0.0
100	256QAM	1	1	17.09			18.5	0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3499	3499.98	3504.99		
90	QPSK	1	1	17.15	17.17	17.12	18.5	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	17.15	17.09	17.13	18.5	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	17.09	17.12	17.09	18.5	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3480	3499.98	3519.98		
60	QPSK	1	1	17.18	17.10	17.07	18.5	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3474.02	3499.98	3520		
50	QPSK	1	1	17.10	17.19	17.15	18.5	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	17.07	17.12	17.10	18.5	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	17.13	17.21	17.07	18.5	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	17.14	17.20	17.17	18.5	0.0
Channel				630330	633332	636366	Tune-up limit (dBm)	MPR
Frequency (MHz)				3457.01	3499.98	3542.09		
15	QPSK	1	1	17.20	17.19	17.17	18.5	0.0
Channel				630034	633332	636666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	17.40	17.14	17.14	18.5	0.0

Par270 n78_Ant 4								
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)				650000		3750		
100	PQ2 BPSK	1	1	19.37				
100	PQ2 BPSK	1	137	19.40			20.5	0.0
100	PQ2 BPSK	1	271	19.39				
100	PQ2 BPSK	135	0	19.35			20.5	0.0
100	PQ2 BPSK	135	69	19.47			20.5	0.0
100	PQ2 BPSK	135	138	19.48			20.5	0.0
100	PQ2 BPSK	270	0	19.43				
100	QPSK	1	1	19.49				
100	QPSK	1	137	19.46			20.5	0.0
100	QPSK	1	271	19.42				
100	QPSK	135	0	19.41				
100	QPSK	135	69	19.43			20.5	0.0
100	QPSK	135	138	19.37				
100	QPSK	270	0	19.34			20.5	0.0
100	16QAM	1	1	19.36			20.5	0.0
100	64QAM	1	1	19.40			20.5	0.0
100	256QAM	1	1	19.36			20.5	0.0
Channel				649968	650000	650032	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1	19.42	19.48	19.47	20.5	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3759.99		
80	QPSK	1	1	19.42	19.37	19.40	20.5	0.0
Channel				648900	650000	651000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.36	19.34	19.44	20.5	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.01	3750	3774.99		
60	QPSK	1	1	19.38	19.39	19.44	20.5	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3779.98		
50	QPSK	1	1	19.30	19.45	19.44	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.47	19.43	19.44	20.5	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750.00	3784.98		
30	QPSK	1	1	19.38	19.48	19.45	20.5	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3789.99		
20	QPSK	1	1	19.40	19.47	19.36	20.5	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.03	3750	3792.48		
15	QPSK	1	1	19.42	19.43	19.43	20.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	19.45	19.47	19.40	20.5	0.0

Par270 n78_Ant 4_HPUE								
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)				650000		3750		
100	PQ2 BPSK	1	1	19.37				
100	PQ2 BPSK	1	137	19.40			20.5	0.0
100	PQ2 BPSK	1	271	19.39				
100	PQ2 BPSK	135	0	19.35			20.5	0.0
100	PQ2 BPSK	135	69	19.47			20.5	0.0
100	PQ2 BPSK	135	138	19.48			20.5	0.0
100	PQ2 BPSK	270	0	19.43				
100	QPSK	1	1	19.49				
100	QPSK	1	137	19.46			20.5	0.0
100	QPSK	1	271	19.42				
100	QPSK	135	0	19.41				
100	QPSK	135	69	19.43			20.5	0.0
100	QPSK	135	138	19.37				
100	QPSK	270	0	19.34			20.5	0.0
100	16QAM	1	1	19.36			20.5	0.0
100	64QAM	1	1	19.40			20.5	0.0
100	256QAM	1	1	19.36			20.5	0.0
Channel				649968	650000	650032	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1	19.42	19.48	19.47	20.5	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740.01	3750	3759.99		
80	QPSK	1	1	19.42	19.37	19.40	20.5	0.0
Channel				648900	650000	651000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.36	19.34	19.44	20.5	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3730.01	3750	3774.99		
60	QPSK	1	1	19.38	19.39	19.44	20.5	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3725.01	3750	3779.98		
50	QPSK	1	1	19.30	19.45	19.44	20.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.47	19.43	19.44	20.5	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3715.02	3750.00	3784.98		
30	QPSK	1	1	19.38	19.48	19.45	20.5	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3710.01	3750	3789.99		
20	QPSK	1	1	19.40	19.47	19.36	20.5	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR
Frequency (MHz)				3707.03	3750	3792.48		
15	QPSK	1	1	19.42	19.43	19.43	20.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	19.45	19.47	19.40	20.5	0.0



Part27Q n78_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				635332		3499.98			
Frequency (MHz)				19.42					
100	PI2 BPSK	1	1		19.31		20.5	0.0	
100	PI2 BPSK	1	137		19.31				
100	PI2 BPSK	1	271		19.44				
100	PI2 BPSK	135	0		19.38		20.5	0.0	
100	PI2 BPSK	135	69		19.43		20.5	0.0	
100	PI2 BPSK	135	138		19.43		20.5	0.0	
100	PI2 BPSK	270	0		19.45		20.5	0.0	
100	QPSK	1	1		19.45				
100	QPSK	1	137		19.45				
100	QPSK	1	271		19.36		20.5	0.0	
100	QPSK	135	0		19.34				
100	QPSK	135	69		19.38				
100	QPSK	135	138		19.31		20.5	0.0	
100	QPSK	270	0		19.37		20.5	0.0	
100	16QAM	1	1		19.34		20.5	0.0	
100	64QAM	1	1		19.41		20.5	0.0	
100	256QAM	1	1		19.40		20.5	0.0	
Channel				635000	635332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	19.34	19.42	19.53	20.5	0.0	
Channel				632698	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.34	19.39	19.35	20.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.43	19.38	19.38	20.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1	19.45	19.32	19.31	20.5	0.0	
Channel				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.31	19.30	19.42	20.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.41	19.41	19.43	20.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.41	19.32	19.39	20.5	0.0	
Channel				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.35	19.36	19.43	20.5	0.0	
Channel				630330	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3454.9	3499.98	3549.9			
15	QPSK	1	1	19.35	19.45	19.36	20.5	0.0	
Channel				630334	635332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.01	3499.98	3544.98			
10	QPSK	1	1	19.32	19.45	19.42	20.5	0.0	

Part27Q n78_Ant 4_HPUE									
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				635332		3499.98			
Frequency (MHz)				19.42					
100	PI2 BPSK	1	1		19.31		20.5	0.0	
100	PI2 BPSK	1	137		19.31				
100	PI2 BPSK	1	271		19.44				
100	PI2 BPSK	135	0		19.38		20.5	0.0	
100	PI2 BPSK	135	69		19.43		20.5	0.0	
100	PI2 BPSK	135	138		19.43		20.5	0.0	
100	PI2 BPSK	270	0		19.45		20.5	0.0	
100	QPSK	1	1		19.45				
100	QPSK	1	137		19.45				
100	QPSK	1	271		19.36		20.5	0.0	
100	QPSK	135	0		19.34				
100	QPSK	135	69		19.38				
100	QPSK	135	138		19.31		20.5	0.0	
100	QPSK	270	0		19.37		20.5	0.0	
100	16QAM	1	1		19.34		20.5	0.0	
100	64QAM	1	1		19.41		20.5	0.0	
100	256QAM	1	1		19.40		20.5	0.0	
Channel				635000	635332	635666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	19.34	19.42	19.53	20.5	0.0	
Channel				632698	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	19.34	19.39	19.35	20.5	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	19.43	19.38	19.38	20.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	19.45	19.32	19.31	20.5	0.0	
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	19.31	19.30	19.42	20.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	19.41	19.41	19.43	20.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	19.41	19.32	19.39	20.5	0.0	
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	19.35	19.36	19.43	20.5	0.0	
Channel				630330	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3454.9	3499.98	3549.9	(dBm)	(dB)	
15	QPSK	1	1	19.35	19.45	19.36	20.5	0.0	
Channel				630334	635332	636332	Tune-up limit	MPR	
Frequency (MHz)				3450.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	19.32	19.45	19.42	20.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	
Channel				Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)							
100	PI2 BPSK	1	1	23.00	3750		
100	PI2 BPSK	1	137	22.92		24.0	0.0
100	PI2 BPSK	1	271	22.91			
100	PI2 BPSK	135	0	22.93		24.0	0.0
100	PI2 BPSK	135	69	22.96		24.0	0.0
100	PI2 BPSK	135	138	22.87		24.0	0.0
100	PI2 BPSK	270	0	22.91			
100	QPSK	1	1	23.05		24.0	0.0
100	QPSK	1	137	23.04			
100	QPSK	1	271	23.03			
100	QPSK	135	0	23.02			
100	QPSK	135	69	23.04		24.0	0.0
100	QPSK	135	138	22.96			
100	QPSK	270	0	22.95		24.0	0.0
100	16QAM	1	1	22.31		24.0	0.0
100	64QAM	1	1	22.36		23.8	0.5
100	256QAM	1	1	20.58		21.5	2.5
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
90	QPSK	1	1	22.95	3750	3754.98	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
80	QPSK	1	1	22.82	3750	3756.99	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
70	QPSK	1	1	22.93	3750	3765	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
60	QPSK	1	1	22.90	3750	3764.98	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
50	QPSK	1	1	22.95	3750	3765.99	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
40	QPSK	1	1	22.95	3750	3760	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
30	QPSK	1	1	22.95	3750	3764.98	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
20	QPSK	1	1	22.95	3750	3765.99	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
15	QPSK	1	1	22.86	3750	3765.99	24.0 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
10	QPSK	1	1	22.86	3750	3765.99	24.0 0.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	
Channel				Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)							
100	PI2 BPSK	1	1	24.02	3750		
100	PI2 BPSK	1	137	23.99		25.5	0.0
100	PI2 BPSK	1	271	24.07			
100	PI2 BPSK	135	0	24.04		25.5	0.0
100	PI2 BPSK	135	69	24.02		25.5	0.0
100	PI2 BPSK	135	138	24.05		25.5	0.0
100	PI2 BPSK	270	0	24.04			
100	QPSK	1	1	24.10		25.5	0.0
100	QPSK	1	137	24.03			
100	QPSK	1	271	24.08			
100	QPSK	135	0	24.06			
100	QPSK	135	69	24.08		25.5	0.0
100	QPSK	135	138	24.05			
100	QPSK	270	0	23.53		25.0	0.5
100	16QAM	1	1	24.08		25.0	0.5
100	64QAM	1	1	22.61		23.8	2.0
100	256QAM	1	1	20.89		21.5	4.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
90	QPSK	1	1	24.03	3750	3754.98	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
80	QPSK	1	1	24.01	3750	3756.99	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
70	QPSK	1	1	24.00	3750	3765	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
60	QPSK	1	1	24.07	3750	3764.98	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
50	QPSK	1	1	24.00	3750	3765.99	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
40	QPSK	1	1	24.06	3750	3760	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
30	QPSK	1	1	24.08	3750	3764.98	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
20	QPSK	1	1	24.09	3750	3765.99	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
15	QPSK	1	1	24.00	3750	3765.99	25.5 0.0
Channel				Tune-up limit (dBm)		MPR	
Frequency (MHz)							
10	QPSK	1	1	24.05	3750	3765.99	25.5 0.0

Part27Q n78_Ant 7									
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				635332					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	23.10			24.0	0.0	
100	PI2 BPSK	1	137	23.12					
100	PI2 BPSK	1	271	23.10					
100	PI2 BPSK	135	0	23.17					
100	PI2 BPSK	135	69	23.13			24.0	0.0	
100	PI2 BPSK	135	138	23.16			24.0	0.0	
100	PI2 BPSK	270	0	23.16					
100	QPSK	1	1	23.18			24.0	0.0	
100	QPSK	1	137	23.12					
100	QPSK	1	271	23.16					
100	QPSK	135	0	23.09					
100	QPSK	135	69	23.12			24.0	0.0	
100	QPSK	135	138	23.15					
100	QPSK	270	0	23.14			24.0	0.0	
100	16QAM	1	1	23.12			24.0	0.0	
100	64QAM	1	1	23.98			23.8	0.5	
100	256QAM	1	1	21.11			21.5	2.5	
Channel				635000	635332	635666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	23.13	23.13	23.13	24.0	0.0	
Channel				632698	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	23.12	23.08	23.09	24.0	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	23.15	23.13	23.12	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	23.14	23.12	23.09	24.0	0.0	
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	23.11	23.10	23.13	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	23.16	23.09	23.04	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	23.13	23.09	23.14	24.0	0.0	
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	23.14	23.05	23.05	24.0	0.0	
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3454.9	3499.98	3542.09	(dBm)	(dB)	
15	QPSK	1	1	23.12	23.12	23.13	24.0	0.0	
Channel				630334	635332	636332	Tune-up limit	MPR	
Frequency (MHz)				3450.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	23.16	23.07	23.05	24.0	0.0	

Part27Q n78_Ant 7_HPUE									
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				635332					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	23.08			25.5	0.0	
100	PI2 BPSK	1	137	23.05					
100	PI2 BPSK	1	271	23.06					
100	PI2 BPSK	135	0	23.09					
100	PI2 BPSK	135	69	23.08			25.5	0.0	
100	PI2 BPSK	135	138	23.10					
100	PI2 BPSK	270	0	23.08			25.5	0.0	
100	QPSK	1	1	24.00					
100	QPSK	1	137	23.05					
100	QPSK	1	271	23.08					
100	QPSK	135	0	23.07			25.5	0.0	
100	QPSK	135	69	23.04					
100	QPSK	135	138	23.09			25.5	0.0	
100	QPSK	270	0	23.07			25.0	0.5	
100	16QAM	1	1	23.93					
100	64QAM	1	1	23.27			23.8	2.0	
100	256QAM	1	1	21.14			21.5	4.0	
Channel				635000	635332	635666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	23.09	23.08	23.07	25.5	0.0	
Channel				632698	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	23.05	23.08	23.03	25.5	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	23.91	23.08	23.05	25.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	23.87	23.05	23.00	25.5	0.0	
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	23.03	23.08	23.04	25.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	23.09	23.07	23.04	25.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	23.99	23.08	23.03	25.5	0.0	
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	23.98	23.05	23.06	25.5	0.0	
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3454.9	3499.98	3542.09	(dBm)	(dB)	
15	QPSK	1	1	23.95	23.02	23.05	25.5	0.0	
Channel				630334	635332	636332	Tune-up limit	MPR	
Frequency (MHz)				3450.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	23.95	23.02	23.03	25.5	0.0	



Par270 n78_Ant 8									
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				650000					
Frequency (MHz)				3750					
100	PQ2 BPSK	1	1	19.57	19.57		21.0	0.0	
100	PQ2 BPSK	1	137	19.57	19.57				
100	PQ2 BPSK	1	271	19.54	19.54				
100	PQ2 BPSK	135	0	19.56	19.56		21.0	0.0	
100	PQ2 BPSK	135	69	19.55	19.55				
100	PQ2 BPSK	135	138	19.64	19.64				
100	PQ2 BPSK	270	0	19.64	19.64		21.0	0.0	
100	QPSK	1	1	19.65	19.65				
100	QPSK	1	137	19.57	19.57				
100	QPSK	1	271	19.54	19.54		21.0	0.0	
100	QPSK	135	0	19.60	19.60				
100	QPSK	135	69	19.65	19.65				
100	QPSK	135	138	19.61	19.61		21.0	0.0	
100	QPSK	270	0	19.55	19.55				
100	16QAM	1	1	19.62	19.62		21.0	0.0	
100	64QAM	1	1	18.74	18.74	20.5			
100	256QAM	1	1	18.75	18.75	18.5			
Channel				649698	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	19.62	19.60	19.43	21.0	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1	19.51	19.56	19.52	21.0	0.0	
Channel				649500	650000	650500	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	19.58	19.63	19.58	21.0	0.0	
Channel				649698	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3750.00	3750	3760.98	(dBm)	(dB)	
60	QPSK	1	1	19.56	19.61	19.47	21.0	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3720.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	19.57	19.60	19.51	21.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	19.59	19.50	19.49	21.0	0.0	
Channel				647600	650000	652400	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3764.98	(dBm)	(dB)	
30	QPSK	1	1	19.55	19.56	19.51	21.0	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3760.99	(dBm)	(dB)	
20	QPSK	1	1	19.58	19.55	19.47	21.0	0.0	
Channel				647168	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.44	3750	3762.48	(dBm)	(dB)	
15	QPSK	1	1	19.65	19.57	19.47	21.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	19.62	19.57	19.55	21.0	0.0	

Par270 n78_Ant 8_HPUE									
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				650000					
Frequency (MHz)				3750					
100	PQ2 BPSK	1	1	21.58	21.58		23.0	0.0	
100	PQ2 BPSK	1	137	21.44	21.44				
100	PQ2 BPSK	1	271	21.53	21.53				
100	PQ2 BPSK	135	0	20.70	20.70		22.5	0.5	
100	PQ2 BPSK	135	69	21.39	21.39				
100	PQ2 BPSK	135	138	20.82	20.82				
100	PQ2 BPSK	270	0	20.78	20.78		23.0	0.0	
100	QPSK	1	1	21.60	21.60				
100	QPSK	1	137	21.52	21.52				
100	QPSK	1	271	21.54	21.54		23.0	0.0	
100	QPSK	135	0	20.17	20.17				
100	QPSK	135	69	21.28	21.28				
100	QPSK	135	138	20.32	20.32		22.0	1.0	
100	QPSK	270	0	20.23	20.23				
100	16QAM	1	1	20.28	20.28				
100	64QAM	1	1	18.74	18.74	20.5	18.5	4.5	
100	256QAM	1	1	18.75	18.75				
Channel				649698	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	21.55	21.50	21.48	23.0	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1	21.54	21.49	21.52	23.0	0.0	
Channel				649500	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	21.51	21.49	21.47	23.0	0.0	
Channel				649698	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3750.01	3750	3760.98	(dBm)	(dB)	
60	QPSK	1	1	21.59	21.51	21.49	23.0	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3720.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	21.52	21.48	21.47	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	21.51	21.51	21.47	23.0	0.0	
Channel				647600	650000	652400	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3764.98	(dBm)	(dB)	
30	QPSK	1	1	21.55	21.48	21.46	23.0	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3760.99	(dBm)	(dB)	
20	QPSK	1	1	21.58	21.48	21.46	23.0	0.0	
Channel				647168	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.44	3750	3762.48	(dBm)	(dB)	
15	QPSK	1	1	21.55	21.49	21.48	23.0	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	21.55	21.50	21.45	23.0	0.0	

Part27Q n78_Ant 8									
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				633332		3499.98			
Frequency (MHz)				18.93					
100	PI2 BPSK	1	1		18.97		20.0	0.0	
100	PI2 BPSK	1	137		18.97				
100	PI2 BPSK	1	271		18.94				
100	PI2 BPSK	135	0		18.92		20.0	0.0	
100	PI2 BPSK	135	69		18.89		20.0	0.0	
100	PI2 BPSK	135	138		18.81		20.0	0.0	
100	PI2 BPSK	270	0		18.81				
100	QPSK	1	1		18.95		20.0	0.0	
100	QPSK	1	137		18.87				
100	QPSK	1	271		18.89				
100	QPSK	135	0		18.94				
100	QPSK	135	69		18.95		20.0	0.0	
100	QPSK	135	138		18.90				
100	QPSK	270	0		18.91		20.0	0.0	
100	16QAM	1	1		18.90		20.0	0.0	
100	64QAM	1	1		18.29		19.5	0.5	
100	256QAM	1	1		18.31		17.5	2.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1		18.87	18.91	18.81	20.0	0.0
Channel				632666	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1		18.87	18.85	18.85	20.0	0.0
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1		18.81	18.80	18.78	20.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1		18.88	18.79	18.81	20.0	0.0
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1		18.87	18.85	18.80	20.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1		18.90	18.83	18.87	20.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1		18.90	18.91	18.83	20.0	0.0
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1		18.83	18.80	18.81	20.0	0.0
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3454.4	3499.98	3542.49	(dBm)	(dB)	
15	QPSK	1	1		18.90	18.83	18.82	20.0	0.0
Channel				630334	635332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1		18.86	18.75	18.83	20.0	0.0

Part27Q n78_Ant 8_HPUE									
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				633332		3499.98			
Frequency (MHz)				20.87					
100	PI2 BPSK	1	1		20.86		22.0	0.0	
100	PI2 BPSK	1	137		20.86				
100	PI2 BPSK	1	271		20.90				
100	PI2 BPSK	135	0		20.23		21.5	0.5	
100	PI2 BPSK	135	69		20.89		22.0	0.0	
100	PI2 BPSK	135	138		20.31		21.5	0.5	
100	PI2 BPSK	270	0		20.26				
100	QPSK	1	1		20.91		22.0	0.0	
100	QPSK	1	137		20.79				
100	QPSK	1	271		20.93				
100	QPSK	135	0		19.74				
100	QPSK	135	69		20.67		22.0	0.0	
100	QPSK	135	138		18.90				
100	QPSK	270	0		19.09		21.0	1.0	
100	16QAM	1	1		19.90		21.0	1.0	
100	64QAM	1	1		18.29		19.5	2.5	
100	256QAM	1	1		18.31		17.5	4.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1		20.87	20.89	20.83	22.0	0.0
Channel				632666	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1		20.80	20.84	20.80	22.0	0.0
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1		20.96	20.81	20.83	22.0	0.0
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1		20.87	20.84	20.88	22.0	0.0
Channel				631666	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3476.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1		20.83	20.84	20.85	22.0	0.0
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1		20.82	20.77	20.89	22.0	0.0
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1		20.83	20.79	20.85	22.0	0.0
Channel				630666	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1		20.87	20.83	20.84	22.0	0.0
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3454.4	3499.98	3542.49	(dBm)	(dB)	
15	QPSK	1	1		20.85	20.86	20.87	22.0	0.0
Channel				630334	635332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1		20.75	20.73	20.84	22.0	0.0



Par270 n78_Ant 10									
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				650000					
Frequency (MHz)				3750					
100	PQ2 BPSK	1	1	17.00				18.5	0.0
100	PQ2 BPSK	1	137	16.98					
100	PQ2 BPSK	1	271	17.10					
100	PQ2 BPSK	135	0	16.88					
100	PQ2 BPSK	135	69	16.99				18.5	0.0
100	PQ2 BPSK	135	138	16.98				18.5	0.0
100	PQ2 BPSK	270	0	16.97				18.5	0.0
100	QPSK	1	1	17.12				18.5	0.0
100	QPSK	1	137	16.97					
100	QPSK	1	271	17.02					
100	QPSK	135	0	17.00					
100	QPSK	135	69	17.00				18.5	0.0
100	QPSK	135	135	16.99				18.5	0.0
100	QPSK	270	0	16.98				18.5	0.0
100	16QAM	1	1	17.02				18.5	0.0
100	64QAM	1	1	17.01				18.5	0.0
100	256QAM	1	1	17.07				18.5	0.0
Channel				649698	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	17.00	16.98	16.97	18.5	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1	16.99	17.11	17.07	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	17.03	17.07	17.07	18.5	0.0	
Channel				648666	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.00	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	17.09	17.09	17.00	18.5	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	16.97	17.00	17.00	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	16.96	17.00	17.11	18.5	0.0	
Channel				647666	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	17.11	16.98	17.04	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	17.00	17.10	16.98	18.5	0.0	
Channel				647000	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.00	3750	3792.00	(dBm)	(dB)	
15	QPSK	1	1	17.01	17.05	17.09	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	17.00	16.97	17.03	18.5	0.0	

Par270 n78_Ant 10_HPUE									
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				650000					
Frequency (MHz)				3750					
100	PQ2 BPSK	1	1	17.00				18.5	0.0
100	PQ2 BPSK	1	137	16.98					
100	PQ2 BPSK	1	271	17.10					
100	PQ2 BPSK	135	0	16.88					
100	PQ2 BPSK	135	69	16.99				18.5	0.0
100	PQ2 BPSK	135	138	16.98				18.5	0.0
100	PQ2 BPSK	270	0	16.97				18.5	0.0
100	QPSK	1	1	17.12				18.5	0.0
100	QPSK	1	137	16.97					
100	QPSK	1	271	17.02					
100	QPSK	135	0	17.00					
100	QPSK	135	69	17.00				18.5	0.0
100	QPSK	135	135	16.99				18.5	0.0
100	QPSK	270	0	16.98				18.5	0.0
100	16QAM	1	1	17.02				18.5	0.0
100	64QAM	1	1	17.01				18.5	0.0
100	256QAM	1	1	17.07				18.5	0.0
Channel				649698	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	QPSK	1	1	17.00	16.98	16.97	18.5	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.99	(dBm)	(dB)	
80	QPSK	1	1	16.99	17.11	17.07	18.5	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	17.03	17.07	17.07	18.5	0.0	
Channel				648666	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.00	3750	3769.98	(dBm)	(dB)	
60	QPSK	1	1	17.09	17.09	17.00	18.5	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	16.97	17.00	17.00	18.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	16.96	17.00	17.11	18.5	0.0	
Channel				647666	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	17.11	16.98	17.04	18.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	17.00	17.10	16.98	18.5	0.0	
Channel				647000	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3707.00	3750	3792.00	(dBm)	(dB)	
15	QPSK	1	1	17.01	17.05	17.09	18.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	17.00	16.97	17.03	18.5	0.0	



Part27Q n78_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				635332					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	17.09					
100	PI2 BPSK	1	137	17.11			18.5	0.0	
100	PI2 BPSK	1	271	17.08					
100	PI2 BPSK	135	0	17.11			18.5	0.0	
100	PI2 BPSK	135	69	17.14			18.5	0.0	
100	PI2 BPSK	135	138	17.04			18.5	0.0	
100	PI2 BPSK	270	0	17.18					
100	QPSK	1	1	17.09					
100	QPSK	1	137	17.08			18.5	0.0	
100	QPSK	1	271	17.09					
100	QPSK	135	0	17.10					
100	QPSK	135	69	17.17			18.5	0.0	
100	QPSK	135	138	17.05			18.5	0.0	
100	QPSK	270	0	17.12			18.5	0.0	
100	16QAM	1	1	17.04			18.5	0.0	
100	64QAM	1	1	17.17			18.5	0.0	
100	256QAM	1	1	17.13			18.5	0.0	
Channel				635000	635332	635666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)	
90	QPSK	1	1	17.14	17.17	17.11	18.5	0.0	
Channel				632698	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	17.04	17.17	17.10	18.5	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	17.09	17.09	17.09	18.5	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	17.12	17.15	17.18	18.5	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	17.11	17.17	17.16	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	17.16	17.04	17.10	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	17.05	17.16	17.04	18.5	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	17.15	17.10	17.11	18.5	0.0	
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3454.9	3499.98	3549.9	(dBm)	(dB)	
15	QPSK	1	1	17.06	17.06	17.15	18.5	0.0	
Channel				630334	635332	636332	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.08	(dBm)	(dB)	
10	QPSK	1	1	17.12	17.10	17.10	18.5	0.0	

Part27Q n78_Ant 10_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				635332					
Frequency (MHz)				3499.98					
100	PI2 BPSK	1	1	17.09					
100	PI2 BPSK	1	137	17.11			18.5	0.0	
100	PI2 BPSK	1	271	17.08					
100	PI2 BPSK	135	0	17.11			18.5	0.0	
100	PI2 BPSK	135	69	17.14			18.5	0.0	
100	PI2 BPSK	135	138	17.04			18.5	0.0	
100	PI2 BPSK	270	0	17.18					
100	QPSK	1	1	17.09					
100	QPSK	1	137	17.08			18.5	0.0	
100	QPSK	1	271	17.09					
100	QPSK	135	0	17.10					
100	QPSK	135	69	17.17			18.5	0.0	
100	QPSK	135	138	17.05			18.5	0.0	
100	QPSK	270	0	17.12			18.5	0.0	
100	16QAM	1	1	17.04			18.5	0.0	
100	64QAM	1	1	17.17			18.5	0.0	
100	256QAM	1	1	17.13			18.5	0.0	
Channel				635000	635332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	17.14	17.17	17.11	18.5	0.0	
Channel				632698	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	17.04	17.17	17.10	18.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	17.09	17.09	17.09	18.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.99			
60	QPSK	1	1	17.12	17.15	17.16	18.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	17.11	17.17	17.16	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	17.16	17.04	17.10	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	17.05	17.16	17.04	18.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	17.15	17.10	17.11	18.5	0.0	
Channel				630300	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3454.9	3499.98	3549.9			
15	QPSK	1	1	17.06	17.06	17.15	18.5	0.0	
Channel				630334	635332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.08			
10	QPSK	1	1	17.12	17.10	17.10	18.5	0.0	



Reduced Power Mode for DSI6 + Sim

n2_Ant 0									
BW [MHz]	Modulation	RB 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	380000			
				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24	20.5	0.0	
20	PI2 BPSK	1	53	19.27	19.40	19.26			
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	5	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19	20.5	0.0	
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16			
20	QPSK	1	104	19.30	19.32	19.20	20.5	0.0	
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	16QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	64QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				371000	376000	381000			
				1867.5	1880	1902.5			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
				1865	1880	1895			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				370500	376000	381500			
				1862.5	1880	1907.5			
5	QPSK	1	1	19.21	19.44	19.22	20.5	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				372000	376000	380000			
				1860	1880	1900			
20	PI2 BPSK	1	1	19.03	19.08	19.11	20.0	0.0	
20	PI2 BPSK	1	53	19.10	19.09	19.02			
20	PI2 BPSK	1	104	19.15	19.15	19.03			
20	PI2 BPSK	50	0	19.03	19.09	19.10	20.0	0.0	
20	PI2 BPSK	50	28	19.09	19.15	19.12	20.0	0.0	
20	PI2 BPSK	50	56	19.15	19.10	19.10	20.0	0.0	
20	PI2 BPSK	100	0	19.09	19.16	19.07	20.0	0.0	
20	QPSK	1	1	19.16	19.20	19.15			
20	QPSK	1	53	19.10	19.16	19.06			
20	QPSK	1	104	19.09	19.05	19.05	20.0	0.0	
20	QPSK	50	0	19.08	19.13	19.09	20.0	0.0	
20	QPSK	50	28	19.09	19.16	19.13	20.0	0.0	
20	QPSK	50	56	19.03	19.10	19.12	20.0	0.0	
20	QPSK	100	0	19.08	19.12	19.10	20.0	0.0	
20	16QAM	1	1	19.14	19.06	19.13	20.0	0.0	
20	64QAM	1	1	19.17	19.07	19.10	20.0	0.0	
20	256QAM	1	1	19.08	19.13	19.05	19.5	0.5	
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				371500	376000	380500			
				1867.5	1880	1902.5			
15	QPSK	1	1	19.09	19.13	19.08	20.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
				1865	1880	1900			
10	QPSK	1	1	19.11	19.14	19.09	20.0	0.0	
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				370500	376000	381500			
				1862.5	1880	1907.5			
5	QPSK	1	1	19.15	19.10	19.12	20.0	0.0	

n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				166500	167300	167800			
				834	846.5	859			
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.84	22.79			
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.93	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.76	22.73			
20	QPSK	1	104	22.83	22.79	22.72	24.0	0.0	
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel									
Frequency (MHz)				166500	167300	168000	Tune-up limit (dBm)	MPR (dB)	
				831.5	846.5	861.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel									
Frequency (MHz)				166500	167300	168000	Tune-up limit (dBm)	MPR (dB)	
				839	846.5	854			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel									
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
				836.5	846.5	856.5			
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0	



n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	838			
20	P12 BPSK	1	1	22.70	22.72	22.63	24.0	0.0	
20	P12 BPSK	1	53	22.67	22.75	22.68			
20	P12 BPSK	1	104	22.70	22.73	22.63	24.0	0.0	
20	P12 BPSK	50	0	22.60	22.71	22.52			
20	P12 BPSK	50	26	22.67	22.75	22.60	24.0	0.0	
20	P12 BPSK	50	56	22.56	22.71	22.58			
20	P12 BPSK	100	0	22.56	22.64	22.55	24.0	0.0	
20	QPSK	1	1	22.73	22.76	22.65			
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0	
20	QPSK	1	104	22.57	22.68	22.50			
20	QPSK	50	0	22.61	22.66	22.52	24.0	0.0	
20	QPSK	50	26	22.62	22.72	22.57			
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0	
20	QPSK	100	0	22.60	22.64	22.49			
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0	
20	64QAM	1	1	21.34	21.45	21.37		22.5	
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5	
Channel				166300	167300	168300		Tune-up limit	
Frequency (MHz)				831.5	836.5	841.5	MPR (dB)		
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0	
Channel				165800	167300	168800		Tune-up limit	
Frequency (MHz)				829	836.5	844	MPR (dB)		
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0	
Channel				165300	167300	169300		Tune-up limit	
Frequency (MHz)				836.5	836.5	846.5	MPR (dB)		
5	QPSK	1	1	22.63	22.72	22.49	24.0	0.0	
Channel				164800	167300	170300		Tune-up limit	
Frequency (MHz)				836.5	836.5	846.5	MPR (dB)		

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	20.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	18.95	18.98	18.91	20.0	0.0	
40	P12 BPSK	1	108	18.91	18.95	18.89			
40	P12 BPSK	1	214	18.98	19.00	18.90	20.0	0.0	
40	P12 BPSK	108	0	18.95	19.04	18.99			
40	P12 BPSK	108	54	18.92	18.91	18.93	20.0	0.0	
40	P12 BPSK	108	108	18.86	18.90	18.87			
40	P12 BPSK	216	0	18.94	18.95	18.90	20.0	0.0	
40	QPSK	1	1	18.97	19.05	18.90			
40	QPSK	1	108	18.86	18.96	18.90	20.0	0.0	
40	QPSK	1	214	18.87	18.96	18.99			
40	QPSK	108	0	18.93	18.94	18.88	20.0	0.0	
40	QPSK	108	54	18.90	18.98	18.95			
40	QPSK	108	108	18.86	18.92	18.90	20.0	0.0	
40	QPSK	216	0	18.83	18.99	18.85			
40	16QAM	1	1	18.84	18.99	18.91	20.0	0.0	
40	64QAM	1	1	18.95	19.01	18.93		20.0	
40	256QAM	1	1	18.62	18.85	18.76	19.5	0.5	
Channel				503500	507000	511000		Tune-up limit	
Frequency (MHz)				2515	2535	2555	MPR (dB)		
30	QPSK	1	1	18.88	19.02	18.92	20.0	0.0	
Channel				502900	507000	511900		Tune-up limit	
Frequency (MHz)				2512.5	2535	2557.5	MPR (dB)		
25	QPSK	1	1	18.90	18.96	18.93	20.0	0.0	
Channel				502000	507000	512000		Tune-up limit	
Frequency (MHz)				2510	2535	2560	MPR (dB)		
20	QPSK	1	1	18.93	18.91	18.89	20.0	0.0	
Channel				501500	507000	512500		Tune-up limit	
Frequency (MHz)				2507.5	2535	2562.5	MPR (dB)		
15	QPSK	1	1	18.86	18.93	18.89	20.0	0.0	
Channel				501000	507000	513000		Tune-up limit	
Frequency (MHz)				2505	2535	2565	MPR (dB)		
10	QPSK	1	1	18.91	18.97	18.99	20.0	0.0	
Channel				500500	507000	513500		Tune-up limit	
Frequency (MHz)				2502.5	2535	2567.5	MPR (dB)		
5	QPSK	1	1	18.91	19.02	18.87	20.0	0.0	
Channel				500000	507000	514000		Tune-up limit	
Frequency (MHz)				2500	2535	2570	MPR (dB)		

n7_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	22.0	0.0	
Frequency (MHz)				2500	2535	2550			
40	P12 BPSK	1	1	20.99	20.96	20.97	22.0	0.0	
40	P12 BPSK	1	108	20.99	20.92	20.90			
40	P12 BPSK	1	214	20.90	20.95	20.97	22.0	0.0	
40	P12 BPSK	108	0	20.97	20.96	20.96			
40	P12 BPSK	108	54	20.88	20.98	20.96	22.0	0.0	
40	P12 BPSK	108	108	20.92	20.92	21.01			
40	P12 BPSK	216	0	20.90	21.02	20.98	22.0	0.0	
40	QPSK	1	1	21.00	21.07	21.03			
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0	
40	QPSK	1	214	20.97	20.97	21.01			
40	QPSK	108	0	20.95	20.98	20.99	22.0	0.0	
40	QPSK	108	54	20.95	21.05	21.00			
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0	
40	QPSK	216	0	20.91	21.02	20.92			
40	16QAM	1	1	20.91	20.94	20.91	22.0	0.0	
40	64QAM	1	1	20.87	20.93	20.90			
40	256QAM	1	1	20.36	20.46	20.43	21.0	1.0	
Channel				503500	507000	511000			
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm) MPR (dB)		
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0	
Channel				502900	507000	511900			
Frequency (MHz)				2512.5	2535	2557.5	Tune-up limit (dBm) MPR (dB)		
25	QPSK	1	1	20.96	21.00	20.93	22.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm) MPR (dB)		
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm) MPR (dB)		
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm) MPR (dB)		
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm) MPR (dB)		
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0	
Channel				500000	507000	514000			
Frequency (MHz)				2500	2535	2570	Tune-up limit (dBm) MPR (dB)		



n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77			
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71			
15	QPSK	1	1	22.85	22.82	22.82			
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70			
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0	
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.76	22.83	22.76			
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
15	P12 BPSK	1	1	23.31	23.36	23.34	24.0	0.0			
15	P12 BPSK	1	40	23.23	23.31	23.23					
15	P12 BPSK	1	77	23.26	23.33	23.31					
15	P12 BPSK	36	0	23.20	23.30	23.23	24.0	0.0			
15	P12 BPSK	36	22	23.22	23.33	23.25	24.0	0.0			
15	P12 BPSK	36	43	23.11	23.24	23.17	24.0	0.0			
15	P12 BPSK	75	0	23.21	23.30	23.17					
15	QPSK	1	1	23.27	23.37	23.30					
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0			
15	QPSK	1	77	23.11	23.27	23.18					
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0			
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0			
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0			
15	QPSK	75	0	23.12	23.29	23.23	24.0	0.0			
15	16QAM	1	1	23.19	23.32	23.15					
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5			
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5			
Channel											
Frequency (MHz)											
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0			

n14_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
10	P12 BPSK	1	1		22.93		24.0	0.0			
10	P12 BPSK	1	26		22.91						
10	P12 BPSK	1	55		22.89						
10	P12 BPSK	25	0		22.92		24.0	0.0			
10	P12 BPSK	25	14		22.91		24.0	0.0			
10	P12 BPSK	25	27		22.82		24.0	0.0			
10	P12 BPSK	50	0		22.84						
10	QPSK	1	1		22.93						
10	QPSK	1	26		22.84		24.0	0.0			
10	QPSK	1	50		22.89						
10	QPSK	25	0		22.93		24.0	0.0			
10	QPSK	25	14		22.95		24.0	0.0			
10	QPSK	25	27		22.84		24.0	0.0			
10	QPSK	50	0		22.84		24.0	0.0			
10	16QAM	1	1		22.89						
10	64QAM	1	1		22.22		23.0	1.0			
10	256QAM	1	1		20.05		21.0	3.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0			

n14_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				793					
Frequency (MHz)				19860					
10	P12 BPSK	1	1		22.60				
10	P12 BPSK	1	26		22.54		24.0	0.0	
10	P12 BPSK	1	50		22.54				
10	P12 BPSK	25	0		22.51		24.0	0.0	
10	P12 BPSK	25	14		22.53		24.0	0.0	
10	P12 BPSK	25	27		22.49		24.0	0.0	
10	P12 BPSK	50	0		22.51		24.0	0.0	
10	QPSK	1	1		22.62				
10	QPSK	1	26		22.50		24.0	0.0	
10	QPSK	1	50		22.55				
10	QPSK	25	0		22.49		24.0	0.0	
10	QPSK	25	14		22.57		24.0	0.0	
10	QPSK	25	27		22.50		24.0	0.0	
10	QPSK	50	0		22.54				
10	64QAM	1	1		22.49		24.0	0.0	
10	64QAM	1	1		19.89		21.0	1.0	
10	256QAM	1	1		19.89		21.0	3.0	
Channel				194180	198690	199100	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	1	22.52	22.51	22.58	24.0	0.0	

n25_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MFR (dB)	
Channel				374000		376000			
Frequency (MHz)				1919		1925.5	1965		
40	P12 BPSK	1	1		19.27	19.28	19.23		
40	P12 BPSK	1	108		19.28	19.29	19.21	20.5	0.0
40	P12 BPSK	1	214		19.29	19.25	19.28		
40	P12 BPSK	108	0		19.20	19.23	19.30	20.5	0.0
40	P12 BPSK	108	54		19.27	19.34	19.28	20.5	0.0
40	P12 BPSK	108	108		19.28	19.32	19.21		
40	P12 BPSK	216	0		19.20	19.24	19.27	20.5	0.0
40	QPSK	1	1		19.31	19.45	19.33		
40	QPSK	1	108		19.16	19.29	19.24	20.5	0.0
40	QPSK	1	214		19.24	19.32	19.31		
40	QPSK	108	0		19.26	19.34	19.29	20.5	0.0
40	QPSK	108	54		19.26	19.35	19.30	20.5	0.0
40	QPSK	108	108		19.20	19.23	19.19	20.5	0.0
40	QPSK	216	0		19.17	19.23	19.20		
40	16QAM	1	1		19.23	19.23	19.28	20.5	0.0
40	64QAM	1	1		19.17	19.37	19.25	20.5	0.0
40	256QAM	1	1		19.30	19.27	19.30	20.5	0.0
Channel				373990	376000	376000	Tune-up time (dBm)	MFR (dB)	
Frequency (MHz)				1907.5	1925.5	1937.5			
35	QPSK	1	1		19.17	19.29	19.31	20.5	0.0
Channel				373000	376000	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1865	1822.5	1800			
30	QPSK	1	1		19.23	19.28	19.30	20.5	0.0
Channel				372500	376000	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1822.5	1822.5	1822.5			
25	QPSK	1	1		19.21	19.23	19.25	20.5	0.0
Channel				372000	376000	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1860	1862.5	1805			
20	QPSK	1	1		19.16	19.37	19.29	20.5	0.0
Channel				371500	376000	376000	Tune-up time (dBm)	MFR	
Frequency (MHz)				1807.5	1862.5	1907.5			
15	QPSK	1	1		19.30	19.35	19.31	20.5	0.0
Channel				371000	376000	382000	Tune-up time (dBm)	MFR	
Frequency (MHz)				1855	1862.5	1930			
10	QPSK	1	1		19.24	19.30	19.22	20.5	0.0
Channel				370500	376000	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1822.5	1862.5	1922.5			
5	QPSK	1	1		19.19	19.28	19.24	20.5	0.0

n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MFR (dB)	
Channel				374200		376000			
Frequency (MHz)				1939		1925.5	1965		
40	P12 BPSK	1	1		18.19	18.09	18.10		
40	P12 BPSK	1	108		18.07	18.22	18.08	20.0	0.0
40	P12 BPSK	1	214		18.15	18.12	18.09		
40	P12 BPSK	108	0		18.10	18.20	18.13	20.0	0.0
40	P12 BPSK	108	54		18.07	18.22	18.11	20.0	0.0
40	P12 BPSK	108	108		18.17	18.13	18.10		
40	P12 BPSK	216	0		18.12	18.15	18.09	20.0	0.0
40	QPSK	1	1		18.22	18.24	18.20		
40	QPSK	1	108		18.16	18.21	18.11	20.0	0.0
40	QPSK	1	214		18.10	18.18	18.06		
40	QPSK	108	0		18.11	18.13	18.08	20.0	0.0
40	QPSK	108	54		18.15	18.20	18.15	20.0	0.0
40	QPSK	108	108		18.12	18.15	18.13	20.0	0.0
40	QPSK	216	0		18.09	18.13	18.05		
40	16QAM	1	1		18.12	18.15	18.10	20.0	0.0
40	64QAM	1	1		18.14	18.12	18.06	20.0	0.0
40	256QAM	1	1		17.75	17.89	17.74	19.5	0.5
Channel				373990	376000	376000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1907.5	1925.5	1937.5			
35	QPSK	1	1		18.11	18.18	18.17	20.0	0.0
Channel				373000	376000	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1865	1822.5	1800			
30	QPSK	1	1		18.19	18.16	18.11	20.0	0.0
Channel				372500	376000	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1822.5	1822.5	1822.5			
25	QPSK	1	1		18.09	18.17	18.05	20.0	0.0
Channel				372000	376000	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1860	1862.5	1805			
20	QPSK	1	1		18.14	18.13	18.14	20.0	0.0
Channel				371500	376000	376000	Tune-up time (dBm)	MFR	
Frequency (MHz)				1807.5	1862.5	1907.5			
15	QPSK	1	1		18.16	18.15	18.18	20.0	0.0
Channel				371000	376000	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1855	1862.5	1930			
10	QPSK	1	1		18.12	18.12	18.18	20.0	0.0
Channel				370500	376000	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1822.5	1862.5	1922.5			
5	QPSK	1	1		18.10	18.14	18.07	20.0	0.0

n26_Ant 0									
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				164400	166300	167800			
Frequency (MHz)				804	831.5	859			
20	P12 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.83	22.87			
20	P12 BPSK	1	104	22.85	22.79	22.88			
20	P12 BPSK	50	0	22.85	22.86	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	P12 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	P12 BPSK	100	0	22.80	22.80	22.91			
20	QPSK	1	1	22.95	22.98	23.02	24.0	0.0	
20	QPSK	1	53	22.90	22.81	22.96			
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83			
20	16QAM	1	1	22.80	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164400	166300	168300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163300	166300	168800	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.92	22.80	22.86	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				164400	166300	167600			
Frequency (MHz)				804	831.5	859			
20	P12 BPSK	1	1	22.88	22.88	22.87	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.78	22.80			
20	P12 BPSK	1	104	22.90	22.78	22.81			
20	P12 BPSK	50	0	22.85	22.87	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	P12 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	P12 BPSK	100	0	22.80	22.92	22.85			
20	QPSK	1	1	22.95	22.97	23.00	24.0	0.0	
20	QPSK	1	53	22.95	22.92	22.92			
20	QPSK	1	104	22.94	22.87	22.93			
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86			
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	64QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164400	166300	168300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				163300	166300	168800	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.85	22.87	22.90	24.0	0.0	



n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				460000	2315			
Frequency (MHz)								
10	PI2 BPSK	1	1		18.58			
10	PI2 BPSK	1	26		18.56		20.5	0.0
10	PI2 BPSK	1	50		18.58			
10	PI2 BPSK	25	0		18.53		20.5	0.0
10	PI2 BPSK	25	14		18.65		20.5	0.0
10	PI2 BPSK	25	27		18.56		20.5	0.0
10	PI2 BPSK	50	0		18.64			
10	QPSK	1	1		18.68			
10	QPSK	1	26		18.53		20.5	0.0
10	QPSK	1	50		18.63			
10	QPSK	25	0		18.53		20.5	0.0
10	QPSK	25	14		18.59		20.5	0.0
10	QPSK	25	27		18.57		20.5	0.0
10	QPSK	50	0		18.54			
10	16QAM	1	1		18.52		20.5	0.0
10	64QAM	1	1		18.62		20.5	0.0
10	256QAM	1	1		17.61		19.5	1.0
Channel				461050	460000	462000	tune-up limit	MFR
Frequency (MHz)				2307.5	2315	2312.5	(dBm)	(dB)
5	QPSK	1	1	18.64	18.60	18.58	20.5	0.0

n30_Ant 9								
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				460000	2315			
Frequency (MHz)								
10	PI2 BPSK	1	1		21.00			
10	PI2 BPSK	1	26		20.91		22.0	0.0
10	PI2 BPSK	1	50		20.90			
10	PI2 BPSK	25	0		20.77		22.0	0.0
10	PI2 BPSK	25	14		20.90		22.0	0.0
10	PI2 BPSK	25	27		20.71		22.0	0.0
10	PI2 BPSK	50	0		21.02			
10	QPSK	1	1		21.05			
10	QPSK	1	26		20.95		22.0	0.0
10	QPSK	1	50		20.89			
10	QPSK	25	0		20.96		22.0	0.0
10	QPSK	25	14		20.97		22.0	0.0
10	QPSK	25	27		20.79		22.0	0.0
10	QPSK	50	0		21.04			
10	16QAM	1	1		21.02		22.0	0.0
10	64QAM	1	1		20.93		22.0	0.0
10	256QAM	1	1		20.88		21.0	1.0
Channel				461050	460000	462000	tune-up limit	MFR
Frequency (MHz)				2307.5	2315	2312.5	(dBm)	(dB)
5	QPSK	1	1	21.04	21.00	20.98	22.0	0.0



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.95	19.98	19.95			
40	P12 BPSK	1	108	19.89	19.97	19.88	21.0		0.0
40	P12 BPSK	1	214	19.90	19.90	19.88			
40	P12 BPSK	108	0	19.86	19.99	19.94	21.0		0.0
40	P12 BPSK	108	54	19.88	20.00	19.98	21.0		0.0
40	P12 BPSK	108	108	19.87	20.03	19.88			
40	P12 BPSK	216	0	19.91	19.95	19.89	21.0		0.0
40	QPSK	1	1	19.00	19.05	19.02			
40	QPSK	1	108	19.85	20.02	19.89	21.0		0.0
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.99	19.89	21.0		0.0
40	QPSK	108	54	19.95	20.00	19.95	21.0		0.0
40	QPSK	108	108	19.91	19.97	19.93	21.0		0.0
40	QPSK	216	0	19.92	20.02	19.87			
40	64QAM	1	1	19.97	20.03	20.00	21.0		0.0
40	64QAM	1	1	19.92	20.00	20.00	21.0		0.0
40	256QAM	1	1	19.86	20.01	19.89	21.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.85	19.95	20.01	21.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.93	19.97	19.87	21.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	20.03	19.89	21.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.99	19.87	21.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.89	21.0		0.0

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.18	19.07	19.08			
40	P12 BPSK	1	108	19.09	19.17	19.08	20.0		0.0
40	P12 BPSK	1	214	19.12	19.18	19.16			
40	P12 BPSK	108	0	19.14	19.15	19.16	20.0		0.0
40	P12 BPSK	108	54	19.13	19.16	19.15	20.0		0.0
40	P12 BPSK	108	108	19.08	19.12	19.06			
40	P12 BPSK	216	0	19.17	19.19	19.16	20.0		0.0
40	QPSK	1	1	19.20	19.22	19.15			
40	QPSK	1	108	19.16	19.21	19.03	20.0		
40	QPSK	1	214	19.17	19.14	19.08			
40	QPSK	108	0	19.12	19.09	19.16	20.0		
40	QPSK	108	54	19.14	19.18	19.17	20.0		
40	QPSK	108	108	19.07	19.13	19.08	20.0		0.0
40	QPSK	216	0	19.17	19.19	19.14			
40	16QAM	1	1	19.06	19.17	19.10	20.0		
40	64QAM	1	1	19.16	19.08	19.15	20.0		0.0
40	256QAM	1	1	19.84	19.96	19.83	19.5		
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.19	19.17	19.12	20.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.16	19.10	19.10	20.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.13	19.19	19.10	20.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.13	19.09	19.12	20.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.10	19.17	19.06	20.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.18	19.12	19.03	20.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.06	19.09	19.06	20.0		0.0

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				340000	1702.5				
15	P12 BPSK	1	1		20.68				
15	P12 BPSK	1	40		20.78		22.0		0.0
15	P12 BPSK	1	77		20.72				
15	P12 BPSK	36	0		20.75		22.0		0.0
15	P12 BPSK	36	22		20.73		22.0		0.0
15	P12 BPSK	36	43		20.67		22.0		0.0
15	P12 BPSK	75	0		20.69				
15	QPSK	1	1		20.82				
15	QPSK	1	40		20.73		22.0		0.0
15	QPSK	1	77		20.73				
15	QPSK	36	0		20.68		22.0		0.0
15	QPSK	36	22		20.70		22.0		0.0
15	QPSK	36	43		20.67		22.0		0.0
15	QPSK	75	0		20.75				
15	16QAM	1	1		20.79		22.0		0.0
15	64QAM	1	1		20.74		22.0		0.0
15	256QAM	1	1		20.35		21.5		0.5
Channel									
Frequency (MHz)				340000	1700.5	341000			
10	QPSK	1	1	20.81	20.77	20.68	22.0		0.0
Channel									
Frequency (MHz)				339000	1700.5	341000			
5	QPSK	1	1	20.70	20.69	20.61	22.0		0.0



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1		340000	1702.5			
15	PI2 BPSK	1	1		20.89				
15	PI2 BPSK	1	40		20.78		21.5		0.0
15	PI2 BPSK	1	77		20.62				
15	PI2 BPSK	36	0		20.81		21.5		0.0
15	PI2 BPSK	36	22		20.82		21.5		0.0
15	PI2 BPSK	36	43		20.89		21.5		0.0
15	PI2 BPSK	75	0		20.85				
15	QPSK	1	1		20.92				
15	QPSK	1	40		20.91		21.5		0.0
15	QPSK	1	77		20.82				
15	QPSK	36	0		20.78		21.5		0.0
15	QPSK	36	22		20.91		21.5		0.0
15	QPSK	36	43		20.82		21.5		0.0
15	QPSK	75	0		20.85				
15	16QAM	1	1		20.85		21.5		0.0
15	64QAM	1	1		18.96		21.5		0.0
15	256QAM	1	1		20.79		19.5		2.0
Channel									
Frequency (MHz)									
10	QPSK	1	1		340000	340100	1700.5		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1		20.87	20.82	20.83	21.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1		339500	339550	341000	1702.5	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1		20.85	20.83	20.84	21.5	0.0

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	PI2 BPSK	1	80	23.01	23.04	22.92			
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.96	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0	
30	QPSK	80	0	22.89	22.93	22.91			
30	QPSK	80	40	22.91	22.96	22.93			
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.86	24.0	0.0	
30	16QAM	1	1	22.80	22.83	22.83			
30	64QAM	1	1	22.40	22.55	22.41			
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.90	136100	136100	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	136100	136800	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	PI2 BPSK	1	80	23.15	23.16	23.10			
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.09	23.09	23.11			
30	QPSK	80	40	23.13	23.19	23.17			
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14			
30	64QAM	1	1	21.97	22.03	21.98			
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	Tune-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	Tune-up time (dBm)	MPR (dB)	



n38_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
				Frequency (MHz)	25600.0	2595	2599.98				
40	Pl2 BPSK	1	1	19.19	19.31	19.39	21.0	0.0			
40	Pl2 BPSK	1	53	19.22	19.37	19.25					
40	Pl2 BPSK	1	104	19.22	19.35	19.19					
40	Pl2 BPSK	50	0	19.11	19.28	19.30					
40	Pl2 BPSK	50	26	19.21	19.33	19.18	21.0	0.0			
40	Pl2 BPSK	50	56	19.15	19.24	19.25	21.0	0.0			
40	Pl2 BPSK	100	0	19.28	19.19	19.25					
40	QPSK	1	1	19.34	19.42	19.30					
40	QPSK	1	53	19.23	19.23	19.25					
40	QPSK	1	104	19.15	19.28	19.21	21.0	0.0			
40	QPSK	50	0	19.16	19.30	19.22					
40	QPSK	50	26	19.26	19.24	19.25					
40	QPSK	50	56	19.20	19.28	19.17					
40	QPSK	100	0	19.26	19.35	19.18	21.0	0.0			
40	16QAM	1	1	19.27	19.27	19.32	21.0	0.0			
40	16QAM	1	1	19.17	19.22	19.26	21.0	0.0			
40	256QAM	1	1	19.44	19.55	19.43	19.5	1.5			
Channel											
Frequency (MHz)											
30	QPSK	1	1	19.31	19.39	19.18	21.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	19.22	19.30	19.20	21.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	19.25	19.29	19.19	21.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	19.26	19.32	19.23	21.0	0.0			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
40	Pl2 BPSK	1	1	21.36	21.45	21.36	22.5	0.0			
40	Pl2 BPSK	1	53	21.33	21.41	21.41					
40	Pl2 BPSK	1	104	21.33	21.42	21.29					
40	Pl2 BPSK	50	0	21.30	21.46	21.38					
40	Pl2 BPSK	50	26	21.39	21.47	21.38	22.5	0.0			
40	Pl2 BPSK	50	56	21.37	21.47	21.32	22.5	0.0			
40	Pl2 BPSK	100	0	21.30	21.35	21.35					
40	QPSK	1	1	21.44	21.49	21.42					
40	QPSK	1	53	21.36	21.46	21.40					
40	QPSK	1	104	21.39	21.42	21.41	22.5	0.0			
40	QPSK	50	0	21.33	21.40	21.32					
40	QPSK	50	26	21.36	21.42	21.34					
40	QPSK	50	56	21.30	21.40	21.28					
40	QPSK	100	0	21.30	21.40	21.38	22.5	0.0			
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0			
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0			
40	256QAM	1	1	20.91	20.94	20.92	21.5	1.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0			

n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	19.29	19.42	19.40	21.0	0.0	
100	Pl2 BPSK	1	137	19.27	19.44	19.34			
100	Pl2 BPSK	1	271	19.29	19.38	19.31			
100	Pl2 BPSK	135	0	19.26	19.32	19.35			
100	Pl2 BPSK	135	66	19.11	19.39	19.30	21.0	0.0	
100	Pl2 BPSK	135	136	19.28	19.35	19.30	21.0	0.0	
100	Pl2 BPSK	270	0	19.36	19.33	19.28			
100	QPSK	1	1	19.30	19.40	19.42			
100	QPSK	1	137	19.31	19.37	19.31			
100	QPSK	1	271	19.28	19.40	19.37	21.0	0.0	
100	QPSK	135	0	19.24	19.37	19.32			
100	QPSK	135	66	19.31	19.40	19.36			
100	QPSK	135	136	19.29	19.31	19.31			
100	QPSK	270	0	19.34	19.36	19.28	21.0	0.0	
100	16QAM	1	1	19.36	19.38	19.37	21.0	0.0	
100	16QAM	1	1	19.24	19.36	19.31	21.0	0.0	
100	256QAM	1	1	19.35	19.31	19.36	21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.38	19.34	19.37	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.30	19.35	19.27	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.30	19.39	19.28	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.33	19.40	19.27	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.33	19.32	19.32	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.38	19.32	19.34	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.34	19.40	19.34	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.38	19.35	19.38	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.38	19.31	19.31	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.31	19.42	19.38	21.0	0.0	

n41_Ant 1_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518098	536000			
Frequency (MHz)				2540.01	2552.99	2560			
100	PQ2 BPSK	1	1	19.20	19.42	19.40			
100	PQ2 BPSK	1	137	19.27	19.44	19.34	21.0	0.0	
100	PQ2 BPSK	1	271	19.29	19.38	19.31			
100	PQ2 BPSK	135	0	19.26	19.32	19.35	21.0	0.0	
100	PQ2 BPSK	135	69	19.31	19.39	19.30	21.0	0.0	
100	PQ2 BPSK	135	138	19.28	19.35	19.30	21.0	0.0	
100	PQ2 BPSK	270	0	19.36	19.33	19.28			
100	QPSK	1	1	19.30	19.45	19.42			
100	QPSK	1	137	19.31	19.37	19.31	21.0	0.0	
100	QPSK	1	271	19.28	19.40	19.37			
100	QPSK	135	0	19.24	19.37	19.32			
100	QPSK	135	69	19.31	19.40	19.35	21.0	0.0	
100	QPSK	135	138	19.20	19.31	19.31			
100	QPSK	270	0	19.34	19.36	19.28	21.0	0.0	
100	16QAM	1	1	19.36	19.38	19.37	21.0	0.0	
100	64QAM	1	1	19.24	19.36	19.31	21.0	0.0	
100	256QAM	1	1	19.35	19.31	19.36	21.0	0.0	
Channel				506000	518098	536006	Tune-up limit	MPR	
Frequency (MHz)				2541	2552.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	19.38	19.34	19.37	21.0	0.0	
Channel				507204	518098	536008	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2562.99	2548.99	(dBm)	(dB)	
80	QPSK	1	1	19.30	19.35	19.27	21.0	0.0	
Channel				505002	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2562.99	2565	(dBm)	(dB)	
70	QPSK	1	1	19.30	19.39	19.28	21.0	0.0	
Channel				505000	518098	537006	Tune-up limit	MPR	
Frequency (MHz)				2534	2562.99	2564.98	(dBm)	(dB)	
60	QPSK	1	1	19.33	19.40	19.27	21.0	0.0	
Channel				504204	518098	535998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2562.99	2564.99	(dBm)	(dB)	
50	QPSK	1	1	19.33	19.32	19.32	21.0	0.0	
Channel				503002	518098	536000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2562.99	2570	(dBm)	(dB)	
40	QPSK	1	1	19.30	19.32	19.34	21.0	0.0	
Channel				502200	518098	535998	Tune-up limit	MPR	
Frequency (MHz)				2511	2562.99	2574.98	(dBm)	(dB)	
30	QPSK	1	1	19.34	19.40	19.34	21.0	0.0	
Channel				507004	518098	537006	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2562.99	2579.99	(dBm)	(dB)	
20	QPSK	1	1	19.38	19.35	19.38	21.0	0.0	
Channel				500700	518098	536498	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2562.99	2564.48	(dBm)	(dB)	
15	QPSK	1	1	19.38	19.31	19.31	21.0	0.0	
Channel				500002	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2562.99	2565	(dBm)	(dB)	
10	QPSK	1	1	19.31	19.42	19.38	21.0	0.0	



n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 506002	Power Mid Ch. / Freq. 518598	Power High Ch. / Freq. 526000	Tune-up limit (dBm)	MPR (dB)	
Channel					2545.01	2592.99	2540		
Frequency (MHz)					2541.01	2592.99			
100	PQ2 BPSK	1	1	20.31	20.44	20.29			
100	PQ2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PQ2 BPSK	1	271	20.21	20.27	20.22			
100	PQ2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0	
100	PQ2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0	
100	PQ2 BPSK	135	138	20.11	20.23	20.21			
100	PQ2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.05	20.24	20.19			
100	QPSK	135	0	20.15	20.31	20.13			
100	QPSK	135	69	20.05	20.39	20.24	22.0	0.0	
100	QPSK	135	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	19.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.03	18.26	18.11	20.0	2.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98			
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel				507502	518598	531003	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel				502000	518598	531005	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel				504204	518598	532008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.25	20.46	20.33	22.0	0.0	
Channel				502205	518598	535005	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel				507204	518598	535005	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506000	518598	526000			
Frequency (MHz)				2546.01	2592.99	2540			
100	PQ2 BPSK	1	1	22.43	22.49	22.22			
100	PQ2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0	
100	PQ2 BPSK	1	271	22.19	22.23	22.21			
100	PQ2 BPSK	135	0	21.88	21.99	21.86	23.5	0.5	
100	PQ2 BPSK	135	69	22.08	22.10	22.08	24.0	0.0	
100	PQ2 BPSK	135	138	21.75	21.89	21.69	23.5	0.5	
100	PQ2 BPSK	270	0	21.75	21.85	21.74			
100	QPSK	1	1	22.43	22.51	22.44			
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0	
100	QPSK	1	271	22.08	22.18	22.12			
100	QPSK	135	0	21.83	21.92	21.83			
100	QPSK	135	69	22.07	22.06	22.04	24.0	0.0	
100	QPSK	135	138	21.45	21.46	21.34			
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0	
100	16QAM	1	1	21.68	21.83	21.68	23.0	1.0	
100	64QAM	1	1	20.31	20.32	20.29	21.5	2.5	
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541.01	2592.99	2644.98			
90	QPSK	1	1	22.33	22.35	22.12	24.0	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.36	22.43	22.11	24.0	0.0	
Channel				507502	518598	531003	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0	
Channel				502000	518598	531005	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524.01	2592.99	2659.98			
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0	
Channel				504204	518598	532008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98			
50	QPSK	1	1	22.35	22.43	22.15	24.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.34	22.36	22.21	24.0	0.0	
Channel				502205	518598	535005	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511.01	2592.99	2674.98			
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0	
Channel				507204	518598	535005	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.51	2592.99	2682.48			
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2201.01	2592.99	2685			
10	QPSK	1	1	22.37	22.34	22.15	24.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506000	518598	526000		
Frequency (MHz)				2540.01	2592.99	2540		
100	PQ2 BPSK	1	1	23.08	23.15	22.97	24.0	0.0
100	PQ2 BPSK	1	137	22.97	23.06	22.86		
100	PQ2 BPSK	1	271	22.81	22.89	22.86	24.0	0.0
100	PQ2 BPSK	135	0	22.96	23.11	22.86		
100	PQ2 BPSK	135	69	23.00	23.15	22.90	24.0	0.0
100	PQ2 BPSK	135	138	22.74	22.88	22.80		
100	PQ2 BPSK	270	0	22.96	23.05	22.84	24.0	0.0
100	QPSK	1	1	22.97	23.18	22.84		
100	QPSK	1	137	22.96	23.06	22.83	24.0	0.0
100	QPSK	1	271	22.90	22.91	22.79		
100	QPSK	135	0	22.92	23.04	22.79	24.0	0.0
100	QPSK	135	69	22.97	23.09	22.79		
100	QPSK	135	138	22.82	22.75	22.64	24.0	0.0
100	QPSK	270	0	22.88	22.72	22.61		
100	16QAM	1	1	22.91	23.07	22.86	24.0	0.0
100	64QAM	1	1	21.80	21.91	21.86		
100	256QAM	1	1	19.85	19.79	19.73	22.5	1.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)
90	QPSK	1	1	22.93	23.10	22.88	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2549.99	(dBm)	(dB)
80	QPSK	1	1	22.98	23.10	22.80	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2555	(dBm)	(dB)
70	QPSK	1	1	23.02	23.05	23.01	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2608.98	(dBm)	(dB)
60	QPSK	1	1	22.92	23.05	22.86	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2604.99	(dBm)	(dB)
50	QPSK	1	1	22.99	23.12	22.89	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)
40	QPSK	1	1	22.96	23.07	22.86	24.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.98	23.06	22.89	24.0	0.0
Channel				501204	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.90	23.12	22.85	24.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	22.99	23.04	22.88	24.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	22.85	23.05	22.85	24.0	0.0

n41_Ant 5_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2540		
100	PQ2 BPSK	1	1	23.08	23.15	22.97	24.5	0.0
100	PQ2 BPSK	1	137	22.97	23.06	22.87		
100	PQ2 BPSK	1	271	22.81	22.89	22.86	24.5	0.0
100	PQ2 BPSK	135	0	22.96	23.11	22.86		
100	PQ2 BPSK	135	69	23.00	23.15	22.90	24.5	0.0
100	PQ2 BPSK	135	138	22.74	22.88	22.80		
100	PQ2 BPSK	270	0	22.96	23.05	22.84	24.5	0.0
100	QPSK	1	1	22.97	23.18	22.84		
100	QPSK	1	137	22.95	23.06	22.83	24.5	0.0
100	QPSK	1	271	22.90	22.91	22.79		
100	QPSK	135	0	22.92	23.04	22.79	24.5	0.0
100	QPSK	135	69	22.97	23.09	22.79		
100	QPSK	135	138	22.82	22.75	22.64	24.5	0.0
100	QPSK	270	0	22.88	22.72	22.61		
100	16QAM	1	1	22.91	23.07	22.86	24.5	0.0
100	64QAM	1	1	21.80	21.91	21.86	22.5	2.0
100	256QAM	1	1	19.88	19.79	19.73	20.5	4.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)
90	QPSK	1	1	22.93	23.10	22.88	24.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2549.99	(dBm)	(dB)
80	QPSK	1	1	22.98	23.10	22.80	24.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2555	(dBm)	(dB)
70	QPSK	1	1	23.02	23.05	23.01	24.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2608.98	(dBm)	(dB)
60	QPSK	1	1	22.92	23.05	22.86	24.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2604.99	(dBm)	(dB)
50	QPSK	1	1	22.99	23.12	22.89	24.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2570	(dBm)	(dB)
40	QPSK	1	1	22.96	23.07	22.86	24.5	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.98	23.06	22.89	24.5	0.0
Channel				501204	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.90	23.12	22.85	24.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	22.99	23.04	22.88	24.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	22.85	23.05	22.85	24.5	0.0

n41_Ant 6								
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				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MPR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532698	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.92	22.5	0.0
Channel				502200	518098	535098	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532698	Tune-up limit	MPR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536498	Tune-up limit	MPR
Frequency (MHz)				2603.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506002	518098	537000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	536000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535596	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	



n41_Ant 9									
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				506000	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.53	21.53	21.45			
100	PQ2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PQ2 BPSK	1	271	21.52	21.53	21.41			
100	PQ2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PQ2 BPSK	135	69	21.43	21.49	21.43	22.5	0.0	
100	PQ2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PQ2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.53	21.53	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.53	21.59	21.44	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				507204	518598	531000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.51	21.45	21.45	22.5	0.0	

n41_Ant 9_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.53	21.53	21.45			
100	PQ2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PQ2 BPSK	1	271	21.52	21.53	21.41			
100	PQ2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PQ2 BPSK	135	69	21.43	21.49	21.43	22.5	0.0	
100	PQ2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PQ2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.53	21.53	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.53	21.59	21.44	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.51	21.58	21.48	22.5	0.0	
Channel				507204	518598	531000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655			
70	QPSK	1	1	21.48	21.47	21.48	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.40	21.45	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				507204	518598	532998	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2517.01	2592.99	2685			
10	QPSK	1	1	21.51	21.45	21.45	22.5	0.0	



n48_FCC_Part96_Ant 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				6370	3634.99	3679.98			
40	PQ2 BPSK	1	1	17.81	17.87	17.77			
40	PQ2 BPSK	1	53	17.82	17.83	17.80	19.0	0.0	
40	PQ2 BPSK	1	104	17.87	17.83	17.83			
40	PQ2 BPSK	50	0	17.78	17.83	17.81	19.0	0.0	
40	PQ2 BPSK	50	26	17.85	17.85	17.83	19.0	0.0	
40	PQ2 BPSK	50	56	17.87	17.87	17.84			
40	PQ2 BPSK	100	0	17.83	17.83	17.76	19.0	0.0	
40	QPSK	1	1	17.88	17.85	17.80			
40	QPSK	1	53	17.77	17.85	17.86	19.0	0.0	
40	QPSK	1	104	17.83	17.81	17.88			
40	QPSK	50	0	17.80	17.85	17.78			
40	QPSK	50	26	17.85	17.89	17.84	19.0	0.0	
40	QPSK	50	56	17.82	17.89	17.80			
40	QPSK	100	0	17.82	17.88	17.85	19.0	0.0	
40	16QAM	1	1	17.85	17.80	17.85	19.0	0.0	
40	64QAM	1	1	17.82	17.89	17.86	19.0	0.0	
40	256QAM	1	1	17.75	17.92	17.82	19.0	0.0	
Channel				637668	641666	646666	Tune-up limit	MPR	
Frequency (MHz)				3693.02	3634.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	17.85	17.87	17.75	19.0	0.0	
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3660.01	3624.99	3660	(dBm)	(dB)	
20	QPSK	1	1	17.76	17.92	17.83	19.0	0.0	
Channel				637050	641666	646332	Tune-up limit	MPR	
Frequency (MHz)				3655	3624.99	3664.98	(dBm)	(dB)	
10	QPSK	1	1	17.81	17.90	17.79	19.0	0.0	

n48_FCC_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	646332			
Frequency (MHz)				6370	3634.99	3679.98			
40	PQ2 BPSK	1	1	17.69	17.84	17.73			
40	PQ2 BPSK	1	53	17.63	17.80	17.79	19.0	0.0	
40	PQ2 BPSK	1	104	17.66	17.76	17.71			
40	PQ2 BPSK	50	0	17.63	17.70	17.71	19.0	0.0	
40	PQ2 BPSK	50	26	17.70	17.81	17.74	19.0	0.0	
40	PQ2 BPSK	50	56	17.72	17.71	17.79			
40	PQ2 BPSK	100	0	17.68	17.76	17.73	19.0	0.0	
40	QPSK	1	1	17.76	17.85	17.80			
40	QPSK	1	53	17.63	17.82	17.71	19.0	0.0	
40	QPSK	1	104	17.62	17.78	17.68			
40	QPSK	50	0	17.66	17.81	17.69			
40	QPSK	50	26	17.75	17.82	17.76	19.0	0.0	
40	QPSK	50	56	17.62	17.75	17.73			
40	QPSK	100	0	17.71	17.77	17.69	19.0	0.0	
40	16QAM	1	1	17.70	17.78	17.72	19.0	0.0	
40	64QAM	1	1	17.73	17.76	17.77	19.0	0.0	
40	256QAM	1	1	17.75	17.78	17.69	19.0	0.0	
Channel				637668	641666	646666	Tune-up limit	MPR	
Frequency (MHz)				3693.02	3634.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	17.71	17.72	17.68	19.0	0.0	
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3660.01	3624.99	3660	(dBm)	(dB)	
20	QPSK	1	1	17.68	17.73	17.67	19.0	0.0	
Channel				637050	641666	646332	Tune-up limit	MPR	
Frequency (MHz)				3655	3624.99	3664.98	(dBm)	(dB)	
10	QPSK	1	1	17.74	17.77	17.77	19.0	0.0	



n48_FCC_Part96_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Max Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				325.9	323.99	325.98			
40	Pl2 BPSK	1	1	21.27	21.53	20.99	22.5	0.0	
40	Pl2 BPSK	1	53	20.76	20.88	20.84			
40	Pl2 BPSK	1	104	21.07	21.22	21.14			
40	Pl2 BPSK	50	0	20.71	20.70	20.70	22.5	0.0	
40	Pl2 BPSK	50	26	21.33	21.26	21.25	22.5	0.0	
40	Pl2 BPSK	50	56	20.65	20.65	20.66			
40	Pl2 BPSK	100	0	20.61	20.68	20.67			
40	QPSK	1	1	21.30	21.48	21.40	22.5	0.0	
40	QPSK	1	53	21.33	21.35	21.20			
40	QPSK	1	104	21.10	21.17	21.07			
40	QPSK	50	0	20.72	20.80	20.78	22.5	0.0	
40	QPSK	50	26	21.26	21.26	21.26			
40	QPSK	50	56	20.69	20.74	20.66			
40	QPSK	100	0	20.61	20.71	20.64	22.0	0.5	
40	16QAM	1	1	19.89	20.03	19.99	21.5	1.0	
40	16QAM	1	1	19.29	19.37	19.27	20.0	2.5	
40	256QAM	1	1	19.96	19.97	19.72	19.0	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3694.99	(dB)		
30	QPSK	1	1	21.24	21.47	21.43	22.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dB)		
20	QPSK	1	1	21.30	21.44	21.45	22.5	0.0	
Channel				637000	641666	643332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98	(dB)		
10	QPSK	1	1	21.30	21.44	21.40	22.5	0.0	

n48_FCC_Part96_Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq	Power Max Ch. F Freq	Power High Ch. F Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				325.9	323.99	325.98			
40	Pl2 BPSK	1	1	18.37	18.49	18.32	19.5	0.0	
40	Pl2 BPSK	1	53	18.34	18.36	18.36			
40	Pl2 BPSK	1	104	18.29	18.36	18.33			
40	Pl2 BPSK	50	0	18.32	18.46	18.44	19.5	0.0	
40	Pl2 BPSK	50	26	18.33	18.43	18.32	19.5	0.0	
40	Pl2 BPSK	50	56	18.31	18.44	18.42			
40	Pl2 BPSK	100	0	18.30	18.49	18.32			
40	QPSK	1	1	18.42	18.50	18.46	19.5	0.0	
40	QPSK	1	53	18.40	18.42	18.42			
40	QPSK	1	104	18.31	18.37	18.36			
40	QPSK	50	0	18.28	18.42	18.36	19.5	0.0	
40	QPSK	50	26	18.46	18.47	18.44			
40	QPSK	50	56	18.39	18.45	18.39			
40	QPSK	100	0	18.29	18.45	18.34	19.5	0.0	
40	16QAM	1	1	18.37	18.41	18.37	19.5	0.0	
40	16QAM	1	1	18.28	18.46	18.34	19.5	0.0	
40	256QAM	1	1	18.39	18.45	18.31	19.5	0.0	
Channel				637668	641666	646666	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565.02	3624.99	3694.99	(dB)		
30	QPSK	1	1	18.39	18.42	18.45	19.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dB)		
20	QPSK	1	1	18.41	18.35	18.32	19.5	0.0	
Channel				637000	641666	643332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3565	3624.99	3694.98	(dB)		
10	QPSK	1	1	18.38	18.40	18.32	19.5	0.0	

Par270 n77_Ant 4									
BW (MHz)	Modulation	RBI Size	RBI Offset	Power Low Ch1 (dBm)	Power Middle Ch2 (dBm)	Power High Ch3 (dBm)	Turn-up limit (dBm)	MPR (dB)	
Channel									
100	QPSK	1	1	18.53	18.60	19.00			
100	QPSK	1	137	19.05	19.01	19.49	19.5	0.0	
100	QPSK	1	271	18.51	18.64	18.61			
100	QPSK	135	0	18.50	18.62	18.56	19.5	0.0	
100	QPSK	135	49	19.52	19.64	19.64	19.5	0.0	
100	QPSK	135	138	19.55	19.56	19.52	19.5	0.0	
100	QPSK	270	0	19.49	19.58	19.53	19.5	0.0	
100	QPSK	1	1	18.63	18.71	18.64			
100	QPSK	1	137	19.58	19.63	19.60	19.5	0.0	
100	QPSK	1	271	19.58	19.67	19.61			
100	QPSK	135	0	18.64	18.67	18.60			
100	QPSK	135	49	19.60	19.68	19.60	19.5	0.0	
100	QPSK	135	138	19.59	19.57	19.53	19.5	0.0	
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0	
100	16QAM	1	1	18.54	18.56	18.41	19.5	0.0	
100	16QAM	1	137	19.54	19.56	19.52	19.5	0.0	
100	16QAM	1	271	18.54	18.57	18.44	19.5	0.0	
200	16QAM	1	1	18.54	18.57	18.44	19.5	0.0	
Channel									
100	QPSK	1	1	18.669	18.6900	18.6232	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6232	19.6232	19.6198	19.5	0.0	
Channel									
100	QPSK	1	1	18.61	18.62	18.61	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6101	19.6000	19.6096	19.5	0.0	
100	QPSK	1	271	18.61	18.61	18.60	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6099	19.6099	19.6200	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	270	0	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	1	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	137	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	1	271	18.60	18.57	18.68	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6201	19.6000	19.6099	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6201	19.6000	19.6099	19.5	0.0	
100	QPSK	1	1	18.58	18.56	18.56	19.5	0.0	
100	QPSK	1	137	19.58	19.58	19.58	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	271	18.58	18.56	18.56	19.5	0.0	
100	QPSK	135	0	18.57	18.62	18.70	19.5	0.0	
100	QPSK	135	49	19.6198	19.6000	19.6432	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6198	19.6000	19.6432	19.5	0.0	
100	QPSK	270	0	18.57	18.68	18.64	19.5	0.0	
100	QPSK	1	1	18.57	18.68	18.64	19.5	0.0	
100	QPSK	1	137	19.58	19.63	19.60	19.5	0.0	
100	QPSK	1	271	19.58	19.67	19.61			
100	QPSK	135	0	18.64	18.67	18.60			
100	QPSK	135	49	19.60	19.68	19.60	19.5	0.0	
100	QPSK	135	138	19.59	19.57	19.53	19.5	0.0	
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0	
100	QPSK	1	1	18.54	18.56	18.41	19.5	0.0	
100	QPSK	1	137	19.54	19.56	19.52	19.5	0.0	
100	QPSK	1	271	18.54	18.57	18.44	19.5	0.0	
200	QPSK	1	1	18.54	18.57	18.44	19.5	0.0	
Channel									
100	QPSK	1	1	18.669	18.6900	18.6232	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6232	19.6232	19.6198	19.5	0.0	
Channel									
100	QPSK	1	1	18.61	18.62	18.61	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6101	19.6000	19.6096	19.5	0.0	
100	QPSK	1	271	18.61	18.61	18.60	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6099	19.6099	19.6200	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	270	0	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	1	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	137	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	1	271	18.60	18.57	18.68	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6201	19.6000	19.6099	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6201	19.6000	19.6099	19.5	0.0	
100	QPSK	1	1	18.58	18.56	18.56	19.5	0.0	
100	QPSK	1	137	19.58	19.58	19.58	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	271	18.58	18.56	18.56	19.5	0.0	
100	QPSK	135	0	18.57	18.62	18.70	19.5	0.0	
100	QPSK	135	49	19.6198	19.6000	19.6432	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6198	19.6000	19.6432	19.5	0.0	
100	QPSK	270	0	18.57	18.68	18.64	19.5	0.0	
100	QPSK	1	1	18.57	18.68	18.64	19.5	0.0	
100	QPSK	1	137	19.58	19.63	19.60	19.5	0.0	
100	QPSK	1	271	19.58	19.67	19.61			
100	QPSK	135	0	18.64	18.67	18.60			
100	QPSK	135	49	19.60	19.68	19.60	19.5	0.0	
100	QPSK	135	138	19.59	19.57	19.53	19.5	0.0	
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0	
100	QPSK	1	1	18.54	18.56	18.41	19.5	0.0	
100	QPSK	1	137	19.54	19.56	19.52	19.5	0.0	
100	QPSK	1	271	18.54	18.57	18.44	19.5	0.0	
200	QPSK	1	1	18.54	18.57	18.44	19.5	0.0	
Channel									
100	QPSK	1	1	18.669	18.6900	18.6232	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6232	19.6232	19.6198	19.5	0.0	
Channel									
100	QPSK	1	1	18.61	18.62	18.61	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6101	19.6000	19.6096	19.5	0.0	
100	QPSK	1	271	18.61	18.61	18.60	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6099	19.6099	19.6200	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	270	0	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	1	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	137	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	1	271	18.60	18.57	18.68	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6201	19.6000	19.6099	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6201	19.6000	19.6099	19.5	0.0	
100	QPSK	1	1	18.58	18.56	18.56	19.5	0.0	
100	QPSK	1	137	19.58	19.58	19.58	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	271	18.58	18.56	18.56	19.5	0.0	
100	QPSK	135	0	18.57	18.62	18.70	19.5	0.0	
100	QPSK	135	49	19.6198	19.6000	19.6432	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6198	19.6000	19.6432	19.5	0.0	
100	QPSK	270	0	18.57	18.68	18.64	19.5	0.0	
100	QPSK	1	1	18.57	18.68	18.64	19.5	0.0	
100	QPSK	1	137	19.58	19.63	19.60	19.5	0.0	
100	QPSK	1	271	19.58	19.67	19.61			
100	QPSK	135	0	18.64	18.67	18.60			
100	QPSK	135	49	19.60	19.68	19.60	19.5	0.0	
100	QPSK	135	138	19.59	19.57	19.53	19.5	0.0	
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0	
100	QPSK	1	1	18.54	18.56	18.41	19.5	0.0	
100	QPSK	1	137	19.54	19.56	19.52	19.5	0.0	
100	QPSK	1	271	18.54	18.57	18.44	19.5	0.0	
200	QPSK	1	1	18.54	18.57	18.44	19.5	0.0	
Channel									
100	QPSK	1	1	18.669	18.6900	18.6232	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6232	19.6232	19.6198	19.5	0.0	
Channel									
100	QPSK	1	1	18.61	18.62	18.61	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	137	19.6101	19.6000	19.6096	19.5	0.0	
100	QPSK	1	271	18.61	18.61	18.60	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6099	19.6099	19.6200	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	270	0	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	1	18.60	18.57	18.70	19.5	0.0	
100	QPSK	1	137	19.6099	19.6099	19.6099	19.5	0.0	
100	QPSK	1	271	18.60	18.57	18.68	19.5	0.0	
100	QPSK	135	0	18.58	18.61	18.66	19.5	0.0	
100	QPSK	135	49	19.6201	19.6000	19.6099	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6201	19.6000	19.6099	19.5	0.0	
100	QPSK	1	1	18.58	18.56	18.56	19.5	0.0	
100	QPSK	1	137	19.58	19.58	19.58	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	1	271	18.58	18.56	18.56	19.5	0.0	
100	QPSK	135	0	18.57	18.62	18.70	19.5	0.0	
100	QPSK	135	49	19.6198	19.6000	19.6432	Turn-up limit (dBm)	MPR (dB)	
100	QPSK	135	138	19.6198	19.6000	19.6432	19.5	0.0	
100	QPSK	270	0	18.57	18.68	18.64	19.5	0.0	
100									

Par270 n77_Ant 4_HPUE								
RFV [MHz]	Modulation	RB Size	RB Offset	Power Low [mW]	Power Middle [mW]	Power High [mW]	Turn-up limit (dBm)	MPR (dB)
Channel				67600	69600	66000		
Frequency [MHz]				3760	3440	3900		
100	QPSK	1	1	18.53	18.61	18.44		
100	QPSK	1	137	19.55	19.61	19.49	19.5	0.0
100	QPSK	1	271	18.51	18.64	18.61		
100	QPSK	135	0	18.50	18.62	18.56	19.5	0.0
100	QPSK	135	49	19.52	19.64	19.48	19.5	0.0
100	QPSK	135	138	18.55	18.56	18.52	19.5	0.0
100	QPSK	270	0	19.49	19.58	19.53	19.5	0.0
100	QPSK	1	1	18.63	18.71	18.54		
100	QPSK	1	137	19.56	19.63	19.60		
100	QPSK	1	271	19.58	19.67	19.61		
100	QPSK	135	0	18.64	18.67	18.60		
100	QPSK	135	49	19.57	19.63	19.57	19.5	0.0
100	QPSK	135	138	19.59	19.67	19.53		
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0
100	16QAM	1	1	18.54	18.56	18.41	19.5	0.0
100	16QAM	1	137	19.51	19.58	19.52	19.5	0.0
100	16QAM	1	271	19.54	19.57	19.44	19.5	0.0
100	16QAM	135	0	19.54	19.57	19.44	19.5	0.0
Channel				64968	65960	66232	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3760	3440	3900		
80	QPSK	1	1	18.61	18.62	18.63	19.5	0.0
Channel				64934	65960	66096	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3740.01	3440	3899.99		
80	QPSK	1	1	19.58	19.61	18.66	19.5	0.0
Channel				6735	3440	3945	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3735	3440	3945		
70	QPSK	1	1	18.60	18.57	18.70	19.5	0.0
Channel				64968	65960	66232	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3730.02	3440	3949.98		
60	QPSK	1	1	19.58	19.57	19.68	19.5	0.0
Channel				64934	65960	66096	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3730.01	3440	3949.99		
50	QPSK	1	1	19.58	19.56	19.56	19.5	0.0
Channel				64800	65960	66400	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3725	3440	3950		
40	QPSK	1	1	19.57	18.62	18.70	19.5	0.0
Channel				64768	65960	66432	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3716.02	3440.00	3904.98		
30	QPSK	1	1	18.62	18.60	18.63	19.5	0.0
Channel				64733	65960	66495	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3710.01	3440	3909.99		
20	QPSK	1	1	18.57	18.68	18.64	19.5	0.0
Channel				64764	65960	66424	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3707.02	3440	3912.98		
15	QPSK	1	1	18.66	18.63	18.62	19.5	0.0
Channel				64700	65960	66300	Turn-up limit (dBm)	MPR (dB)
Frequency [MHz]				3705	3440	3915		
10	QPSK	1	1	18.66	18.58	18.70	19.5	0.0

Par27Q n77_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Qu / Freq	Power Middle Qu / Freq	Power High Qu / Freq	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3499.08			
100	Pv2 BPSK	1	1	18.51	18.51			
100	Pv2 BPSK	1	137	18.80	18.80		19.5	0.0
100	Pv2 BPSK	135	0	18.51	18.51		19.5	0.0
100	Pv2 BPSK	135	69	18.59	18.59		19.5	0.0
100	Pv2 BPSK	135	136	18.61	18.61		19.5	0.0
100	Pv2 BPSK	270	0	18.42	18.42		19.5	0.0
100	QPSK	1	1	18.80	18.80			
100	QPSK	1	137	18.59	18.59		19.5	0.0
100	QPSK	1	271	18.48	18.48			
100	QPSK	135	0	18.47	18.47			
100	QPSK	135	69	18.56	18.56		19.5	0.0
100	QPSK	135	136	18.54	18.54		19.5	0.0
100	QPSK	270	0	18.54	18.54		19.5	0.0
100	16QAM	1	1	18.47	18.47		19.5	0.0
100	16QAM	1	1	18.56	18.56		19.5	0.0
100	256QAM	1	1	18.60	18.60		19.5	0.0
Channel								
	Frequency (MHz)			633000	633332	633666	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	18.48	18.58	18.48	19.5	0.0
Channel								
	Frequency (MHz)			630668	633332	633000	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	3495.02	3499.08	3500.00	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			3494.01	3499.08	3514.08	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	18.50	18.48	18.59	19.5	0.0
Channel								
	Frequency (MHz)			3480	3499.08	3519.99	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	18.47	18.80	18.47	19.5	0.0
Channel								
	Frequency (MHz)			331668	633332	635000	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	3495.02	3499.08	3500.00	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	18.48	18.50	18.61	19.5	0.0
Channel								
	Frequency (MHz)			631336	633332	635332	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	18.60	18.51	18.50	19.5	0.0
Channel								
	Frequency (MHz)			631000	633332	635666	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	3495	3499.08	3524.99	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			630668	633332	636000	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	18.51	18.52	18.54	19.5	0.0
Channel								
	Frequency (MHz)			3497.5	3499.08	3542.49	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	18.50	18.49	18.58	19.5	0.0
Channel								
	Frequency (MHz)			3495.02	3499.08	3544.98	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	18.53	18.55	18.47	19.5	0.0



Par27Q n77_Ant 4_HPUE												
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	18.53	18.53		19.5	0.0				
100	PQ2 BPSK	1	137	18.60								
100	PQ2 BPSK	1	271	18.51								
100	PQ2 BPSK	135	0	18.59			19.5	0.0				
100	PQ2 BPSK	135	69	18.59								
100	PQ2 BPSK	135	138	18.61								
100	PQ2 BPSK	270	0	18.49			19.5	0.0				
100	QPSK	1	1	18.62								
100	QPSK	1	137	18.59								
100	QPSK	1	271	18.48			19.5	0.0				
100	QPSK	135	0	18.47								
100	QPSK	135	69	18.59								
100	QPSK	135	138	18.54			19.5	0.0				
100	QPSK	270	0	18.54								
100	16QAM	1	1	18.47						19.5		
100	64QAM	1	1	18.56								
100	256QAM	1	1	18.60								
Channel												
Frequency (MHz)												
90	QPSK	1	1	18.54	18.54	18.48	19.5	0.0				
Channel												
Frequency (MHz)												
80	QPSK	1	1	18.60	18.49	18.50	19.5	0.0				
Channel												
Frequency (MHz)												
70	QPSK	1	1	18.51	18.48	18.57	19.5	0.0				
Channel												
Frequency (MHz)												
60	QPSK	1	1	18.50	18.48	18.59	19.5	0.0				
Channel												
Frequency (MHz)												
50	QPSK	1	1	18.47	18.60	18.47	19.5	0.0				
Channel												
Frequency (MHz)												
40	QPSK	1	1	18.45	18.50	18.61	19.5	0.0				
Channel												
Frequency (MHz)												
30	QPSK	1	1	18.43	18.53	18.57	19.5	0.0				
Channel												
Frequency (MHz)												
20	QPSK	1	1	18.51	18.52	18.54	19.5	0.0				
Channel												
Frequency (MHz)												
15	QPSK	1	1	18.50	18.49	18.58	19.5	0.0				
Channel												
Frequency (MHz)												
10	QPSK	1	1	18.53	18.55	18.47	19.5	0.0				
Channel												
Frequency (MHz)												

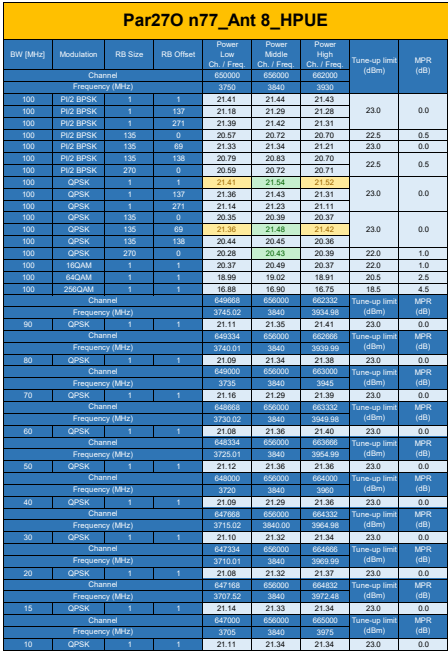
Par270 n77_Ant 7												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
100	PQ2 BPSK	1	1	22.92	23.09	23.01	24.0	0.0				
100	PQ2 BPSK	1	137	22.99	23.07	22.93						
100	PQ2 BPSK	1	271	22.92	23.03	22.61						
100	PQ2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0				
100	PQ2 BPSK	135	69	23.05	23.07	23.00						
100	PQ2 BPSK	135	138	22.79	22.89	22.81						
100	PQ2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0				
100	QPSK	1	1	23.02	23.16	22.96						
100	QPSK	1	137	22.92	23.09	22.93						
100	QPSK	1	271	22.91	23.02	22.83	24.0	0.0				
100	QPSK	135	0	22.90	22.97	22.80						
100	QPSK	135	69	23.02	23.13	22.94						
100	QPSK	135	138	22.84	22.89	22.87	24.0	0.0				
100	QPSK	270	0	22.86	23.02	22.76						
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0				
100	64QAM	1	1	22.37	22.49	22.31		23.5				
100	256QAM	1	1	20.47	20.49	20.36		21.5				
Channel												
Frequency (MHz)												
90	QPSK	1	1	22.85	23.11	22.77	24.0	0.0				
Channel												
Frequency (MHz)												
80	QPSK	1	1	22.86	23.01	22.79	24.0	0.0				
Channel												
Frequency (MHz)												
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0				
Channel												
Frequency (MHz)												
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0				
Channel												
Frequency (MHz)												
50	QPSK	1	1	22.90	22.96	22.76	24.0	0.0				
Channel												
Frequency (MHz)												
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0				
Channel												
Frequency (MHz)												
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0				
Channel												
Frequency (MHz)												
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0				
Channel												
Frequency (MHz)												
15	QPSK	1	1	22.85	23.01	22.76	24.0	0.0				
Channel												
Frequency (MHz)												
10	QPSK	1	1	22.93	22.97	22.83	24.0	0.0				
Channel												
Frequency (MHz)												

Par270 n77_Ant 7_HPUE									
BW (MHz)	Modulation	RB 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	PQ2 BPSK	1	1	22.82	23.09	23.01	24.0	0.0	
100	PQ2 BPSK	1	137	22.99	23.07	22.93			
100	PQ2 BPSK	1	271	22.92	23.03	22.61			
100	PQ2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0	
100	PQ2 BPSK	135	69	23.05	23.07	23.00			
100	PQ2 BPSK	135	138	22.79	22.89	22.81			
100	PQ2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0	
100	QPSK	1	1	23.02	23.16	22.96			
100	QPSK	1	137	22.92	23.09	22.93			
100	QPSK	1	271	22.91	23.02	22.83	24.0	0.0	
100	QPSK	135	0	22.90	22.97	22.80			
100	QPSK	135	69	23.04	23.13	22.94			
100	QPSK	135	138	22.84	22.89	22.87	24.0	0.0	
100	QPSK	270	0	22.86	23.02	22.76			
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0	
100	64QAM	1	1	22.37	22.49	22.31	23.0	1.0	
100	256QAM	1	1	20.41	20.48	20.38	21.0	3.0	
Frequency (MHz)				648668	656000	662532	Time-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.58	23.11	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.96	23.01	22.97	24.0	0.0	
Frequency (MHz)				648334	656000	662666	Time-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.96	23.04	22.78	24.0	0.0	
Frequency (MHz)				648334	656000	662666	Time-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0	
Channel				648334	656000	662666	Time-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	23.04	23.04	22.94	24.0	0.0	
Frequency (MHz)				648334	656000	662666	Time-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.98	23.00	22.94	24.0	0.0	
Frequency (MHz)				647868	656000	664332	Time-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	23.07	23.07	22.98	24.0	0.0	
Channel				647334	656000	664666	Time-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.87	23.08	22.69	24.0	0.0	
Frequency (MHz)				647334	656000	664666	Time-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.85	23.01	22.76	24.0	0.0	
Frequency (MHz)				647334	656000	662666	Time-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.93	22.97	22.83	24.0	0.0	

Par27Q n77_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PiZ BPSK	1	1	3499.58	635352			
100	PiZ BPSK	1	1	22.23			24.0	0.0
100	PiZ BPSK	1	137	23.06				
100	PiZ BPSK	1	231	23.04				
100	PiZ BPSK	135	0	22.84			24.0	0.0
100	PiZ BPSK	135	69	22.83			24.0	0.0
100	PiZ BPSK	135	138	22.85			24.0	0.0
100	PiZ BPSK	270	0	22.81			24.0	0.0
100	QPSK	1	1	22.89				
100	QPSK	1	137	22.89			24.0	0.0
100	QPSK	1	271	22.70				
100	QPSK	135	0	22.70			24.0	0.0
100	QPSK	135	69	22.66				
100	QPSK	135	138	22.78			24.0	0.0
100	QPSK	270	0	22.81			24.0	0.0
100	HQAM	1	1	20.82			24.0	0.0
100	HQAM	1	137	22.76			24.0	0.0
100	256QAM	1	1	21.65			21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	630000	633532	636968	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495.02	3499.98	3510	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.06	23.07	23.10	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	630000	633532	636968	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.07	23.11	23.06	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631698	633532	635000	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	3475.02	3489.98	3505	Turn-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.11	23.11	23.09	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.06	23.07	23.07	24.0	0.0

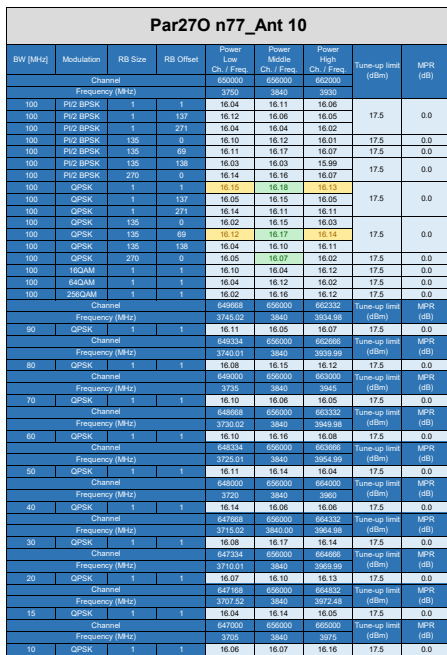
Par27Q n77_Ant 7_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				3469.98			
100	PSSBPSK	1	1	23.72				
100	PSSBPSK	1	137	23.72			24.0	0.0
100	PSSBPSK	1	271	23.72			24.0	0.0
100	PSSBPSK	135	0	22.84			24.0	0.0
100	PSSBPSK	135	69	22.83			24.0	0.0
100	PSSBPSK	135	138	23.05			24.0	0.0
100	PSSBPSK	270	0	22.91			24.0	0.0
100	QPSK	1	1	23.12				
100	QPSK	1	137	22.88			24.0	0.0
100	QPSK	1	271	22.70			24.0	0.0
100	QPSK	135	0	22.70				
100	QPSK	135	69	22.85			24.0	0.0
100	QPSK	135	138	22.78			24.0	0.0
100	QPSK	270	0	22.81			24.0	0.0
100	16QAM	1	1	22.82			24.0	0.0
100	16QAM	1	1	22.78			24.0	0.0
100	256QAM	1	1	20.65			21.0	3.0
Channel								
	Frequency (MHz)			633000	633332	633668	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	1	23.09	23.10	23.07	24.0	0.0
Channel								
	Frequency (MHz)			3465.02	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
80	QPSK	1	1	23.08	23.07	23.10	24.0	0.0
Channel								
	Frequency (MHz)			3468.01	3469.98	3471.98	Turn-up time (dBm)	MPR (dB)
70	QPSK	1	1	23.11	23.11	23.10	24.0	0.0
Channel								
	Frequency (MHz)			3469.00	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
60	QPSK	1	1	23.07	23.11	23.06	24.0	0.0
Channel								
	Frequency (MHz)			3467.99	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
50	QPSK	1	1	23.08	23.05	23.08	24.0	0.0
Channel								
	Frequency (MHz)			3467.98	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	23.11	23.10	23.07	24.0	0.0
Channel								
	Frequency (MHz)			3466.97	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
30	QPSK	1	1	23.11	23.08	23.08	24.0	0.0
Channel								
	Frequency (MHz)			3465.96	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
	Frequency (MHz)			3464.95	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	1	23.11	23.11	23.07	24.0	0.0
Channel								
	Frequency (MHz)			3463.94	3469.98	3470.98	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	1	23.06	23.07	23.07	24.0	0.0

Par270 n77_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Low 650000	Power Middle Ch. 2 Low 656000	Power High Ch. 3 Low 662000	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PSK	1	1	17.40	18.40	19.30			
100	PS2 BPSK	1	137	19.52	19.45	19.39	21.0	0.0	
100	PS2 BPSK	1	1	19.46	19.54	19.32			
100	PS2 BPSK	135	0	19.48	19.47	19.42	21.0	0.0	
100	PS2 BPSK	135	136	19.48	19.53	19.33	21.0	0.0	
100	PS2 BPSK	135	136	19.44	19.55	19.46			
100	PS2 BPSK	270	0	19.43	19.44	19.39	21.0	0.0	
100	QPSK	1	1	19.53	19.58	19.47			
100	QPSK	1	137	19.42	19.50	19.42	21.0	0.0	
100	QPSK	1	271	19.42	19.56	19.38			
100	QPSK	135	0	19.40	19.52	19.43			
100	QPSK	135	136	19.46	19.57	19.44	21.0	0.0	
100	QPSK	135	136	19.42	19.42	19.40			
100	QPSK	270	0	19.48	19.49	19.35	21.0	0.0	
100	16QAM	1	1	19.43	19.51	19.43	21.0	0.0	
100	16QAM	1	137	19.56	19.49	19.37	20.8	0.0	
100	256QAM	1	1	18.82	19.00	18.80	18.5	2.5	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.42	19.46	19.37	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.50	19.36	19.32	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.40	19.30	19.44	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.52	19.51	19.34	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.40	19.50	19.45	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.51	19.57	19.30	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.44	19.43	19.32	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.48	19.45	19.38	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.40	19.43	19.37	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.43	19.47	19.33	21.0	0.0	



Par27Q n77_Ant 8								
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 2 Freq.	Power High Ch. 3 Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			63300	63332	63366		
100	P2 BPSK	1	1	18.54	18.54	18.54		
100	P2 BPSK	1	137	18.93	18.93	18.93	20.5	0.0
100	P2 BPSK	135	0	18.90	18.90	18.90	20.5	0.0
100	P2 BPSK	135	69	18.93	18.93	18.93	20.5	0.0
100	P2 BPSK	135	138	18.90	18.90	18.90	20.5	0.0
100	P2 BPSK	270	0	18.95	18.95	18.95	20.5	0.0
100	QPSK	1	1	18.95	18.95	18.95		
100	QPSK	1	137	18.93	18.93	18.93	20.5	0.0
100	QPSK	1	271	18.93	18.93	18.93	20.5	0.0
100	QPSK	135	0	18.87	18.87	18.87		
100	QPSK	135	69	18.90	18.90	18.90	20.5	0.0
100	QPSK	135	138	18.91	18.91	18.91	20.5	0.0
100	QPSK	270	0	18.98	18.98	18.98	20.5	0.0
100	16QAM	1	1	19.34	19.34	19.34	20.5	0.0
100	16QAM	1	1	19.48	19.48	19.48	20.5	0.0
100	256QAM	1	1	19.38	19.38	19.38	18.0	2.5
Channel								
	Frequency (MHz)			63300	63332	63366	Turn-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.85	18.83	18.82	20.5	0.0
Channel								
	Frequency (MHz)			63068	63332	63300	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3406.02	3499.98	3510	20.5	0.0
Channel								
	Frequency (MHz)			63401	63332	63300	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.86	18.85	18.77	20.5	0.0
Channel								
	Frequency (MHz)			63000	63332	63300	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3401.01	3499.98	3510	20.5	0.0
Channel								
	Frequency (MHz)			3400	3499.98	3510	20.5	0.0
50	QPSK	1	1	18.86	18.87	18.78	20.5	0.0
Channel								
	Frequency (MHz)			631668	63332	63000	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3407.02	3499.98	3510	20.5	0.0
Channel								
	Frequency (MHz)			18.91	18.93	18.86	20.5	0.0
30	QPSK	1	1	631334	63332	636302	Turn-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			18.91	18.98	18.87	20.5	0.0
20	QPSK	1	1	18.94	18.93	18.85	20.5	0.0
Channel								
	Frequency (MHz)			631000	63332	636608	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3405	3499.98	3524.98	20.5	0.0
Channel								
	Frequency (MHz)			630668	63332	630000	Turn-up limit (dBm)	MPR (dB)
0	QPSK	1	1	3406.02	3499.98	3501	20.5	0.0

Par27Q n77_Ant 8_HPUE								
RFW (MHz)	Modulation	RB Size	RB Offset	Power Low Qc / Freq.	Power Middle Qc / Freq.	Power High Qc / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				636332		3469.08		
100	P2-8PSK	1	1	20.90				
100	P2-8PSK	1	137	20.93			22.5	0.0
100	P2-8PSK	135	0	20.35			22.0	0.5
100	P2-8PSK	135	69	20.86			22.5	0.0
100	P2-8PSK	135	136	20.32			22.0	0.5
100	P2-8PSK	270	0	20.30				
100	QPSK	1	1	20.92			22.5	0.0
100	QPSK	1	137	20.92				
100	QPSK	1	271	20.90				
100	QPSK	135	0	18.78				
100	QPSK	135	69	20.82			22.5	0.0
100	QPSK	135	136	19.80				
100	QPSK	270	0	18.76			21.5	1.0
100	16QAM	1	1	18.99			21.5	1.0
100	16QAM	1	1	18.46			20.0	2.5
100	256QAM	1	1	16.38			18.0	4.5
Channel								
Frequency (MHz)				633000	633332	633608	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.91	3469.08	3469.08	22.5	0.0
Channel								
Frequency (MHz)				632668	633332	634000	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3460.02	3469.08	3460.00	22.5	0.0
Channel								
Frequency (MHz)				63485.01	633332	634332	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3468.01	3469.08	3454.08	22.5	0.0
Channel								
Frequency (MHz)				634000	633332	633500	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0
Channel								
Frequency (MHz)				631668	633332	633000	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3475.00	3469.08	3452.00	22.5	0.0
Channel								
Frequency (MHz)				631334	633332	633532	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.91	20.93	20.89	22.5	0.0
Channel								
Frequency (MHz)				631000	633332	633608	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.93	20.92	20.93	22.5	0.0
Channel								
Frequency (MHz)				3460	3469.08	3434.00	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.96	20.98	20.90	22.5	0.0
Channel								
Frequency (MHz)				345600	633332	633800	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3467.0	3469.08	3542.00	22.5	0.0
Channel								
Frequency (MHz)				632000	633332	633500	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.94	20.89	20.97	22.5	0.0



Par270 n77_Ant 10_HPUe									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freqs	Power Middle Ch. / Freqs	Power High Ch. / Freqs	Turn-up time (dbm)	MPR (db)	
Channel									
				Frequency (MHz)	3750	3840	3930		
100	P2 PSK	1	1	18.04	16.11	16.08			
100	P2 BPSK	1	1	18.02	16.06	16.05	17.5	0.0	
100	P2 BPSK	1	221	18.04	16.04	16.02			
100	P2 BPSK	136	0	16.10	16.12	16.01	17.5	0.0	
100	P2 BPSK	136	69	16.11	16.17	16.07	17.5	0.0	
100	P2 BPSK	136	136	16.03	16.05	15.99			
100	P2 BPSK	270	0	16.14	16.16	16.07	17.5	0.0	
100	QPSK	1	1	16.10	16.18	16.13			
100	QPSK	1	137	16.05	16.15	16.05	17.5	0.0	
100	QPSK	1	271	16.14	16.11	16.11			
100	QPSK	136	0	16.02	16.15	16.03			
100	QPSK	136	69	16.12	16.17	16.14	17.5	0.0	
100	QPSK	136	136	16.03	16.06	16.11			
100	QPSK	270	0	16.05	16.07	16.02	17.5	0.0	
100	16QAM	1	1	16.10	16.04	16.12	17.5	0.0	
100	64QAM	1	1	16.04	16.12	16.12	17.5	0.0	
100	256QAM	1	1	16.02	16.16	16.11	17.5	0.0	
Channel									
				Frequency (MHz)	649600	650000	650232	Turn-up time (dbm)	MPR (db)
90	QPSK	1	1	3745.02	3840	3934.98			
90	QPSK	1	1	16.11	16.05	16.07	17.5	0.0	
Channel									
				Frequency (MHz)	37450.01	38400	39349.99	Turn-up time (dbm)	MPR (db)
80	QPSK	1	1	16.08	16.15	16.12	17.5	0.0	
80	QPSK	1	1	16.09	16.12	16.10	17.5	0.0	
80	QPSK	1	1	3735	3840	3945			
70	QPSK	1	1	16.10	16.06	16.05	17.5	0.0	
Channel									
				Frequency (MHz)	648968	650000	650332	Turn-up time (dbm)	MPR (db)
60	QPSK	1	1	3740	3840	3940.98			
60	QPSK	1	1	16.10	16.16	16.08	17.5	0.0	
Channel									
				Frequency (MHz)	648334	650000	650666	Turn-up time (dbm)	MPR (db)
40	QPSK	1	1	3740.01	3840	3940.99			
40	QPSK	1	1	16.11	16.14	16.04	17.5	0.0	
Channel									
				Frequency (MHz)	648800	650000	650400	Turn-up time (dbm)	MPR (db)
40	QPSK	1	1	3720	3840	3960			
40	QPSK	1	1	16.14	16.09	16.05	17.5	0.0	
Channel									
				Frequency (MHz)	647678	650000	650432	Turn-up time (dbm)	MPR (db)
30	QPSK	1	1	3715.02	3840.00	3964.98			
30	QPSK	1	1	16.06	16.17	16.14	17.5	0.0	
Channel									
				Frequency (MHz)	3710.01	3840	3969.99	Turn-up time (dbm)	MPR (db)
20	QPSK	1	1	16.07	16.10	16.13	17.5	0.0	
Channel									
				Frequency (MHz)	647180	650000	650000	Turn-up time (dbm)	MPR (db)
15	QPSK	1	1	3707.52	3840	3972.48			
15	QPSK	1	1	16.04	16.14	16.05	17.5	0.0	
Channel									
				Frequency (MHz)	647000	650000	650000	Turn-up time (dbm)	MPR (db)
10	QPSK	1	1	3700	3840	3980			
10	QPSK	1	1	16.06	16.07	16.16	17.5	0.0	

Par27Q n77_Ant 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Turn-on time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Plz2 BPSK	1	1	16.05				
100	Plz2 BPSK	1	137	16.05			17.5	0.0
100	Plz2 BPSK	1	271	16.05				
100	Plz2 BPSK	136	6	16.06			17.5	0.0
100	Plz2 BPSK	135	69	16.06			17.5	0.0
100	Plz2 BPSK	135	188	16.06			17.5	0.0
100	Plz2 BPSK	270	0	16.03				
100	QPSK	1	1	16.16				
100	QPSK	1	137	16.08			17.5	0.0
100	QPSK	1	271	16.14				
100	QPSK	136	0	16.08				
100	QPSK	135	69	16.12			17.5	0.0
100	QPSK	135	188	16.08			17.5	0.0
100	QPSK	270	0	16.04				
100	16QAM	1	1	16.14			17.5	0.0
100	16QAM	1	137	16.02			17.5	0.0
100	16QAM	1	271	16.11			17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.14	16.02	16.05	Turn-up time (dBm)	MPR (dB)
90	QPSK	1	137	16.13	16.03	16.03	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	16.01	16.07	16.05	17.5	0.0	
80	QPSK	1	16.01	16.07	16.05	17.5	0.0	
80	QPSK	1	16.01	16.07	16.05	17.5	0.0	
70	QPSK	1	16.13	16.08	16.02	17.5	0.0	
Channel								
Frequency (MHz)								
60	QPSK	1	16.14	16.09	16.13	17.5	0.0	
60	QPSK	1	16.14	16.09	16.13	17.5	0.0	
60	QPSK	1	16.14	16.09	16.13	17.5	0.0	
50	QPSK	1	1	16.06	16.07	16.07	17.5	0.0
50	QPSK	1	1	16.06	16.07	16.07	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	137	16.02	16.09	16.08	17.5	0.0
40	QPSK	1	271	16.02	16.09	16.08	17.5	0.0
40	QPSK	136	0	16.04	16.09	16.09	17.5	0.0
40	QPSK	135	69	16.07	16.09	16.09	17.5	0.0
40	QPSK	135	188	16.07	16.09	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	137	16.01	16.04	16.09	17.5	0.0
40	QPSK	1	271	16.01	16.04	16.09	17.5	0.0
40	QPSK	136	0	16.02	16.04	16.09	17.5	0.0
40	QPSK	135	69	16.05	16.04	16.09	17.5	0.0
40	QPSK	135	188	16.05	16.04	16.09	17.5	0.0
40	QPSK	270	0	16.01	16.04	16.09	Turn-up time (dBm)	MPR (



Par27Q n77_Ant 10_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
							Tune-up limit (dBm) MPR (dB)
Channel				633332	633332		
Frequency (MHz)				3493.98			
100	PQ2 BPSK	1	1	16.05			17.5 0.0
100	PQ2 BPSK	1	137	16.05			
100	PQ2 BPSK	1	271	16.06			
100	PQ2 BPSK	135	0	16.05			17.5 0.0
100	PQ2 BPSK	135	69	16.06			17.5 0.0
100	PQ2 BPSK	135	138	16.14			17.5 0.0
100	PQ2 BPSK	270	0	16.03			
100	QPSK	1	1	16.15			
100	QPSK	1	137	16.06			17.5 0.0
100	QPSK	1	271	16.14			
100	QPSK	135	0	16.09			
100	QPSK	135	69	16.12			17.5 0.0
100	QPSK	135	138	16.06			
100	QPSK	270	0	16.04			17.5 0.0
100	16QAM	1	1	16.14			17.5 0.0
100	64QAM	1	1	16.02			17.5 0.0
100	256QAM	1	1	16.11			17.5 0.0
Channel				633000	633332	633666	Tune-up limit MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm) (dB)
90	QPSK	1	1	16.14	16.02	16.05	17.5 0.0
Channel				632668	633332	634000	Tune-up limit MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm) (dB)
80	QPSK	1	1	16.01	16.07	16.05	17.5 0.0
Channel				633332	633332	633332	Tune-up limit MPR
Frequency (MHz)				3495.01	3499.98	3514.98	(dBm) (dB)
70	QPSK	1	1	16.13	16.08	16.02	17.5 0.0
Channel				632000	633332	634666	Tune-up limit MPR
Frequency (MHz)				3485	3499.98	3519.98	(dBm) (dB)
60	QPSK	1	1	16.14	16.09	16.13	17.5 0.0
Channel				631668	633332	635000	Tune-up limit MPR
Frequency (MHz)				3479.02	3499.98	3520	(dBm) (dB)
50	QPSK	1	1	16.05	16.07	16.07	17.5 0.0
Channel				631334	633332	635332	Tune-up limit MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm) (dB)
40	QPSK	1	1	16.01	16.04	16.09	17.5 0.0
Channel				631000	633332	635666	Tune-up limit MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm) (dB)
30	QPSK	1	1	16.07	16.01	16.03	17.5 0.0
Channel				630668	633332	636000	Tune-up limit MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm) (dB)
20	QPSK	1	1	16.06	16.12	16.11	17.5 0.0
Channel				630000	633332	636332	Tune-up limit MPR
Frequency (MHz)				3450	3499.98	3544.99	(dBm) (dB)
15	QPSK	1	1	16.12	16.06	16.03	17.5 0.0
Channel				630334	633332	636666	Tune-up limit MPR
Frequency (MHz)				3455.01	3499.98	3548.98	(dBm) (dB)
10	QPSK	1	1	16.04	16.02	16.01	17.5 0.0

Par270 n78_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
							Tune-up limit (dBm) MPR (dB)
Channel				650000	650000		
Frequency (MHz)				3750			
100	PQ2 BPSK	1	1	18.44			19.5 0.0
100	PQ2 BPSK	1	137	18.45			
100	PQ2 BPSK	1	271	18.38			
100	PQ2 BPSK	135	0	18.38			19.5 0.0
100	PQ2 BPSK	135	69	18.42			19.5 0.0
100	PQ2 BPSK	135	138	18.49			19.5 0.0
100	PQ2 BPSK	270	0	18.44			
100	QPSK	1	1	18.52			
100	QPSK	1	137	18.39			19.5 0.0
100	QPSK	1	271	18.40			
100	QPSK	135	0	18.49			
100	QPSK	135	69	18.50			19.5 0.0
100	QPSK	135	138	18.37			
100	QPSK	270	0	18.48			19.5 0.0
100	16QAM	1	1	18.40			19.5 0.0
100	64QAM	1	1	18.48			19.5 0.0
100	256QAM	1	1	18.45			19.5 0.0
Channel				649668	650000	650332	Tune-up limit MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm) (dB)
90	QPSK	1	1	18.37	18.43	18.42	19.5 0.0
Channel				649334	650000	650666	Tune-up limit MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm) (dB)
80	QPSK	1	1	18.38	18.39	18.37	19.5 0.0
Channel				649000	650000	651000	Tune-up limit MPR
Frequency (MHz)				3735	3750	3765	(dBm) (dB)
70	QPSK	1	1	18.44	18.39	18.41	19.5 0.0
Channel				648668	650000	651332	Tune-up limit MPR
Frequency (MHz)				3730.02	3750	3764.98	(dBm) (dB)
60	QPSK	1	1	18.51	18.48	18.44	19.5 0.0
Channel				648334	650000	651666	Tune-up limit MPR
Frequency (MHz)				3725.01	3750	3771.99	(dBm) (dB)
50	QPSK	1	1	18.51	18.40	18.42	19.5 0.0
Channel				648000	650000	652000	Tune-up limit MPR
Frequency (MHz)				3720	3750	3780	(dBm) (dB)
40	QPSK	1	1	18.40	18.37	18.50	19.5 0.0
Channel				647668	650000	652332	Tune-up limit MPR
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm) (dB)
30	QPSK	1	1	18.48	18.47	18.37	19.5 0.0
Channel				647334	650000	652666	Tune-up limit MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm) (dB)
20	QPSK	1	1	18.51	18.45	18.47	19.5 0.0
Channel				647000	650000	652992	Tune-up limit MPR
Frequency (MHz)				3707.95	3750	3792.48	(dBm) (dB)
15	QPSK	1	1	18.49	18.42	18.44	19.5 0.0
Channel				647000	650000	653000	Tune-up limit MPR
Frequency (MHz)				3705	3750	3795	(dBm) (dB)
10	QPSK	1	1	18.37	18.42	18.50	19.5 0.0

Par270 n78_Ant 4_HPUE							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
							Tune-up limit (dBm) MPR (dB)
Channel				650000	650000		
Frequency (MHz)				3750			
100	PQ2 BPSK	1	1	18.44			19.5 0.0
100	PQ2 BPSK	1	137	18.45			
100	PQ2 BPSK	1	271	18.38			
100	PQ2 BPSK	135	0	18.38			19.5 0.0
100	PQ2 BPSK	135	69	18.42			19.5 0.0
100	PQ2 BPSK	135	138	18.49			19.5 0.0
100	PQ2 BPSK	270	0	18.44			
100	QPSK	1	1	18.52			
100	QPSK	1	137	18.39			19.5 0.0
100	QPSK	1	271	18.40			
100	QPSK	135	0	18.49			
100	QPSK	135	69	18.50			19.5 0.0
100	QPSK	135	138	18.37			
100	QPSK	270	0	18.48			19.5 0.0
100	16QAM	1	1	18.40			19.5 0.0
100	64QAM	1	1	18.48			19.5 0.0
100	256QAM	1	1	18.45			19.5 0.0
Channel				649668	650000	650332	Tune-up limit MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm) (dB)
90	QPSK	1	1	18.37	18.43	18.42	19.5 0.0
Channel				649334	650000	650666	Tune-up limit MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm) (dB)
80	QPSK	1	1	18.38	18.39	18.37	19.5 0.0
Channel				649000	650000	651000	Tune-up limit MPR
Frequency (MHz)				3735	3750	3765	(dBm) (dB)
70	QPSK	1	1	18.44	18.39	18.41	19.5 0.0
Channel				648668	650000	651332	Tune-up limit MPR
Frequency (MHz)				3730.02	3750	3764.98	(dBm) (dB)
60	QPSK	1	1	18.51	18.48	18.44	19.5 0.0
Channel				648334	650000	651666	Tune-up limit MPR
Frequency (MHz)				3725.01	3750	3771.99	(dBm) (dB)
50	QPSK	1	1	18.51	18.40	18.42	19.5 0.0
Channel				648000	650000	652000	Tune-up limit MPR
Frequency (MHz)				3720	3750	3780	(dBm) (dB)
40	QPSK	1	1	18.40	18.37	18.50	19.5 0.0
Channel				647668	650000	652332	Tune-up limit MPR
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm) (dB)
30	QPSK	1	1	18.48	18.47	18.37	19.5 0.0
Channel				647334	650000	652666	Tune-up limit MPR
Frequency (MHz)				3710.01	3750	3789.99	(dBm) (dB)
20	QPSK	1	1	18.51	18.45	18.47	19.5 0.0
Channel				647000	650000	652992	Tune-up limit MPR
Frequency (MHz)				3707.95	3750	3792.48	(dBm) (dB)
15	QPSK	1	1	18.49	18.42	18.44	19.5 0.0
Channel				647000	650000	653000	Tune-up limit MPR
Frequency (MHz)				3705	3750	3795	(dBm) (dB)
10	QPSK	1	1	18.37	18.42	18.50	19.5 0.0



Part27Q n78_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				633332	633332	3499.98		
Frequency (MHz)				18.42				
100	PI2 BPSK	1	1		18.42			
100	PI2 BPSK	1	137		18.41		19.5	0.0
100	PI2 BPSK	1	271		18.44			
100	PI2 BPSK	135	0		18.38		19.5	0.0
100	PI2 BPSK	135	69		18.42		19.5	0.0
100	PI2 BPSK	135	138		18.40			
100	PI2 BPSK	270	0		18.33		19.5	0.0
100	QPSK	1	1		18.47			
100	QPSK	1	137		18.43		19.5	0.0
100	QPSK	1	271		18.37			
100	QPSK	135	0		18.35			
100	QPSK	135	69		18.45		19.5	0.0
100	QPSK	135	138		18.38			
100	QPSK	270	0		18.38		19.5	0.0
100	16QAM	1	1		18.46		19.5	0.0
100	64QAM	1	1		18.40		19.5	0.0
100	256QAM	1	1		18.39		19.5	0.0
Channel				633000	633332	633666	Tune-up limit (dB)	MPR
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	18.36	18.39	18.42	19.5	0.0
Channel				632668	633332	634000	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	18.32	18.46	18.34	19.5	0.0
Channel				633334	633332	633332	Tune-up limit (dB)	MPR
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	18.41	18.43	18.37	19.5	0.0
Channel				632000	633332	634666	Tune-up limit (dB)	MPR
Frequency (MHz)				3489	3499.98	3518.99		
60	QPSK	1	1	18.45	18.46	18.32	19.5	0.0
Channel				631668	633332	635000	Tune-up limit (dB)	MPR
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	18.45	18.44	18.39	19.5	0.0
Channel				631334	633332	635332	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	18.44	18.39	18.39	19.5	0.0
Channel				631000	633332	635666	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	18.41	18.44	18.39	19.5	0.0
Channel				630668	633332	636000	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	18.34	18.45	18.39	19.5	0.0
Channel				630500	633332	636166	Tune-up limit (dB)	MPR
Frequency (MHz)				3457.5	3499.98	3542.99		
15	QPSK	1	1	18.46	18.39	18.46	19.5	0.0
Channel				630334	633332	636332	Tune-up limit (dB)	MPR
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	18.40	18.39	18.42	19.5	0.0

Part27Q n78_Ant 4_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				633332	633332	3499.98		
Frequency (MHz)				18.42				
100	PI2 BPSK	1	1		18.42			
100	PI2 BPSK	1	137		18.41		19.5	0.0
100	PI2 BPSK	1	271		18.44			
100	PI2 BPSK	135	0		18.38		19.5	0.0
100	PI2 BPSK	135	69		18.42		19.5	0.0
100	PI2 BPSK	135	138		18.40			
100	PI2 BPSK	270	0		18.33		19.5	0.0
100	QPSK	1	1		18.47			
100	QPSK	1	137		18.43		19.5	0.0
100	QPSK	1	271		18.37			
100	QPSK	135	0		18.35			
100	QPSK	135	69		18.45		19.5	0.0
100	QPSK	135	138		18.38			
100	QPSK	270	0		18.38		19.5	0.0
100	16QAM	1	1		18.46		19.5	0.0
100	64QAM	1	1		18.40		19.5	0.0
100	256QAM	1	1		18.39		19.5	0.0
Channel				633000	633332	633666	Tune-up limit (dB)	MPR
Frequency (MHz)				3495	3499.98	3504.98		
90	QPSK	1	1	18.36	18.39	18.42	19.5	0.0
Channel				632668	633332	634000	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	18.32	18.46	18.34	19.5	0.0
Channel				633334	633332	633332	Tune-up limit (dB)	MPR
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	18.41	18.43	18.37	19.5	0.0
Channel				632000	633332	634666	Tune-up limit (dB)	MPR
Frequency (MHz)				3489	3499.98	3518.99		
60	QPSK	1	1	18.45	18.46	18.32	19.5	0.0
Channel				631668	633332	635000	Tune-up limit (dB)	MPR
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	18.45	18.44	18.39	19.5	0.0
Channel				631334	633332	635332	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	18.44	18.39	18.39	19.5	0.0
Channel				631000	633332	635666	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	18.41	18.44	18.39	19.5	0.0
Channel				630668	633332	636000	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	18.34	18.45	18.39	19.5	0.0
Channel				630500	633332	636166	Tune-up limit (dB)	MPR
Frequency (MHz)				3457.5	3499.98	3542.99		
15	QPSK	1	1	18.46	18.39	18.46	19.5	0.0
Channel				630334	633332	636332	Tune-up limit (dB)	MPR
Frequency (MHz)				3453.01	3499.98	3544.98		
10	QPSK	1	1	18.40	18.39	18.42	19.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power MPR Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.90			24.0	0.0
100	PI2 BPSK	1	137	22.92				
100	PI2 BPSK	1	271	22.91				
100	PI2 BPSK	135	0	22.93				
100	PI2 BPSK	135	69	22.90			24.0	0.0
100	PI2 BPSK	135	138	22.87				
100	PI2 BPSK	270	0	22.91				
100	QPSK	1	1	23.05				
100	QPSK	1	137	23.04			24.0	0.0
100	QPSK	1	271	23.03				
100	QPSK	135	0	23.02				
100	QPSK	135	69	23.04				
100	QPSK	135	138	22.96			24.0	0.0
100	QPSK	270	0	22.95				
100	16QAM	1	1	22.31			24.0	0.0
100	64QAM	1	1	22.36			23.0	0.0
100	256QAM	1	1	20.58			21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.85	22.93	22.88	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.82	22.80	22.84	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.83	22.80	22.93	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.90	22.88	22.94	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.95	22.81	22.94	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.95	22.83	22.83	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.95	22.81	22.92	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.95	22.84	22.85	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.88	22.88	22.88	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.86	22.85	22.85	24.0	0.0

Par270 n78_Ant 7_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power MPR Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.00			24.0	0.0
100	PI2 BPSK	1	137	22.92				
100	PI2 BPSK	1	271	22.91				
100	PI2 BPSK	135	0	22.93				
100	PI2 BPSK	135	69	22.90			24.0	0.0
100	PI2 BPSK	135	138	22.87				
100	PI2 BPSK	270	0	22.91				
100	QPSK	1	1	23.05				
100	QPSK	1	137	23.04			24.0	0.0
100	QPSK	1	271	23.03				
100	QPSK	135	0	23.02				
100	QPSK	135	69	23.04				
100	QPSK	135	138	22.96			24.0	0.0
100	QPSK	270	0	22.95				
100	16QAM	1	1	22.31			24.0	0.0
100	64QAM	1	1	22.36			23.0	1.0
100	256QAM	1	1	20.58			21.0	3.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.85	22.93	22.88	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.82	22.80	22.84	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.83	22.80	22.93	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.90	22.88	22.94	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.95	22.81	22.94	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.95	22.83	22.83	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.95	22.81	22.92	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.95	22.84	22.85	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.88	22.88	22.88	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.86	22.85	22.85	24.0	0.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)
							MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.10	23.10		
100	PI2 BPSK	1	137	23.12	23.12		24.0
100	PI2 BPSK	1	271	23.10	23.10		
100	PI2 BPSK	135	0	23.17	23.17		24.0
100	PI2 BPSK	135	69	23.13	23.13		24.0
100	PI2 BPSK	135	138	23.10	23.10		24.0
100	PI2 BPSK	270	0	23.10	23.10		
100	QPSK	1	1	23.18	23.18		
100	QPSK	1	137	23.12	23.12		24.0
100	QPSK	1	271	23.10	23.10		
100	QPSK	135	0	23.09	23.09		
100	QPSK	135	69	23.12	23.12		24.0
100	QPSK	135	138	22.50	22.50		
100	QPSK	270	0	23.14	23.14		24.0
100	16QAM	1	1	23.12	23.12		24.0
100	64QAM	1	1	22.98	22.98		23.0
100	256QAM	1	1	21.11	21.11		22.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.13	23.13	23.13	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.12	23.08	23.09	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.10	23.13	23.12	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.10	23.09	23.04	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.10	23.07	23.05	24.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power MPR4 Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)
							MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.10	23.10		
100	PI2 BPSK	1	137	23.12	23.12		24.0
100	PI2 BPSK	1	271	23.10	23.10		
100	PI2 BPSK	135	0	23.17	23.17		24.0
100	PI2 BPSK	135	69	23.13	23.13		24.0
100	PI2 BPSK	135	138	23.10	23.10		24.0
100	PI2 BPSK	270	0	23.10	23.10		
100	QPSK	1	1	23.18	23.18		
100	QPSK	1	137	23.12	23.12		24.0
100	QPSK	1	271	23.10	23.10		
100	QPSK	135	0	23.09	23.09		
100	QPSK	135	69	23.12	23.12		24.0
100	QPSK	135	138	22.50	22.50		
100	QPSK	270	0	23.14	23.14		24.0
100	16QAM	1	1	23.12	23.12		24.0
100	64QAM	1	1	22.98	22.98		23.0
100	256QAM	1	1	21.11	21.11		22.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.13	23.13	23.13	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.12	23.08	23.09	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.10	23.13	23.12	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.10	23.09	23.04	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.10	23.07	23.05	24.0



Par270 n78_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				3750				
Frequency (MHz)				19.57				
100	PQ2 BPSK	1	1	19.57			21.0	0.0
100	PQ2 BPSK	1	137	19.57				
100	PQ2 BPSK	1	271	19.54				
100	PQ2 BPSK	135	0	19.56			21.0	0.0
100	PQ2 BPSK	135	69	19.55			21.0	0.0
100	PQ2 BPSK	135	138	19.64			21.0	0.0
100	PQ2 BPSK	270	0	19.64				
100	QPSK	1	1	19.65				
100	QPSK	1	137	19.57			21.0	0.0
100	QPSK	1	271	19.54				
100	QPSK	135	0	19.60				
100	QPSK	135	69	19.65			21.0	0.0
100	QPSK	135	138	19.61				
100	QPSK	270	0	19.55			21.0	0.0
100	16QAM	1	1	19.62			21.0	0.0
100	64QAM	1	1	18.74			20.5	0.5
100	256QAM	1	1	18.75			18.5	2.5
Channel				648968	650000	650332	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3743.02	3750	3754.98		
90	QPSK	1	1	19.62	19.60	19.48	21.0	0.0
Channel				648334	650000	650666	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.99		
80	QPSK	1	1	19.51	19.56	19.52	21.0	0.0
Channel				649500	650000	651000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.58	19.63	19.58	21.0	0.0
Channel				648968	650000	651332	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3730.01	3750	3770.99		
60	QPSK	1	1	19.56	19.61	19.47	21.0	0.0
Channel				648334	650000	651666	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1	19.57	19.60	19.51	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.49	19.50	19.49	21.0	0.0
Channel				647606	650000	652532	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3715.02	3760.00	3764.98		
30	QPSK	1	1	19.55	19.56	19.51	21.0	0.0
Channel				647234	650000	652806	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3769.99		
20	QPSK	1	1	19.58	19.55	19.47	21.0	0.0
Channel				647168	650000	652932	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3707.50	3750	3762.48		
15	QPSK	1	1	19.65	19.57	19.47	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3705	3750	3765		
10	QPSK	1	1	19.62	19.57	19.55	21.0	0.0

Par270 n78_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (650000)	Power Mod Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				3750				
Frequency (MHz)				19.58				
100	PQ2 BPSK	1	1	19.58			23.0	0.0
100	PQ2 BPSK	1	137	21.44				
100	PQ2 BPSK	1	271	21.53				
100	PQ2 BPSK	135	0	20.70			22.5	0.5
100	PQ2 BPSK	135	69	21.33			23.0	0.0
100	PQ2 BPSK	135	138	20.82			22.5	0.5
100	PQ2 BPSK	270	0	20.78				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.52			23.0	0.0
100	QPSK	1	271	21.54				
100	QPSK	135	0	20.17				
100	QPSK	135	69	21.28			23.0	0.0
100	QPSK	135	138	20.32				
100	QPSK	270	0	20.23			22.0	1.0
100	16QAM	1	1	20.28			22.0	1.0
100	64QAM	1	1	18.74			20.5	2.5
100	256QAM	1	1	18.75			18.5	4.5
Channel				648968	650000	650332	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3743.02	3750	3754.98		
90	QPSK	1	1	21.63	21.50	21.48	23.0	0.0
Channel				648334	650000	650666	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.99		
80	QPSK	1	1	21.54	21.49	21.52	23.0	0.0
Channel				649500	650000	651000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.51	21.49	21.47	23.0	0.0
Channel				648968	650000	651332	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3730.01	3750	3770.99		
60	QPSK	1	1	21.59	21.51	21.49	23.0	0.0
Channel				648334	650000	651666	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1	21.52	21.46	21.47	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.51	21.51	21.47	23.0	0.0
Channel				647606	650000	652532	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3715.02	3760.00	3764.98		
30	QPSK	1	1	21.55	21.48	21.46	23.0	0.0
Channel				647234	650000	652806	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3769.99		
20	QPSK	1	1	21.56	21.48	21.46	23.0	0.0
Channel				647168	650000	652932	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3707.50	3750	3762.48		
15	QPSK	1	1	21.55	21.49	21.48	23.0	0.0
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				3705	3750	3765		
10	QPSK	1	1	21.56	21.50	21.45	23.0	0.0



Part27Q n78_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633332	633666		MPR	
Frequency (MHz)				3495.98	3499.98	3504.98			
100	PQ2 BPSK	1	1	18.93	18.97	18.94	20.0	0.0	
100	PQ2 BPSK	1	137	18.97	18.94	18.92	20.0	0.0	
100	PQ2 BPSK	1	271	18.94	18.92	18.89	20.0	0.0	
100	PQ2 BPSK	135	0	18.92	18.89	18.81	20.0	0.0	
100	PQ2 BPSK	135	69	18.89	18.81	18.79	20.0	0.0	
100	PQ2 BPSK	135	138	18.81	18.79	18.74	20.0	0.0	
100	PQ2 BPSK	270	0	18.79	18.74	18.69	20.0	0.0	
100	QPSK	1	1	18.96	18.89	18.85	20.0	0.0	
100	QPSK	1	137	18.87	18.85	18.81	20.0	0.0	
100	QPSK	1	271	18.85	18.81	18.78	20.0	0.0	
100	QPSK	135	0	18.84	18.81	18.79	20.0	0.0	
100	QPSK	135	69	18.81	18.79	18.78	20.0	0.0	
100	QPSK	135	138	18.80	18.79	18.79	20.0	0.0	
100	QPSK	270	0	18.79	18.78	18.78	20.0	0.0	
100	16QAM	1	1	18.90	18.90	18.90	20.0	0.0	
100	64QAM	1	1	18.29	18.29	18.29	19.5	0.5	
100	256QAM	1	1	18.31	18.31	18.31	17.5	2.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.98	(dBm)	(dB)	
90	QPSK	1	1	18.87	18.91	18.81	20.0	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	18.87	18.85	18.85	20.0	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	18.81	18.80	18.78	20.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	18.88	18.79	18.81	20.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	18.87	18.85	18.80	20.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	18.90	18.83	18.87	20.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	18.90	18.91	18.83	20.0	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	18.83	18.80	18.81	20.0	0.0	
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.99	(dBm)	(dB)	
15	QPSK	1	1	18.90	18.83	18.82	20.0	0.0	
Channel				630004	633332	636666	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	18.86	18.78	18.83	20.0	0.0	

Part27Q n78_Ant 8_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633332	633666		MPR	
Frequency (MHz)				3495.98	3499.98	3504.98			
100	PQ2 BPSK	1	1	20.87	20.86	20.82	22.0	0.0	
100	PQ2 BPSK	1	137	20.86	20.80	20.50	21.5	0.5	
100	PQ2 BPSK	1	271	20.80	20.23	20.20	22.0	0.0	
100	PQ2 BPSK	135	0	20.80	20.20	20.20	21.5	0.5	
100	PQ2 BPSK	135	69	20.80	20.28	20.28	22.0	0.0	
100	PQ2 BPSK	135	138	20.31	20.28	20.28	21.5	0.5	
100	PQ2 BPSK	270	0	20.28	20.28	20.28	21.0	1.0	
100	QPSK	1	1	20.91	20.79	20.51	21.0	1.0	
100	QPSK	1	137	20.79	20.53	20.53	21.0	1.0	
100	QPSK	1	271	20.53	20.53	20.53	21.0	1.0	
100	QPSK	135	0	20.74	20.67	20.67	21.0	1.0	
100	QPSK	135	69	20.67	20.67	20.67	21.0	1.0	
100	QPSK	135	138	20.50	20.50	20.50	21.0	1.0	
100	QPSK	270	0	20.49	20.49	20.49	21.0	1.0	
100	16QAM	1	1	19.90	19.90	19.90	19.5	0.5	
100	64QAM	1	1	18.29	18.29	18.29	18.5	0.5	
100	256QAM	1	1	18.31	18.31	18.31	17.5	4.5	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				3495	3499.98	3504.98	(dBm)	(dB)	
90	QPSK	1	1	20.87	20.86	20.83	22.0	0.0	
Channel				632668	633332	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)	
80	QPSK	1	1	20.80	20.84	20.80	22.0	0.0	
Channel				632334	633332	634332	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)	
70	QPSK	1	1	20.86	20.81	20.83	22.0	0.0	
Channel				632000	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				3480	3499.98	3518.99	(dBm)	(dB)	
60	QPSK	1	1	20.87	20.84	20.88	22.0	0.0	
Channel				631668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)	
50	QPSK	1	1	20.83	20.84	20.88	22.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	20.92	20.77	20.89	22.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)	
30	QPSK	1	1	20.83	20.79	20.85	22.0	0.0	
Channel				630668	633332	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)	
20	QPSK	1	1	20.87	20.83	20.84	22.0	0.0	
Channel				630300	633332	636366	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3499.98	3542.99	(dBm)	(dB)	
15	QPSK	1	1	20.85	20.86	20.87	22.0	0.0	
Channel				630004	633332	636666	Tune-up limit	MPR	
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)	
10	QPSK	1	1	20.75	20.75	20.84	22.0	0.0	



Par270 n78_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750					
100	PQ2 BPSK	1	1		16.07		17.5	0.0	
100	PQ2 BPSK	1	137		16.03				
100	PQ2 BPSK	1	271		16.10				
100	PQ2 BPSK	135	0		16.08		17.5	0.0	
100	PQ2 BPSK	135	69		16.02		17.5	0.0	
100	PQ2 BPSK	135	138		16.05		17.5	0.0	
100	PQ2 BPSK	270	0		16.06				
100	QPSK	1	1		16.13				
100	QPSK	1	137		16.00		17.5	0.0	
100	QPSK	1	271		16.12				
100	QPSK	135	0		16.02				
100	QPSK	135	69		16.11		17.5	0.0	
100	QPSK	135	138		16.07				
100	QPSK	270	0		15.99		17.5	0.0	
100	16QAM	1	1		16.10		17.5	0.0	
100	64QAM	1	1		16.01		17.5	0.0	
100	256QAM	1	1		16.12		17.5	0.0	
Channel									
Frequency (MHz)				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	16.00	16.08	16.08	17.5	0.0	
Channel									
Frequency (MHz)				650334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	16.01	16.11	16.01	17.5	0.0	
Channel									
Frequency (MHz)				651001	650000	652000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	16.09	16.04	16.01	17.5	0.0	
Channel									
Frequency (MHz)				652002	650000	653998	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	16.11	16.03	16.01	17.5	0.0	
Channel									
Frequency (MHz)				653334	650000	651998	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	16.04	16.00	15.98	17.5	0.0	
Channel									
Frequency (MHz)				650001	650000	650000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.11	15.99	16.07	17.5	0.0	
Channel									
Frequency (MHz)				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.04	16.10	16.05	17.5	0.0	
Channel									
Frequency (MHz)				647334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.10	15.96	15.99	17.5	0.0	
Channel									
Frequency (MHz)				651001	650000	652000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.12	15.98	16.00	17.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.04	16.12	16.07	17.5	0.0	

Par270 n78_Ant 10_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PQ2 BPSK	1	1		16.07		17.5	0.0	
100	PQ2 BPSK	1	137		16.03				
100	PQ2 BPSK	1	271		16.10				
100	PQ2 BPSK	135	0		16.08		17.5	0.0	
100	PQ2 BPSK	135	69		16.02		17.5	0.0	
100	PQ2 BPSK	135	138		16.05		17.5	0.0	
100	PQ2 BPSK	270	0		16.06				
100	QPSK	1	1		16.13				
100	QPSK	1	137		16.00		17.5	0.0	
100	QPSK	1	271		16.12				
100	QPSK	135	0		16.02				
100	QPSK	135	69		16.11		17.5	0.0	
100	QPSK	135	138		16.07				
100	QPSK	270	0		15.99		17.5	0.0	
100	16QAM	1	1		16.10		17.5	0.0	
100	64QAM	1	1		16.01		17.5	0.0	
100	256QAM	1	1		16.12		17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.00	16.08	16.08	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.01	16.11	16.01	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.09	16.04	16.01	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.11	16.03	16.01	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.04	16.00	15.98	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.11	15.99	16.07	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.04	16.10	16.05	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.03	16.12	15.98	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.12	15.98	16.00	Tune-up limit (dbm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.04	16.12	16.07	Tune-up limit (dbm)	MPR (dB)	



Part27Q n78_Ant 10								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modula Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				633332		3493.98		
Frequency (MHz)				16.01				
100	PQ2 BPSK	1	1		15.95		17.5	0.0
100	PQ2 BPSK	1	137		16.02			
100	PQ2 BPSK	1	271		16.02			
100	PQ2 BPSK	135	0		15.97		17.5	0.0
100	PQ2 BPSK	135	69		16.01			
100	PQ2 BPSK	135	138		16.03		17.5	0.0
100	PQ2 BPSK	270	0		16.03			
100	QPSK	1	1		16.10			
100	QPSK	1	137		15.99		17.5	0.0
100	QPSK	1	271		16.02			
100	QPSK	135	0		15.99			
100	QPSK	135	69		16.05		17.5	0.0
100	QPSK	135	138		16.01			
100	QPSK	270	0		16.07		17.5	0.0
100	16QAM	1	1		16.02		17.5	0.0
100	64QAM	1	1		15.95		17.5	0.0
100	256QAM	1	1		16.06		17.5	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(dB)
90	QPSK	1	1	16.04	16.03	16.01	17.5	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)
80	QPSK	1	1	15.96	16.01	16.01	17.5	0.0
Channel				633334	633332	633332	Tune-up limit	MPR
Frequency (MHz)				3495.01	3499.98	3514.98	(dbm)	(dB)
70	QPSK	1	1	15.96	16.08	16.08	17.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3494	3499.98	3518.99	(dbm)	(dB)
60	QPSK	1	1	15.99	15.98	16.09	17.5	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(dB)
50	QPSK	1	1	15.95	16.04	16.00	17.5	0.0
Channel				631334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)
40	QPSK	1	1	16.08	15.99	16.03	17.5	0.0
Channel				631000	633332	637666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)
30	QPSK	1	1	16.00	16.06	16.09	17.5	0.0
Channel				630668	633332	639000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(dB)
20	QPSK	1	1	16.07	15.96	16.09	17.5	0.0
Channel				630000	633332	639666	Tune-up limit	MPR
Frequency (MHz)				3452.5	3499.98	3542.99	(dbm)	(dB)
15	QPSK	1	1	15.98	15.98	15.97	17.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3452.01	3499.98	3544.98	(dbm)	(dB)
10	QPSK	1	1	15.96	16.00	15.97	17.5	0.0

Part27Q n78_Ant 10_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Modula Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)
Channel				633332		3493.98		
Frequency (MHz)				16.01				
100	PQ2 BPSK	1	1		15.95		17.5	0.0
100	PQ2 BPSK	1	137		16.02			
100	PQ2 BPSK	1	271		16.02			
100	PQ2 BPSK	135	0		15.97		17.5	0.0
100	PQ2 BPSK	135	69		16.01			
100	PQ2 BPSK	135	138		16.03		17.5	0.0
100	PQ2 BPSK	270	0		16.03			
100	QPSK	1	1		16.10			
100	QPSK	1	137		15.99		17.5	0.0
100	QPSK	1	271		16.02			
100	QPSK	135	0		15.99			
100	QPSK	135	69		16.05		17.5	0.0
100	QPSK	135	138		16.01			
100	QPSK	270	0		16.07		17.5	0.0
100	16QAM	1	1		16.02		17.5	0.0
100	64QAM	1	1		15.95		17.5	0.0
100	256QAM	1	1		16.06		17.5	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dbm)	(dB)
90	QPSK	1	1	16.04	16.03	16.01	17.5	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dbm)	(dB)
80	QPSK	1	1	15.96	16.01	16.01	17.5	0.0
Channel				633334	633332	633332	Tune-up limit	MPR
Frequency (MHz)				3495.01	3499.98	3514.98	(dbm)	(dB)
70	QPSK	1	1	15.96	16.08	16.08	17.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3494	3499.98	3518.99	(dbm)	(dB)
60	QPSK	1	1	15.99	15.98	16.09	17.5	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dbm)	(dB)
50	QPSK	1	1	15.95	16.04	16.00	17.5	0.0
Channel				631334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dbm)	(dB)
40	QPSK	1	1	16.08	15.99	16.03	17.5	0.0
Channel				631000	633332	637666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dbm)	(dB)
30	QPSK	1	1	16.00	16.06	16.09	17.5	0.0
Channel				630668	633332	639000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dbm)	(dB)
20	QPSK	1	1	16.07	15.96	16.09	17.5	0.0
Channel				630000	633332	639666	Tune-up limit	MPR
Frequency (MHz)				3452.5	3499.98	3542.99	(dbm)	(dB)
15	QPSK	1	1	15.98	15.98	15.97	17.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3452.01	3499.98	3544.98	(dbm)	(dB)
10	QPSK	1	1	15.96	16.00	15.97	17.5	0.0



Reduced Power Mode for DSI7

n2_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.85	14.88	14.71	16.0	0.0	
20	PI2 BPSK	1	53	14.83	14.81	14.69			
20	PI2 BPSK	1	104	14.86	14.87	14.65			
20	PI2 BPSK	50	0	14.86	14.85	14.73	16.0	0.0	
20	PI2 BPSK	50	28	14.80	14.88	14.69	16.0	0.0	
20	PI2 BPSK	50	56	14.86	14.90	14.67	16.0	0.0	
20	PI2 BPSK	100	0	14.85	14.87	14.68			
20	QPSK	1	1	14.89	14.95	14.82			
20	QPSK	1	53	14.80	14.91	14.73	16.0	0.0	
20	QPSK	1	104	14.76	14.83	14.76	16.0	0.0	
20	QPSK	50	0	14.84	14.88	14.64			
20	QPSK	50	28	14.89	14.91	14.76			
20	QPSK	50	56	14.78	14.90	14.64	16.0	0.0	
20	QPSK	100	0	14.82	14.85	14.72	16.0	0.0	
20	16QAM	1	1	14.82	14.86	14.63			
20	16QAM	1	1	14.86	14.88	14.63			
20	256QAM	1	1	14.83	14.84	14.74	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.87	14.80	14.71	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.79	14.81	14.71	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.75	14.87	14.65	16.0	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	12.23	12.32	12.24	13.5	0.0	
20	PI2 BPSK	1	53	12.27	12.38	12.22			
20	PI2 BPSK	1	104	12.33	12.38	12.31			
20	PI2 BPSK	50	5	12.25	12.39	12.24	13.5	0.0	
20	PI2 BPSK	50	28	12.33	12.39	12.27	13.5	0.0	
20	PI2 BPSK	50	56	12.23	12.38	12.31	13.5	0.0	
20	PI2 BPSK	100	0	12.30	12.39	12.25			
20	QPSK	1	1	12.42	12.45	12.37			
20	QPSK	1	53	12.32	12.44	12.30	13.5	0.0	
20	QPSK	1	104	12.35	12.34	12.28	13.5	0.0	
20	QPSK	50	0	12.24	12.41	12.24			
20	QPSK	50	28	12.35	12.43	12.31			
20	QPSK	50	56	12.24	12.33	12.25	13.5	0.0	
20	QPSK	100	0	12.34	12.41	12.28	13.5	0.0	
20	16QAM	1	1	12.34	12.34	12.28			
20	64QAM	1	1	12.28	12.35	12.28			
20	256QAM	1	1	12.28	12.39	12.30	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.26	12.35	12.31	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.33	12.38	12.26	13.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	12.33	12.32	12.29	13.5	0.0	

n5_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0			
20	PI2 BPSK	1	53	22.88	22.84	22.79					
20	PI2 BPSK	1	104	22.81	22.90	22.79					
20	PI2 BPSK	50	5	22.85	22.92	22.79	24.0	0.0			
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0			
20	PI2 BPSK	50	56	22.90	22.88	22.78	24.0	0.0			
20	PI2 BPSK	100	0	22.78	22.81	22.72					
20	QPSK	1	1	22.92	22.97	22.80					
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0			
20	QPSK	1	104	22.83	22.79	22.72	24.0	0.0			
20	QPSK	50	0	22.76	22.77	22.75					
20	QPSK	50	28	22.75	22.81	22.76					
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0			
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0			
20	16QAM	1	1	22.77	22.81	22.75					
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0			
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.84	22.83	22.78	24.0	0.0			



n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	215	0.0	
Frequency (MHz)				834	836.5	838			
20	P12 BPSK	1	1	20.08	20.13	20.09	215	0.0	
20	P12 BPSK	1	53	20.02	20.11	20.01			
20	P12 BPSK	1	104	20.04	20.06	20.04	215	0.0	
20	P12 BPSK	50	0	20.08	20.06	20.07			
20	P12 BPSK	50	26	20.01	20.07	20.03	215	0.0	
20	P12 BPSK	50	56	20.00	20.05	20.05			
20	P12 BPSK	100	0	20.01	20.14	19.99	215	0.0	
20	QPSK	1	1	20.23	20.24	20.22			
20	QPSK	1	53	20.10	20.20	20.20	215	0.0	
20	QPSK	1	104	20.12	20.15	20.19			
20	QPSK	50	0	20.12	20.14	20.09	215	0.0	
20	QPSK	50	26	20.13	20.18	20.11			
20	QPSK	50	56	20.09	20.05	20.09	215	0.0	
20	QPSK	100	0	20.01	20.11	20.10			
20	16QAM	1	1	20.08	20.02	20.05	215	0.0	
20	64QAM	1	1	20.01	20.14	20.07			
20	256QAM	1	1	19.30	19.31	19.26	205	1.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5	Tune-up limit (dBm)		
15	QPSK	1	1	20.03	20.11	20.05	215	0.0	
Channel				166500	167300	168000			
Frequency (MHz)				829	836.5	844	Tune-up limit (dBm)		
10	QPSK	1	1	20.07	20.12	20.06	215	0.0	
Channel				166300	167300	169300			
Frequency (MHz)				836.5	836.5	846.5	Tune-up limit (dBm)		
5	QPSK	1	1	20.07	20.08	20.04	215	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	14.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	P12 BPSK	1	1	12.81	13.03	13.02	14.0	0.0	
40	P12 BPSK	1	108	12.67	12.85	12.91			
40	P12 BPSK	1	214	12.68	12.86	12.82	14.0	0.0	
40	P12 BPSK	108	0	12.53	12.94	12.76			
40	P12 BPSK	108	54	12.67	12.97	12.86	14.0	0.0	
40	P12 BPSK	108	108	12.60	12.88	12.82			
40	P12 BPSK	216	0	12.76	13.03	12.82	14.0	0.0	
40	QPSK	1	1	12.82	13.06	13.05			
40	QPSK	1	108	12.69	13.02	13.01	14.0	0.0	
40	QPSK	1	214	12.74	12.95	12.92			
40	QPSK	108	0	12.61	13.01	12.85	14.0	0.0	
40	QPSK	108	54	12.72	13.05	12.91			
40	QPSK	108	108	12.68	12.93	12.85	14.0	0.0	
40	QPSK	216	0	12.81	13.04	12.98			
40	16QAM	1	1	12.80	13.00	12.98	14.0	0.0	
40	64QAM	1	1	12.65	12.98	12.99			
40	256QAM	1	1	12.70	12.90	12.82	14.0	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)		
30	QPSK	1	1	12.72	12.98	12.99	14.0	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5	Tune-up limit (dBm)		
25	QPSK	1	1	12.76	12.97	12.99	14.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)		
20	QPSK	1	1	12.81	13.02	13.00	14.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)		
15	QPSK	1	1	12.73	12.88	12.87	14.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)		
10	QPSK	1	1	12.76	13.01	12.99	14.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)		
5	QPSK	1	1	12.74	13.01	13.04	14.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000	20.0	0.0	
Frequency (MHz)				2500	2535	2550			
40	P12 BPSK	1	1	18.93	19.10	18.97	20.0	0.0	
40	P12 BPSK	1	108	18.85	18.94	18.85			
40	P12 BPSK	1	214	18.85	18.89	18.86	20.0	0.0	
40	P12 BPSK	108	0	18.80	18.90	18.77			
40	P12 BPSK	108	54	19.01	18.96	18.96	20.0	0.0	
40	P12 BPSK	108	108	18.74	18.87	18.86			
40	P12 BPSK	216	0	18.86	18.97	18.79	20.0	0.0	
40	QPSK	1	1	19.03	19.11	18.98			
40	QPSK	1	108	18.92	18.96	18.87	20.0	0.0	
40	QPSK	1	214	18.93	18.92	18.92			
40	QPSK	108	0	18.88	18.95	18.81	20.0	0.0	
40	QPSK	108	54	19.02	19.05	18.97			
40	QPSK	108	108	18.84	18.91	18.88	20.0	0.0	
40	QPSK	216	0	18.93	19.06	18.85			
40	16QAM	1	1	19.00	19.10	18.92	20.0	0.0	
40	64QAM	1	1	18.85	18.88	18.80			
40	256QAM	1	1	18.87	18.90	18.83	20.0	0.0	
Channel				503500	507000	511000			
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)		
30	QPSK	1	1	18.95	19.09	18.90	20.0	0.0	
Channel				502900	507000	511900			
Frequency (MHz)				2512.5	2535	2557.5	Tune-up limit (dBm)		
25	QPSK	1	1	18.97	19.05	18.93	20.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)		
20	QPSK	1	1	19.01	19.04	18.89	20.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)		
15	QPSK	1	1	18.98	19.03	18.90	20.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)		
10	QPSK	1	1	19.02	19.01	18.96	20.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)		
5	QPSK	1	1	18.95	19.10	18.94	20.0	0.0	

n12_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	P12 BPSK	1	40	22.87	22.83	22.77			
15	P12 BPSK	1	77	22.78	22.87	22.84			
15	P12 BPSK	36	0	22.80	22.80	22.69	24.0	0.0	
15	P12 BPSK	36	22	22.81	22.88	22.79	24.0	0.0	
15	P12 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	P12 BPSK	75	0	22.74	22.85	22.71	24.0	0.0	
15	QPSK	1	1	22.85	22.82	22.82			
15	QPSK	1	40	22.71	22.85	22.72			
15	QPSK	1	77	22.74	22.77	22.70	24.0	0.0	
15	QPSK	36	0	22.71	22.82	22.71			
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.76	22.83	22.76			
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up time (s)	MPR (dB)			
Channel											
Frequency (MHz)											
15	P12 BPSK	1	1	20.74	20.75	20.75	23.5	0.0			
15	P12 BPSK	1	40	22.56	22.59	22.59					
15	P12 BPSK	1	77	22.45	22.67	22.59					
15	P12 BPSK	36	0	22.49	22.53	22.59	23.5	0.0			
15	P12 BPSK	36	22	22.61	22.69	22.60	23.5	0.0			
15	P12 BPSK	36	43	22.44	22.59	22.51	23.5	0.0			
15	P12 BPSK	75	0	22.63	22.71	22.60					
15	QPSK	1	1	22.75	22.78	22.72					
15	QPSK	1	40	22.62	22.64	22.65	23.5	0.0			
15	QPSK	1	77	22.53	22.68	22.61					
15	QPSK	36	0	22.57	22.63	22.61	23.5	0.0			
15	QPSK	36	22	22.63	22.70	22.65	23.5	0.0			
15	QPSK	36	43	22.52	22.63	22.56	23.5	0.0			
15	QPSK	75	0	22.72	22.74	22.65	23.5	0.0			
15	16QAM	1	1	22.72	22.73	22.68					
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.0			
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	22.75	22.68	22.65	23.5	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.73	22.72	22.67	23.5	0.0			

n14_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (s)	MPR (dB)	
Channel									
Frequency [MHz]									
10	P12 BPSK	1	1		22.92		24.0	0.0	
10	P12 BPSK	1	26		22.91				
10	P12 BPSK	1	50		22.89				
10	P12 BPSK	25	0		22.92		24.0	0.0	
10	P12 BPSK	25	14		22.91		24.0	0.0	
10	P12 BPSK	25	27		22.92		24.0	0.0	
10	P12 BPSK	50	0		22.89				
10	QPSK	1	1		22.93				
10	QPSK	1	26		22.94		24.0	0.0	
10	QPSK	1	50		22.89				
10	QPSK	25	0		22.93		24.0	0.0	
10	QPSK	25	14		22.95		24.0	0.0	
10	QPSK	25	27		22.90		24.0	0.0	
10	QPSK	50	0		22.94		24.0	0.0	
10	16QAM	1	1		22.89				
10	64QAM	1	1		22.22		23.0	1.0	
10	256QAM	1	1		20.05		21.0	3.0	
Channel									
Frequency [MHz]									
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	



n14_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				793					
Frequency (MHz)									
10	P12 BPSK	1	1		21.11			22.5	0.0
10	P12 BPSK	1	26		20.87				
10	P12 BPSK	1	50		21.02			22.5	0.0
10	P12 BPSK	25	0		20.89				
10	P12 BPSK	25	14		20.95			22.5	0.0
10	P12 BPSK	25	27		20.88				
10	P12 BPSK	50	0		21.07			22.5	0.0
10	QPSK	1	1		21.14				
10	QPSK	1	26		20.96			22.5	0.0
10	QPSK	1	50		21.07				
10	QPSK	25	0		20.94			22.5	0.0
10	QPSK	25	14		21.13				
10	QPSK	25	27		20.98			22.5	0.0
10	QPSK	50	0		21.12				
10	16QAM	1	1		21.08			22.5	0.0
10	64QAM	1	1		20.89				
10	256QAM	1	1		19.89			21.0	1.5
Channel				158180	158600	159100	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				793.5	793	793.5			
5	QPSK	1	1		21.05	21.10	21.09	22.5	0.0

n25_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374000	376000	378000			
Frequency (MHz)				1870	1882.5	1895			
40	P12 BPSK	1	1	14.73	14.82	14.74	16.0	0.0	
40	P12 BPSK	1	108	14.67	14.86	14.61			
40	P12 BPSK	1	214	14.67	14.86	14.65	16.0	0.0	
40	P12 BPSK	108	0	14.64	14.80	14.59			
40	P12 BPSK	108	54	14.69	14.85	14.80	16.0	0.0	
40	P12 BPSK	108	108	14.60	14.64	14.59			
40	P12 BPSK	216	0	14.58	14.81	14.74	16.0	0.0	
40	QPSK	1	1	14.80	14.97	14.82			
40	QPSK	1	108	14.76	14.87	14.70	16.0	0.0	
40	QPSK	1	214	14.71	14.76	14.74			
40	QPSK	108	0	14.74	14.86	14.67	16.0	0.0	
40	QPSK	108	54	14.75	14.89	14.51			
40	QPSK	108	108	14.63	14.67	14.69	16.0	0.0	
40	QPSK	216	0	14.76	14.69	14.81			
40	16QAM	1	1	14.75	14.80	14.73	16.0	0.0	
40	64QAM	1	1	14.69	14.83	14.69			
40	256QAM	1	1	14.62	14.73	14.72	16.0	0.0	
Channel				373500	376000	379500			
Frequency (MHz)				1867.5	1882.5	1897.5			
35	QPSK	1	1	14.75	14.88	14.75	16.0	0.0	
Channel				373000	376000	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	14.73	14.93	14.75	16.0	0.0	
Channel				372500	376000	380000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	14.73	14.84	14.79	16.0	0.0	
Channel				372000	376000	381000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1860	1862.5	1905			
20	QPSK	1	1	14.75	14.87	14.78	16.0	0.0	
Channel				371500	376000	377500	Tune-up time (dBm)	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	14.72	14.95	14.75	16.0	0.0	
Channel				371000	376000	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	14.76	14.91	14.79	16.0	0.0	
Channel				370500	376000	382000	Tune-up time (dBm)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	14.70	14.90	14.73	16.0	0.0	
Channel									

n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (dBm)	MPR (dB)	
Channel				374200	376000	378000			
Frequency (MHz)				1870	1882.5	1895			
40	P12 BPSK	1	1	11.68	11.79	11.61	13.5	0.0	
40	P12 BPSK	1	108	11.64	11.60	11.61			
40	P12 BPSK	1	214	11.60	11.66	11.55	13.5	0.0	
40	P12 BPSK	108	0	11.57	11.70	11.51			
40	P12 BPSK	108	54	11.58	11.59	11.52	13.5	0.0	
40	P12 BPSK	108	108	11.60	11.53	11.54			
40	P12 BPSK	216	0	11.56	11.71	11.51	13.5	0.0	
40	QPSK	1	1	11.71	11.86	11.66			
40	QPSK	1	108	11.65	11.63	11.62	13.5	0.0	
40	QPSK	1	214	11.68	11.71	11.56			
40	QPSK	108	0	11.67	11.77	11.52	13.5	0.0	
40	QPSK	108	54	11.62	11.61	11.55			
40	QPSK	108	108	11.64	11.63	11.55	13.5	0.0	
40	QPSK	216	0	11.70	11.76	11.60			
40	16QAM	1	1	11.62	11.84	11.57	13.5	0.0	
40	64QAM	1	1	11.65	11.81	11.62			
40	256QAM	1	1	11.62	11.62	11.58	13.5	0.0	
Channel				1867.5	1882.5	1897.5	Tune-up time (dBm)	MPR (dB)	
35	QPSK	1	1	11.63	11.70	11.47	13.5	0.0	
Channel				373000	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	11.59	11.62	11.52	13.5	0.0	
Channel				372500	376000	380000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	11.54	11.58	11.54	13.5	0.0	
Channel				372000	376000	381000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1860	1862.5	1905			
20	QPSK	1	1	11.58	11.57	11.55	13.5	0.0	
Channel				371500	376000	377500	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	11.61	11.60	11.56	13.5	0.0	
Channel				371000	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	1	11.58	11.55	11.59	13.5	0.0	
Channel				370500	376000	382000	Tune-up time (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	1	11.61	11.54	11.58	13.5	0.0	
Channel									

n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164400	166000	167800			
Frequency (MHz)				824	831.5	839			
20	P12 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	P12 BPSK	1	53	22.88	22.83	22.87			
20	P12 BPSK	1	104	22.88	22.79	22.88			
20	P12 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	P12 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	P12 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	P12 BPSK	100	0	22.86	22.86	22.91			
20	QPSK	1	1	22.90	22.88	22.91	24.0	0.0	
20	QPSK	1	53	22.90	22.81	22.86			
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83			
20	16QAM	1	1	22.86	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163300	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0	

n26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164400	166300	167800			
Frequency (MHz)				811.5	831.5	841.5			
20	P12 BPSK	1	1	20.38	20.45	20.42	21.5	0.0	
20	P12 BPSK	1	53	20.32	20.44	20.33			
20	P12 BPSK	1	104	20.36	20.40	20.27			
20	P12 BPSK	50	0	20.31	20.34	20.33	21.5	0.0	
20	P12 BPSK	50	26	20.36	20.40	20.40	21.5	0.0	
20	P12 BPSK	50	56	20.19	20.26	20.25	21.5	0.0	
20	P12 BPSK	100	0	20.33	20.43	20.37			
20	QPSK	1	1	20.46	20.52	20.45	21.5	0.0	
20	QPSK	1	53	20.40	20.45	20.43			
20	QPSK	1	104	20.38	20.41	20.37			
20	QPSK	50	0	20.36	20.37	20.36	21.5	0.0	
20	QPSK	50	26	20.41	20.47	20.44	21.5	0.0	
20	QPSK	50	56	20.29	20.34	20.28	21.5	0.0	
20	QPSK	100	0	20.41	20.45	20.38			
20	16QAM	1	1	20.44	20.46	20.40	21.5	0.0	
20	64QAM	1	1	20.39	20.40	20.37	21.5	0.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	0.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				811.5	831.5	841.5			
15	QPSK	1	1	20.37	20.50	20.38	21.5	0.0	
Channel				163300	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	20.41	20.46	20.46	21.5	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	20.45	20.45	20.47	21.5	0.0	



n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				460060		2310		
Frequency (MHz)								
10	P12 BPSK	1	1		12.57		14.5	0.0
10	P12 BPSK	1	26		12.53			
10	P12 BPSK	1	50		12.61			
10	P12 BPSK	25	0		12.57		14.5	0.0
10	P12 BPSK	25	14		12.51		14.5	0.0
10	P12 BPSK	25	27		12.51		14.5	0.0
10	P12 BPSK	50	0		12.57		14.5	0.0
10	QPSK	1	1		12.65			
10	QPSK	1	26		12.62			
10	QPSK	1	50		12.57		14.5	0.0
10	QPSK	25	0		12.51			
10	QPSK	25	14		12.58			
10	QPSK	25	27		12.57		14.5	0.0
10	QPSK	50	0		12.50		14.5	0.0
10	16QAM	1	1		12.55		14.5	0.0
10	64QAM	1	1		12.57		14.5	0.0
10	256QAM	1	1		12.51		14.5	0.0
Channel				461060	460060	462060	Tune-up limit	MFR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	12.61	12.61	12.53	14.5	0.0

n30_Ant 9								
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				2307.5		2310		
Frequency (MHz)				460060				
10	P12 BPSK	1	1		19.89		21.0	0.0
10	P12 BPSK	1	26		19.93			
10	P12 BPSK	1	50		19.99			
10	P12 BPSK	25	0		19.96		21.0	0.0
10	P12 BPSK	25	14		19.91		21.0	0.0
10	P12 BPSK	25	27		19.95		21.0	0.0
10	P12 BPSK	50	0		19.85		21.0	0.0
10	QPSK	1	1		19.00			
10	QPSK	1	26		19.98			
10	QPSK	1	50		19.90		21.0	0.0
10	QPSK	25	0		19.95			
10	QPSK	25	14		19.97			
10	QPSK	25	27		19.88		21.0	0.0
10	QPSK	50	0		19.80		21.0	0.0
10	16QAM	1	1		19.96		21.0	0.0
10	64QAM	1	1		19.93		21.0	0.0
10	256QAM	1	1		19.97		21.0	0.0
Channel				461060	460060	462060	Tune-up limit	MFR
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)
5	QPSK	1	1	19.96	19.88	19.95	21.0	0.0



n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	16.01	16.04	15.89			
40	P12 BPSK	1	108	15.92	15.86	15.86	17.0		0.0
40	P12 BPSK	1	214	15.92	15.88	15.84			
40	P12 BPSK	108	0	15.78	15.80	15.80	17.0		0.0
40	P12 BPSK	108	54	15.99	16.04	15.80	17.0		0.0
40	P12 BPSK	108	108	15.72	15.84	15.83			
40	P12 BPSK	216	0	15.95	16.06	15.88	17.0		0.0
40	QPSK	1	1	16.02	16.11	15.95			
40	QPSK	1	108	15.96	15.92	15.94	17.0		0.0
40	QPSK	1	214	15.90	15.91	15.93			
40	QPSK	108	0	15.85	15.85	15.89	17.0		0.0
40	QPSK	108	54	16.01	16.06	15.95	17.0		0.0
40	QPSK	108	108	15.80	15.88	15.88	17.0		0.0
40	QPSK	216	0	16.00	16.10	15.90			
40	64QAM	1	1	16.03	16.06	15.85	17.0		0.0
40	64QAM	1	1	15.87	15.83	15.85	17.0		0.0
40	256QAM	1	1	15.81	15.84	15.87	17.0		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.95	16.04	15.85	17.0		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.98	16.04	15.87	17.0		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.00	16.03	15.93	17.0		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.04	16.10	15.88	17.0		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.02	16.09	15.93	17.0		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.96	16.09	15.86	17.0		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.01	16.02	15.91	17.0		0.0

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	13.69	13.76	13.73			
40	P12 BPSK	1	108	13.62	13.64	13.55	14.5		0.0
40	P12 BPSK	1	214	13.63	13.75	13.73			
40	P12 BPSK	108	0	13.55	13.61	13.62	14.5		0.0
40	P12 BPSK	108	54	13.56	13.72	13.65	14.5		0.0
40	P12 BPSK	108	108	13.52	13.64	13.66			
40	P12 BPSK	216	0	13.57	13.68	13.71	14.5		0.0
40	QPSK	1	1	13.75	13.82	13.81			
40	QPSK	1	108	13.70	13.74	13.65	14.5		0.0
40	QPSK	1	214	13.67	13.78	13.77			
40	QPSK	108	0	13.65	13.70	13.64	14.5		0.0
40	QPSK	108	54	13.66	13.78	13.75	14.5		0.0
40	QPSK	108	108	13.61	13.73	13.74	14.5		0.0
40	QPSK	216	0	13.65	13.75	13.72			
40	16QAM	1	1	13.65	13.72	13.76	14.5		0.0
40	64QAM	1	1	13.69	13.69	13.59	14.5		0.0
40	256QAM	1	1	13.60	13.76	13.68	14.5		0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	13.68	13.75	13.80	14.5		0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.63	13.78	13.73	14.5		0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.61	13.73	13.69	14.5		0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.63	13.74	13.73	14.5		0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.64	13.75	13.72	14.5		0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.69	13.76	13.77	14.5		0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.68	13.72	13.72	14.5		0.0

n70_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				340000					
15	P12 BPSK	1	1		17.65				
15	P12 BPSK	1	40		16.69		18.0	0.0	
15	P12 BPSK	1	77		16.59				
15	P12 BPSK	36	0		16.63		18.0	0.0	
15	P12 BPSK	36	22		16.50		18.0	0.0	
15	P12 BPSK	36	43		16.60		18.0	0.0	
15	P12 BPSK	75	0		16.64				
15	QPSK	1	1		16.76				
15	QPSK	1	40		16.64		18.0	0.0	
15	QPSK	1	77		16.63				
15	QPSK	36	0		16.60		18.0	0.0	
15	QPSK	36	22		16.74		18.0	0.0	
15	QPSK	36	43		16.61		18.0	0.0	
15	QPSK	75	0		16.72				
15	16QAM	1	1		16.70		18.0	0.0	
15	64QAM	1	1		16.64		18.0	0.0	
15	256QAM	1	1		16.63		18.0	0.0	
Channel									
Frequency (MHz)				340000	340000	341000	Tune-up limit (dBm)	MPR (dB)	
				1700	1702.5	1705			
10	QPSK	1	1	16.75	16.77	16.68	18.0	0.0	
Channel									
Frequency (MHz)				339500	339500	341500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	16.72	16.76	16.71	18.0	0.0	



n70_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340000	340000				
Frequency (MHz)				1700	1702.5				
15	P12 BPSK	1	1		14.34		15.0	0.0	
15	P12 BPSK	1	40		14.22				
15	P12 BPSK	1	77		14.22				
15	P12 BPSK	36	0		14.25		15.0	0.0	
15	P12 BPSK	36	22		14.37		15.0	0.0	
15	P12 BPSK	36	43		14.11		15.0	0.0	
15	P12 BPSK	75	0		14.26		15.0	0.0	
15	QPSK	1	1		14.43				
15	QPSK	1	40		14.32				
15	QPSK	1	77		14.24		15.0	0.0	
15	QPSK	36	0		14.33		15.0	0.0	
15	QPSK	36	22		14.42		15.0	0.0	
15	QPSK	36	43		14.12		15.0	0.0	
15	QPSK	75	0		14.31		15.0	0.0	
15	16QAM	1	1		14.42		15.0	0.0	
15	64QAM	1	1		14.33		15.0	0.0	
15	256QAM	1	1		14.28		15.0	0.0	
Channel				340000	340000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	14.34	14.38	14.39	15.0	0.0	
Channel				339500	340000	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705 <th></th> <th></th> <th></th>			
5	QPSK	1	1	14.40	14.38	14.40	15.0	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				136000	136100	136000			
Frequency (MHz)									
30	P12 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	P12 BPSK	1	80	23.01	23.04	22.92			
30	P12 BPSK	1	158	23.00	23.08	23.01			
30	P12 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	P12 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	P12 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	P12 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0	
30	QPSK	80	0	22.89	22.93	22.91			
30	QPSK	80	40	22.91	22.96	22.93			
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.88	22.86	24.0	0.0	
30	16QAM	1	1	22.80	22.83	22.83			
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel				136100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel				134000	136100	137000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.90	22.99	22.92	24.0	0.0	
Channel				133500	136100	138500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	22.96	22.92	22.88	24.0	0.0	
Channel				133100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up time (dBm)	MPR (dB)	
Channel				136000	136100	136000			
Frequency (MHz)									
				676	680.5	683			
30	P12 BPSK	1	1	23.08	23.13	23.13	24.0	0.0	
30	P12 BPSK	1	80	23.15	23.16	23.10			
30	P12 BPSK	1	158	23.18	23.24	23.20			
30	P12 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	P12 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	P12 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	P12 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0	
30	QPSK	80	0	23.08	23.09	23.11			
30	QPSK	80	40	23.13	23.19	23.17			
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14			
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel				136100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel				134600 <th>136100</th> <th>137600</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	136100	137600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel				133500 <th>136100</th> <th>138500</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	136100	138500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel				133100 <th>136100</th> <th>137100</th> <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>	136100	137100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	12.21	12.33	12.22	14.0	0.0	
40	Pl2 BPSK	1	53	12.23	12.27	12.21			
40	Pl2 BPSK	1	104	12.23	12.39	12.33			
40	Pl2 BPSK	50	0	12.18	12.23	12.30			
40	Pl2 BPSK	50	26	12.32	12.34	12.26	14.0	0.0	0.0
40	Pl2 BPSK	50	56	12.33	12.22	12.20	14.0	0.0	
40	Pl2 BPSK	100	0	12.23	12.24	12.26			
40	QPSK	1	1	12.30	12.43	12.32			
40	QPSK	1	53	12.22	12.27	12.23	14.0	0.0	
40	QPSK	1	104	12.20	12.30	12.23	14.0	0.0	
40	QPSK	50	0	12.30	12.25	12.23			
40	QPSK	50	26	12.32	12.36	12.28			
40	QPSK	50	56	12.23	12.35	12.17	14.0	0.0	0.0
40	QPSK	100	0	12.13	12.38	12.29	14.0		
40	16QAM	1	1	12.14	12.34	12.34	14.0	0.0	0.0
40	16QAM	1	1	12.16	12.21	12.26	14.0	0.0	0.0
40	256QAM	1	1	12.23	12.24	12.30	14.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.29	12.37	12.24	14.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.28	12.40	12.19	14.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.20	12.35	12.20	14.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.30	12.34	12.30	14.0	0.0	0.0

n38_Ant 9									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	Pl2 BPSK	1	1	18.80	18.84	18.81	20.0	0.0	0.0
40	Pl2 BPSK	1	53	18.85	18.91	18.73			
40	Pl2 BPSK	1	104	18.84	18.94	18.82			
40	Pl2 BPSK	50	0	18.87	18.93	18.72			
40	Pl2 BPSK	50	26	18.77	18.87	18.81	20.0	0.0	0.0
40	Pl2 BPSK	50	56	18.81	18.98	18.75	20.0	0.0	0.0
40	Pl2 BPSK	100	0	18.87	18.95	18.77			
40	QPSK	1	1	18.84	18.95	18.90	20.0	0.0	0.0
40	QPSK	1	53	18.91	18.98	18.90			
40	QPSK	1	104	18.81	18.99	18.91			
40	QPSK	50	0	18.89	18.86	18.73			
40	QPSK	50	26	18.84	18.89	18.83	20.0	0.0	0.0
40	QPSK	50	56	18.87	18.90	18.74			
40	QPSK	100	0	18.89	18.98	18.72	20.0		
40	16QAM	1	1	18.84	18.91	18.76	20.0	0.0	0.0
40	16QAM	1	1	18.87	18.93	18.73	20.0	0.0	0.0
40	256QAM	1	1	18.78	18.97	18.72	20.0		
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.81	18.91	18.82	20.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.81	18.95	18.77	20.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.80	18.97	18.75	20.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.83	18.86	18.75	20.0	0.0	0.0

n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				2566.01	2569.99	2568.00			
100	Pl2 BPSK	1	1	12.36	12.44	12.34		14.0	0.0
100	Pl2 BPSK	1	137	12.37	12.32	12.33			
100	Pl2 BPSK	1	271	12.26	12.44	12.39			
100	Pl2 BPSK	135	0	12.27	12.34	12.41	14.0		
100	Pl2 BPSK	135	69	12.37	12.44	12.38	14.0	0.0	0.0
100	Pl2 BPSK	135	136	12.34	12.36	12.32			
100	Pl2 BPSK	270	0	12.38	12.31	12.40			
100	QPSK	1	1	12.40	12.46	12.42		14.0	0.0
100	QPSK	1	137	12.31	12.35	12.28			
100	QPSK	1	271	12.30	12.44	12.41			
100	QPSK	135	0	12.33	12.31	12.29			
100	QPSK	135	69	12.36	12.36	12.27	14.0	0.0	0.0
100	QPSK	135	136	12.32	12.37	12.27			
100	QPSK	270	0	12.28	12.38	12.35	14.0		
100	16QAM	1	1	12.27	12.36	12.38	14.0	0.0	0.0
100	48QAM	1	1	12.26	12.36	12.31	14.0		
100	256QAM	1	1	12.25	12.39	12.37	14.0		
Channel									
Frequency (MHz)									
				5068.00	5068.00	5068.00	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	12.31	12.52.29	12.41.04			
Channel									
Frequency (MHz)									
				5072.04	5068.00	5069.98	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	12.34	12.34	12.30	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				2568.02	2569.99	2569.99	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	12.34	12.43	12.27	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				2561.01	2569.99	2565	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	12.37	12.34	12.33	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				9052.00	9052.00	9051.99	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	12.31	12.41	12.37	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				5442.04	5189.58	5330.98	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	12.28	12.39	12.40	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				5032.02	5189.58	5340.00	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	12.32	12.41	12.38	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				5022.00	5189.58	5330.98	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	12.32	12.35	12.38	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				2511	2569.99	2574.98	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	12.39	12.35	12.39	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				2568.02	2569.99	2579.99	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	12.29	12.34	12.30	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				2503.5	2569.99	2582.48	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	12.35	12.41	12.34	14.0	0.0	0.0
Channel									
Frequency (MHz)									
				5022.02	5189.58	5330.00	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	12.38	12.39	12.37	14.0	0.0	0.0

n41_Ant 1_HPUE									
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				506002	518698	536000			
Frequency (MHz)				2540.01	2592.99	2540			
100	PQ2 BPSK	1	1	12.33	12.43	12.34			
100	PQ2 BPSK	1	137	12.37	12.32	12.33	14.0	0.0	
100	PQ2 BPSK	1	271	12.26	12.44	12.39			
100	PQ2 BPSK	135	0	12.27	12.34	12.41	14.0	0.0	
100	PQ2 BPSK	135	69	12.37	12.44	12.38	14.0	0.0	
100	PQ2 BPSK	135	138	12.34	12.38	12.32	14.0	0.0	
100	PQ2 BPSK	270	0	12.38	12.31	12.40			
100	QPSK	1	1	12.43	12.48	12.42			
100	QPSK	1	137	12.31	12.39	12.28	14.0	0.0	
100	QPSK	1	271	12.30	12.44	12.41			
100	QPSK	135	0	12.33	12.31	12.29			
100	QPSK	135	69	12.37	12.39	12.38	14.0	0.0	
100	QPSK	135	138	12.32	12.37	12.27			
100	QPSK	270	0	12.28	12.38	12.35	14.0	0.0	
100	16QAM	1	1	12.27	12.38	12.38	14.0	0.0	
100	16QAM	1	1	12.26	12.38	12.31	14.0	0.0	
100	256QAM	1	1	12.25	12.39	12.37	14.0	0.0	
Channel				506000	518698	536006	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2544.98	(dBm)	(dB)	
90	QPSK	1	1	12.39	12.34	12.30	14.0	0.0	
Channel				507204	518698	529698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	12.34	12.43	12.27	14.0	0.0	
Channel				505502	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2685	(dBm)	(dB)	
70	QPSK	1	1	12.37	12.34	12.33	14.0	0.0	
Channel				505000	518698	531996	Tune-up limit	MPR	
Frequency (MHz)				2524	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	12.31	12.41	12.37	14.0	0.0	
Channel				504204	518698	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2684.99	(dBm)	(dB)	
50	QPSK	1	1	12.29	12.39	12.40	14.0	0.0	
Channel				503502	518698	536000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	12.32	12.41	12.38	14.0	0.0	
Channel				502200	518698	534998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	12.39	12.35	12.39	14.0	0.0	
Channel				507004	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	12.29	12.34	12.30	14.0	0.0	
Channel				500700	518698	538498	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	12.35	12.41	12.34	14.0	0.0	
Channel				506002	518698	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	12.35	12.39	12.37	14.0	0.0	



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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				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2540			
100	PI2 BPSK	1	1	14.95	15.00	14.88	16.5	0.0	
100	PI2 BPSK	1	137	15.07	14.98	15.00			
100	PI2 BPSK	1	271	14.97	14.98	14.95			
100	PI2 BPSK	135	0	14.99	15.07	15.01			
100	PI2 BPSK	135	69	15.00	15.02	15.00	16.5	0.0	
100	PI2 BPSK	135	138	15.01	15.04	14.90	16.5	0.0	
100	PI2 BPSK	270	0	15.05	15.00	14.88			
100	QPSK	1	1	15.02	15.10	15.02			
100	QPSK	1	137	14.94	14.95	14.95			
100	QPSK	1	271	15.02	14.97	14.99	16.5	0.0	
100	QPSK	135	0	15.02	14.99	14.87			
100	QPSK	135	69	15.01	15.05	15.04			
100	QPSK	135	138	14.93	14.96	14.93			
100	QPSK	270	0	14.97	15.02	14.94	16.5	0.0	
100	16QAM	1	1	14.98	15.02	14.88	16.5	0.0	
100	64QAM	1	1	14.94	14.99	15.00	16.5	0.0	
100	256QAM	1	1	15.04	15.07	14.91	16.5	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.01	14.98	14.95	16.5	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99			
80	QPSK	1	1	14.97	14.95	14.94	16.5	0.0	
Channel				507202	518598	537010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01 <td>2592.99</td> <td>2655</td> <th colspan="3"></th>	2592.99	2655			
70	QPSK	1	1	15.05	15.00	14.99	16.5	0.0	
Channel				502000	518598	531995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524 <td>2592.99</td> <td>2604.98</td> <th colspan="3"></th>	2592.99	2604.98			
60	QPSK	1	1	15.00	14.97	14.92	16.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02 <td>2592.99</td> <td>2604.99</td> <th colspan="3"></th>	2592.99	2604.99			
50	QPSK	1	1	15.07	14.97	14.90	16.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01 <td>2592.99</td> <td>2570</td> <th colspan="3"></th>	2592.99	2570			
40	QPSK	1	1	15.01	14.97	14.90	16.5	0.0	
Channel				502200	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511 <td>2592.99</td> <td>2674.98</td> <th colspan="3"></th>	2592.99	2674.98			
30	QPSK	1	1	15.04	15.07	14.90	16.5	0.0	
Channel				507204	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02 <td>2592.99</td> <td>2679.99</td> <th colspan="3"></th>	2592.99	2679.99			
20	QPSK	1	1	15.05	15.04	14.97	16.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5 <td>2592.99</td> <td>2682.48</td> <th colspan="3"></th>	2592.99	2682.48			
15	QPSK	1	1	14.95	15.08	14.96	16.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01 <td>2592.99</td> <td>2685</td> <th colspan="3"></th>	2592.99	2685			
10	QPSK	1	1	14.98	14.99	14.95	16.5	0.0	

n41_Ant 2_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.95	15.00	14.88	16.5	0.0	
100	PI2 BPSK	1	137	15.07	14.98	15.00			
100	PI2 BPSK	1	271	14.97	14.98	14.95			
100	PI2 BPSK	135	0	14.99	15.07	15.01			
100	PI2 BPSK	135	69	15.06	15.02	15.00	16.5	0.0	
100	PI2 BPSK	135	138	15.01	15.04	14.90	16.5	0.0	
100	PI2 BPSK	270	0	15.05	15.00	14.88			
100	QPSK	1	1	15.03	15.10	15.02			
100	QPSK	1	137	14.94	14.94	14.95			
100	QPSK	1	271	15.02	14.97	14.99	16.5	0.0	
100	QPSK	135	0	15.02	14.99	14.87			
100	QPSK	135	69	15.01	15.05	15.04			
100	QPSK	135	138	14.93	14.96	14.93			
100	QPSK	270	0	14.97	15.02	14.94	16.5	0.0	
100	16QAM	1	1	14.98	15.02	14.88	16.5	0.0	
100	64QAM	1	1	14.94	14.99	15.00	16.5	0.0	
100	256QAM	1	1	15.04	15.07	14.91	16.5	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	16.5		
90	QPSK	1	1	15.01	14.94	14.85	16.5	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2648.99	16.5		
80	QPSK	1	1	14.97	14.95	14.94	16.5	0.0	
Channel				507202	518598	537010	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	16.5		
70	QPSK	1	1	15.05	15.00	14.99	16.5	0.0	
Channel				502000	518598	531995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2604.98	16.5		
60	QPSK	1	1	15.00	14.97	14.92	16.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2604.99	16.5		
50	QPSK	1	1	15.07	14.97	14.90	16.5	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2570	16.5		
40	QPSK	1	1	15.01	14.97	14.90	16.5	0.0	
Channel				502200	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	16.5		
30	QPSK	1	1	15.04	15.07	14.90	16.5	0.0	
Channel				507204	518598	535995	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	16.5		
20	QPSK	1	1	15.05	15.04	14.97	16.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2592.99	2682.48	16.5		
15	QPSK	1	1	14.95	15.08	14.96	16.5	0.0	
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2685	16.5		
10	QPSK	1	1	14.98	14.95	14.95	16.5	0.0	



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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				506002	518598	526000					
Frequency (MHz)				2541.01	2592.99	2540					
100	PQ2 BPSK	1	1	12.05	12.13	12.01	13.5	0.0			
100	PQ2 BPSK	1	137	12.08	12.10	12.02					
100	PQ2 BPSK	1	271	11.98	12.12	12.06					
100	PQ2 BPSK	135	0	12.08	12.10	12.00					
100	PQ2 BPSK	135	69	12.10	12.16	12.04	13.5	0.0			
100	PQ2 BPSK	135	138	11.97	12.13	12.10	13.5	0.0			
100	PQ2 BPSK	270	0	11.97	12.10	12.06					
100	QPSK	1	1	12.12	12.20	12.15					
100	QPSK	1	137	12.02	12.06	12.10		0.0			
100	QPSK	1	271	11.97	12.17	12.03	13.5				
100	QPSK	135	0	12.03	12.12	12.10					
100	QPSK	135	69	12.05	12.16	12.13					
100	QPSK	135	138	12.01	12.06	12.06					
100	QPSK	270	0	12.02	12.14	12.06	13.5	0.0			
100	16QAM	1	1	12.00	12.15	12.12	13.5	0.0			
100	64QAM	1	1	11.99	12.17	12.06	13.5	0.0			
100	256QAM	1	1	12.05	12.19	12.05	13.5	0.0			
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2541	2592.99	2644.98					
90	QPSK	1	1	12.05	12.17	12.13	13.5	0.0			
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2536.02	2592.99	2648.99					
80	QPSK	1	1	12.09	12.12	12.10	13.5	0.0			
Channel				51052	518598	531010	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2531.01	2592.99	2685					
70	QPSK	1	1	12.03	12.18	12.13	13.5	0.0			
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2524	2592.99	2698.98					
60	QPSK	1	1	12.05	12.19	12.12	13.5	0.0			
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2521.02	2592.99	2684.99					
50	QPSK	1	1	12.08	12.05	12.05	13.5	0.0			
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2516.01	2592.99	2670					
40	QPSK	1	1	12.00	12.12	12.12	13.5	0.0			
Channel				502000	518598	535966	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2511	2592.99	2674.98					
30	QPSK	1	1	12.07	12.17	12.07	13.5	0.0			
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2506.02	2592.99	2679.99					
20	QPSK	1	1	12.11	12.08	12.14	13.5	0.0			
Channel				500700	518598	537000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2603.5	2592.99	2682.48					
15	QPSK	1	1	11.98	12.15	12.02	13.5	0.0			
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2601.01	2592.99	2685					
10	QPSK	1	1	12.01	12.12	12.06	13.5	0.0			

n41_Ant 5_HPUE											
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				506002	518598	526000					
Frequency (MHz)				2546.01	2592.99	2640					
100	PQ2 BPSK	1	1	12.05	12.13	12.01	13.5	0.0			
100	PQ2 BPSK	1	137	12.08	12.10	12.02					
100	PQ2 BPSK	1	271	11.98	12.12	12.06					
100	PQ2 BPSK	135	0	12.08	12.10	12.00					
100	PQ2 BPSK	135	69	12.10	12.16	12.04	13.5	0.0			
100	PQ2 BPSK	135	138	11.97	12.13	12.10	13.5	0.0			
100	PQ2 BPSK	270	0	11.97	12.10	12.06					
100	QPSK	1	1	12.12	12.20	12.15					
100	QPSK	1	137	12.02	12.06	12.10		0.0			
100	QPSK	1	271	11.97	12.17	12.03	13.5				
100	QPSK	135	0	12.03	12.12	12.10					
100	QPSK	135	69	12.05	12.16	12.13					
100	QPSK	135	138	12.01	12.06	12.06					
100	QPSK	270	0	12.02	12.14	12.06	13.5	0.0			
100	16QAM	1	1	12.00	12.15	12.12	13.5	0.0			
100	64QAM	1	1	11.99	12.17	12.06	13.5	0.0			
100	256QAM	1	1	12.05	12.19	12.05	13.5	0.0			
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2541	2592.99	2648.98	13.5	0.0			
90	QPSK	1	1	12.05	12.17	12.13	13.5	0.0			
Channel				507204	518598	520968	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2536.02	2592.99	2648.99	13.5	0.0			
80	QPSK	1	1	12.08	12.12	12.10	13.5	0.0			
Channel				52552	518598	531010	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2631.01	2592.99	2685	13.5	0.0			
70	QPSK	1	1	12.03	12.18	12.13	13.5	0.0			
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2524	2592.99	2698.98	13.5	0.0			
60	QPSK	1	1	12.05	12.19	12.12	13.5	0.0			
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2521.02	2592.99	2684.99	13.5	0.0			
50	QPSK	1	1	12.08	12.05	12.05	13.5	0.0			
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2516.01	2592.99	2670	13.5	0.0			
40	QPSK	1	1	12.00	12.12	12.12	13.5	0.0			
Channel				522505	518598	535966	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2511	2592.99	2674.98	13.5	0.0			
30	QPSK	1	1	12.07	12.17	12.07	13.5	0.0			
Channel				507204	518598	532968	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2506.02	2592.99	2679.99	13.5	0.0			
20	QPSK	1	1	12.11	12.08	12.14	13.5	0.0			
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2603.5	2592.99	2682.48	13.5	0.0			
15	QPSK	1	1	11.98	12.15	12.02	13.5	0.0			
Channel				506002	518598	537000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2201.01	2592.99	2685	13.5	0.0			
10	QPSK	1	1	12.01	12.12	12.06	13.5	0.0			

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				506002	518098	536000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PQ2 BPSK	1	1	20.97	21.01	20.91		
100	PQ2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PQ2 BPSK	1	271	20.93	21.11	20.89		
100	PQ2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PQ2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PQ2 BPSK	135	138	20.75	21.01	20.89	22.5	0.0
100	PQ2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.06		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	64QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506000	518098	536096	Tune-up limit	MFR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MFR
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)
80	QPSK	1	1	21.09	21.04	20.91	22.5	0.0
Channel				505202	518098	537000	Tune-up limit	MFR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				505200	518098	531996	Tune-up limit	MFR
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518098	532608	Tune-up limit	MFR
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	21.05	21.11	20.90	22.5	0.0
Channel				503202	518098	536000	Tune-up limit	MFR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.06	20.99	20.82	22.5	0.0
Channel				502200	518098	535000	Tune-up limit	MFR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518098	532608	Tune-up limit	MFR
Frequency (MHz)				2508.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518098	536496	Tune-up limit	MFR
Frequency (MHz)				2603.5	2592.99	2683.48	(dBm)	(dB)
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				500202	518098	537000	Tune-up limit	MFR
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	21.07	21.05	20.94	22.5	0.0

n41_Ant 6_HPUE									
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				506002	518098	536000			
Frequency (MHz)				2540.01	2592.99	2640			
100	PQ2 BPSK	1	1	22.84	22.74	22.67			
100	PQ2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0	
100	PQ2 BPSK	1	271	22.71	22.93	22.61			
100	PQ2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5	
100	PQ2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0	
100	PQ2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5	
100	PQ2 BPSK	270	0	22.26	22.19	22.28			
100	QPSK	1	1	22.81	22.88	22.86			
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0	
100	QPSK	1	271	22.61	22.48	22.63			
100	QPSK	135	0	21.73	21.75	21.76			
100	QPSK	135	69	22.67	22.67	22.70	24.5	0.0	
100	QPSK	135	138	21.62	21.71	21.71			
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0	
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0	
100	64QAM	1	1	20.46	20.64	20.48	22.0	2.5	
100	256QAM	1	1	18.25	18.36	18.31	20.0	4.5	
Channel				506000	518098	536096	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	22.83	22.88	22.79	24.5	0.0	
Channel				507204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2648.98	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0	
Channel				505202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0	
Channel				505200	518098	531996	Tune-up limit	MPR	
Frequency (MHz)				2534	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0	
Channel				504204	518098	532698	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	22.93	22.94	22.83	24.5	0.0	
Channel				503202	518098	536000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	22.90	22.94	22.79	24.5	0.0	
Channel				502200	518098	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0	
Channel				501204	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0	
Channel				500700	518098	536496	Tune-up limit	MPR	
Frequency (MHz)				2493.15	2592.99	2684.48	(dBm)	(dB)	
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0	
Channel				500202	518098	537000	Tune-up limit	MPR	
Frequency (MHz)				2481.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0	



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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				506002	518598	526000			
Frequency (MHz)				2541.01	2552.99	2560			
100	PQ2 BPSK	1	1	18.97	19.07	19.02			
100	PQ2 BPSK	1	137	18.98	19.04	19.00	20.0	0.0	
100	PQ2 BPSK	1	271	19.06	19.07	19.06			
100	PQ2 BPSK	135	0	19.05	19.15	19.09	20.0	0.0	
100	PQ2 BPSK	135	69	19.09	19.05	19.05	20.0	0.0	
100	PQ2 BPSK	135	138	18.98	19.07	19.11	20.0	0.0	
100	PQ2 BPSK	270	0	19.09	19.09	19.13			
100	QPSK	1	1	19.12	19.19	19.15			
100	QPSK	1	137	19.01	19.05	19.05	20.0	0.0	
100	QPSK	1	271	19.05	19.11	19.12			
100	QPSK	135	0	18.98	19.10	19.12			
100	QPSK	135	69	19.01	19.16	19.14	20.0	0.0	
100	QPSK	135	138	19.00	19.12	19.05			
100	QPSK	270	0	19.06	19.10	19.09	20.0	0.0	
100	16QAM	1	1	18.98	19.12	19.00	20.0	0.0	
100	64QAM	1	1	18.98	19.07	19.06	20.0	0.0	
100	256QAM	1	1	18.99	19.12	19.00	20.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.99	2544.98			
90	QPSK	1	1	19.00	19.10	19.08	20.0	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2562.99	2549.99			
80	QPSK	1	1	19.07	19.13	19.10	20.0	0.0	
Channel				2552.02	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2562.99	2555			
70	QPSK	1	1	19.07	19.10	19.08	20.0	0.0	
Channel				502000	518598	531006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2562.99	2559.98			
60	QPSK	1	1	19.10	19.10	19.00	20.0	0.0	
Channel				504204	518598	532008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2552.99	2554.99			
50	QPSK	1	1	19.10	19.13	19.05	20.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2552.99	2570			
40	QPSK	1	1	19.05	19.04	19.07	20.0	0.0	
Channel				522000	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98			
30	QPSK	1	1	19.00	19.16	19.04	20.0	0.0	
Channel				507204	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2552.99	2579.99			
20	QPSK	1	1	19.08	19.10	19.06	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2552.99	2652.48			
15	QPSK	1	1	19.00	19.09	19.12	20.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2552.99	2565			
10	QPSK	1	1	19.07	19.14	19.07	20.0	0.0	

n41_Ant 9_HPUE									
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				506002	518598	526000			
Frequency (MHz)				2541.01	2552.99	2560			
100	PQ2 BPSK	1	1	18.97	19.07	19.02			
100	PQ2 BPSK	1	137	18.98	19.04	19.00	20.0	0.0	
100	PQ2 BPSK	1	271	19.06	19.07	19.06			
100	PQ2 BPSK	135	0	19.05	19.15	19.09	20.0	0.0	
100	PQ2 BPSK	135	69	19.09	19.05	19.05	20.0	0.0	
100	PQ2 BPSK	135	138	18.98	19.07	19.11	20.0	0.0	
100	PQ2 BPSK	270	0	19.09	19.09	19.13			
100	QPSK	1	1	19.12	19.19	19.15			
100	QPSK	1	137	19.01	19.05	19.05	20.0	0.0	
100	QPSK	1	271	19.05	19.11	19.12			
100	QPSK	135	0	18.98	19.10	19.12			
100	QPSK	135	69	19.01	19.16	19.14	20.0	0.0	
100	QPSK	135	138	19.00	19.12	19.05			
100	QPSK	270	0	19.06	19.10	19.09	20.0	0.0	
100	16QAM	1	1	18.98	19.12	19.00	20.0	0.0	
100	64QAM	1	1	18.98	19.07	19.06	20.0	0.0	
100	256QAM	1	1	18.99	19.12	19.00	20.0	0.0	
Channel				506000	518598	526006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.99	2544.98			
90	QPSK	1	1	19.00	19.10	19.08	20.0	0.0	
Channel				507204	518598	526008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2562.99	2549.99			
80	QPSK	1	1	19.07	19.13	19.10	20.0	0.0	
Channel				522002	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2562.99	2555			
70	QPSK	1	1	19.07	19.10	19.08	20.0	0.0	
Channel				502000	518598	531006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2562.99	2559.98			
60	QPSK	1	1	19.10	19.10	19.00	20.0	0.0	
Channel				504204	518598	532008	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2552.99	2554.99			
50	QPSK	1	1	19.10	19.13	19.05	20.0	0.0	
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2552.99	2570			
40	QPSK	1	1	19.05	19.04	19.07	20.0	0.0	
Channel				522000	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2562.99	2674.98			
30	QPSK	1	1	19.00	19.16	19.04	20.0	0.0	
Channel				507204	518598	535006	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2552.99	2579.99			
20	QPSK	1	1	19.08	19.10	19.06	20.0	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2552.99	2652.48			
15	QPSK	1	1	19.00	19.09	19.12	20.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2552.99	2565			
10	QPSK	1	1	19.07	19.14	19.07	20.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				1370	3024.99	3079.98			
40	PQ2 BPSK	1	1	14.23	14.40	14.34			
40	PQ2 BPSK	1	53	14.26	14.31	14.32	15.5	0.0	
40	PQ2 BPSK	1	104	14.36	14.38	14.34			
40	PQ2 BPSK	50	0	14.36	14.38	14.32	15.5	0.0	
40	PQ2 BPSK	50	26	14.30	14.28	14.28	15.5	0.0	
40	PQ2 BPSK	50	56	14.33	14.39	14.33			
40	PQ2 BPSK	100	0	14.23	14.40	14.35	15.5	0.0	
40	QPSK	1	1	14.30	14.42	14.40			
40	QPSK	1	53	14.26	14.33	14.31	15.5	0.0	
40	QPSK	1	104	14.30	14.33	14.38			
40	QPSK	50	0	14.32	14.36	14.33			
40	QPSK	50	26	14.36	14.38	14.32	15.5	0.0	
40	QPSK	50	56	14.29	14.31	14.30			
40	QPSK	100	0	14.27	14.32	14.30	15.5	0.0	
40	16QAM	1	1	14.26	14.30	14.31	15.5	0.0	
40	64QAM	1	1	14.34	14.32	14.30	15.5	0.0	
40	256QAM	1	1	14.32	14.36	14.37	15.5	0.0	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3055.02	3024.99	3034.99	(dBm)	(dB)	
30	QPSK	1	1	14.25	14.34	14.32	15.5	0.0	
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3060.01	3024.99	3060	(dBm)	(dB)	
20	QPSK	1	1	14.35	14.41	14.38	15.5	0.0	
Channel				637500	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3055	3024.99	3064.98	(dBm)	(dB)	
10	QPSK	1	1	14.34	14.27	14.31	15.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				1370	3024.99	3079.98			
40	PQ2 BPSK	1	1	12.13	12.09	12.05			
40	PQ2 BPSK	1	53	12.08	12.12	12.12	13.5	0.0	
40	PQ2 BPSK	1	104	12.02	12.15	12.16			
40	PQ2 BPSK	50	0	12.04	12.17	12.15	13.5	0.0	
40	PQ2 BPSK	50	26	12.01	12.07	12.12	13.5	0.0	
40	PQ2 BPSK	50	56	12.06	12.13	12.10			
40	PQ2 BPSK	100	0	12.11	12.09	12.13	13.5	0.0	
40	QPSK	1	1	12.15	12.20	12.19			
40	QPSK	1	53	12.05	12.14	12.17	13.5	0.0	
40	QPSK	1	104	12.10	12.18	12.16			
40	QPSK	50	0	12.11	12.13	12.09			
40	QPSK	50	26	12.11	12.15	12.14	13.5	0.0	
40	QPSK	50	56	12.05	12.12	12.13			
40	QPSK	100	0	12.10	12.13	12.12	13.5	0.0	
40	16QAM	1	1	12.11	12.07	12.08	13.5	0.0	
40	64QAM	1	1	12.11	12.13	12.14	13.5	0.0	
40	256QAM	1	1	12.04	12.13	12.15	13.5	0.0	
Channel				637668	641666	645666	Tune-up limit	MPR	
Frequency (MHz)				3055.02	3034.99	3034.99	(dBm)	(dB)	
30	QPSK	1	1	12.11	12.17	12.07	13.5	0.0	
Channel				637234	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3060.01	3024.99	3060	(dBm)	(dB)	
20	QPSK	1	1	12.13	12.17	12.06	13.5	0.0	
Channel				637500	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3055	3024.99	3064.98	(dBm)	(dB)	
10	QPSK	1	1	12.02	12.10	12.04	13.5	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3270	3273.18	3276.36			
40	PI2 BPSK	1	1	15.79	15.80	15.84	17.0	0.0	
40	PI2 BPSK	1	53	15.84	15.85	15.86			
40	PI2 BPSK	1	104	15.81	15.95	15.80			
40	PI2 BPSK	50	0	15.81	15.86	15.94	17.0	0.0	
40	PI2 BPSK	50	26	15.86	15.88	15.94	17.0	0.0	
40	PI2 BPSK	50	56	15.82	15.92	15.80	17.0	0.0	
40	PI2 BPSK	100	0	15.88	15.94	15.89			
40	QPSK	1	1	15.93	16.00	15.99		0.0	
40	QPSK	1	53	15.88	15.93	15.80	17.0		
40	QPSK	1	104	15.84	15.99	15.88	17.0	0.0	
40	QPSK	50	0	15.90	15.94	15.82			
40	QPSK	50	26	15.86	15.87	15.84			
40	QPSK	50	56	15.91	15.94	15.83	17.0	0.0	
40	QPSK	100	0	15.87	15.95	15.88			
40	16QAM	1	1	15.85	15.87	15.93	17.0	0.0	
40	16QAM	1	1	15.86	15.88	15.82	17.0	0.0	
40	256QAM	1	1	15.91	15.87	15.81	17.0	0.0	
Channel				637668	641666	645668	Tune-up limit	MPR	
Frequency (MHz)				3565.02	3624.99	3684.98	(dBm)	(dB)	
30	QPSK	1	1	15.84	15.88	15.94	17.0	0.0	
Channel				637334	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	15.84	15.99	15.83	17.0	0.0	
Channel				637000	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3565	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	15.84	15.94	15.93	17.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F Freq.	Power Max Ch. F Freq.	Power High Ch. F Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3270	3274.99	3279.98			
40	PI2 BPSK	1	1	11.85	11.85	11.89	13.0	0.0	
40	PI2 BPSK	1	53	11.79	11.86	11.91			
40	PI2 BPSK	1	104	11.86	11.87	11.87			
40	PI2 BPSK	50	0	11.87	11.85	11.87	13.0	0.0	
40	PI2 BPSK	50	26	11.92	11.98	11.82	13.0	0.0	
40	PI2 BPSK	50	56	11.82	11.97	11.88	13.0	0.0	
40	PI2 BPSK	100	0	11.80	11.95	11.84			
40	QPSK	1	1	11.91	12.00	11.90		0.0	
40	QPSK	1	53	11.81	11.97	11.90	13.0		
40	QPSK	1	104	11.79	11.95	11.89	13.0	0.0	
40	QPSK	50	0	11.88	11.90	11.83			
40	QPSK	50	26	11.91	11.97	11.87			
40	QPSK	50	56	11.82	11.94	11.84	13.0	0.0	
40	QPSK	100	0	11.88	11.94	11.86			
40	16QAM	1	1	11.91	11.86	11.94	13.0	0.0	
40	16QAM	1	1	11.82	11.89	11.86	13.0	0.0	
40	256QAM	1	1	11.92	11.94	11.88	13.0	0.0	
Channel				637668	641666	646068	Tune-up limit	MPR	
Frequency (MHz)				3565.02	3624.99	3684.99	(dBm)	(dB)	
30	QPSK	1	1	11.79	11.89	11.90	13.0	0.0	
Channel				637334	641666	646000	Tune-up limit	MPR	
Frequency (MHz)				3560.01	3624.99	3690	(dBm)	(dB)	
20	QPSK	1	1	11.80	11.90	11.80	13.0	0.0	
Channel				637000	641666	645332	Tune-up limit	MPR	
Frequency (MHz)				3565	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	11.92	11.86	11.94	13.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	12.55	12.74	12.61		
100	P12 BPSK	1	137	12.80	12.72	12.66	13.5	0.0
100	P12 BPSK	1	271	12.53	12.72	12.65		
100	P12 BPSK	135	0	12.63	12.71	12.69	13.5	0.0
100	P12 BPSK	135	46	12.57	12.65	12.68	13.5	0.0
100	P12 BPSK	135	138	12.87	12.62	12.62		
100	P12 BPSK	270	0	12.65	12.63	12.69	13.5	0.0
100	QPSK	1	1	12.50	12.75	12.70		
100	QPSK	1	137	12.54	12.64	12.59	13.5	0.0
100	QPSK	1	271	12.58	12.67	12.62		
100	QPSK	135	0	12.62	12.67	12.65		
100	QPSK	135	69	12.67	12.66	12.67	13.5	0.0
100	QPSK	135	138	12.84	12.61	12.60		
100	QPSK	270	0	12.53	12.72	12.55	13.5	0.0
100	16QAM	1	1	12.61	12.66	12.69	13.5	0.0
100	16QAM	1	1	12.61	12.62	12.61	13.5	0.0
100	256QAM	1	1	12.61	12.67	12.57	13.5	0.0
Channel								
Frequency (MHz)				648668	650000	662332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3743.02	3840	3934.98		
90	QPSK	1	1	12.61	12.73	12.56	13.5	0.0
Channel								
Frequency (MHz)				648334	650000	662066	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	QPSK	1	1	12.56	12.61	12.66	13.5	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	12.54	12.62	12.61	13.5	0.0
Channel								
Frequency (MHz)				648998	650000	663332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.02	3840	3949.98		
60	QPSK	1	1	12.59	12.68	12.55	13.5	0.0
Channel								
Frequency (MHz)				648334	650000	663998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3954.99		
50	QPSK	1	1	12.60	12.71	12.56	13.5	0.0
Channel								
Frequency (MHz)				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	12.62	12.70	12.59	13.5	0.0
Channel								
Frequency (MHz)				647668	650000	664332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3716.02	3840	3964.98		
30	QPSK	1	1	12.53	12.68	12.68	13.5	0.0
Channel								
Frequency (MHz)				647234	650000	664866	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3969.99		
20	QPSK	1	1	12.54	12.72	12.64	13.5	0.0
Channel								
Frequency (MHz)				647168	650000	664932	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.50	3840	3972.48		
15	QPSK	1	1	12.67	12.60	12.65	13.5	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	12.63	12.69	12.68	13.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	12.55	12.74	12.61		
100	P12 BPSK	1	137	12.80	12.72	12.66	13.5	0.0
100	P12 BPSK	1	271	12.53	12.72	12.65		
100	P12 BPSK	135	0	12.63	12.71	12.69	13.5	0.0
100	P12 BPSK	135	46	12.57	12.65	12.68	13.5	0.0
100	P12 BPSK	135	138	12.87	12.62	12.62		
100	P12 BPSK	270	0	12.65	12.63	12.69	13.5	0.0
100	QPSK	1	1	12.50	12.75	12.70		
100	QPSK	1	137	12.54	12.64	12.59	13.5	0.0
100	QPSK	1	271	12.58	12.67	12.62		
100	QPSK	135	0	12.62	12.67	12.65		
100	QPSK	135	69	12.67	12.66	12.67	13.5	0.0
100	QPSK	135	138	12.84	12.61	12.60		
100	QPSK	270	0	12.53	12.65	12.55	13.5	0.0
100	16QAM	1	1	12.61	12.66	12.69	13.5	0.0
100	16QAM	1	1	12.61	12.62	12.61	13.5	0.0
100	256QAM	1	1	12.61	12.67	12.57	13.5	0.0
Channel								
Frequency (MHz)				648668	650000	662332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3743.02	3840	3934.98		
90	QPSK	1	1	12.61	12.73	12.56	13.5	0.0
Channel								
Frequency (MHz)				648334	650000	662066	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3939.99		
80	QPSK	1	1	12.56	12.61	12.66	13.5	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	12.54	12.62	12.61	13.5	0.0
Channel								
Frequency (MHz)				648668	650000	663332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3743.01	3840	3944.99		
60	QPSK	1	1	12.59	12.68	12.55	13.5	0.0
Channel								
Frequency (MHz)				648334	650000	663998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3949.99		
50	QPSK	1	1	12.60	12.71	12.56	13.5	0.0
Channel								
Frequency (MHz)				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	12.62	12.70	12.59	13.5	0.0
Channel								
Frequency (MHz)				647668	650000	664332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3716.02	3840	3964.98		
30	QPSK	1	1	12.53	12.68	12.68	13.5	0.0
Channel								
Frequency (MHz)				647234	650000	664866	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3969.99		
20	QPSK	1	1	12.54	12.72	12.64	13.5	0.0
Channel								
Frequency (MHz)				647168	650000	664932	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.48		
15	QPSK	1	1	12.67	12.60	12.65	13.5	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	12.63	12.69	12.68	13.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3498.98	3504.99			
100	P12 BPSK	1	1	12.60				
100	P12 BPSK	1	137	12.51			13.5	0.0
100	P12 BPSK	1	271	12.49				
100	P12 BPSK	135	0	12.59			13.5	0.0
100	P12 BPSK	135	66	12.49			13.5	0.0
100	P12 BPSK	135	138	12.47			13.5	0.0
100	P12 BPSK	270	0	12.56				
100	QPSK	1	1	12.62				
100	QPSK	1	137	12.53			13.5	0.0
100	QPSK	1	271	12.54				
100	QPSK	135	0	12.52				
100	QPSK	135	66	12.57			13.5	0.0
100	QPSK	135	138	12.49				
100	QPSK	270	0	12.48			13.5	0.0
100	16QAM	1	1	12.48			13.5	0.0
100	16QAM	1	1	12.51			13.5	0.0
100	256QAM	1	1	12.50			13.5	0.0
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	12.53	12.48	12.50	13.5	0.0
Channel								
Frequency (MHz)				632666	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	12.54	12.51	12.48	13.5	0.0
Channel								
Frequency (MHz)				632332	633000	633666	Tune-up limit	MPR
Frequency (MHz)				3485.04	3494.98	3504.99	(dBm)	(dB)
70	QPSK	1	1	12.49	12.47	12.49	13.5	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480.06	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	12.58	12.52	12.50	13.5	0.0
Channel								
Frequency (MHz)				631666	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.08	3499.98	3505	(dBm)	(dB)
50	QPSK	1	1	12.52	12.58	12.56	13.5	0.0
Channel								
Frequency (MHz)				631332	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.10	3499.98	3509.99	(dBm)	(dB)
40	QPSK	1	1	12.55	12.56	12.48	13.5	0.0
Channel								
Frequency (MHz)				631000	633332	636666	Tune-up limit	MPR
Frequency (MHz)				3465.12	3499.98	3504.99	(dBm)	(dB)
30	QPSK	1	1	12.49	12.55	12.49	13.5	0.0
Channel								
Frequency (MHz)				630666	633332	637000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3504.99	(dBm)	(dB)
20	QPSK	1	1	12.56	12.50	12.38	13.5	0.0
Channel								
Frequency (MHz)				630332	633332	638666	Tune-up limit	MPR
Frequency (MHz)				3455.04	3499.98	3504.99	(dBm)	(dB)
15	QPSK	1	1	12.54	12.59	12.54	13.5	0.0
Channel								
Frequency (MHz)				630000	633332	639332	Tune-up limit	MPR
Frequency (MHz)				3450.06	3499.98	3504.99	(dBm)	(dB)
10	QPSK	1	1	12.58	12.48	12.53	13.5	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)				633300	633332	633366	Tune-up limit (dBm)	MPR (dB)	
100	Pi2 BPSK	1	1	12.60					
100	Pi2 BPSK	1	137	12.51			13.5	0.0	
100	Pi2 BPSK	1	271	12.49					
100	Pi2 BPSK	135	0	12.59			13.5	0.0	
100	Pi2 BPSK	135	66	12.48			13.5	0.0	
100	Pi2 BPSK	135	138	12.47			13.5	0.0	
100	Pi2 BPSK	270	0	12.56					
100	QPSK	1	1	12.62					
100	QPSK	1	137	12.53			13.5	0.0	
100	QPSK	1	271	12.54					
100	QPSK	135	0	12.52					
100	QPSK	135	66	12.57			13.5	0.0	
100	QPSK	135	138	12.49					
100	QPSK	270	0	12.48			13.5	0.0	
100	16QAM	1	1	12.48			13.5	0.0	
100	64QAM	1	1	12.51			13.5	0.0	
100	256QAM	1	1	12.59			13.5	0.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	12.53	12.48	12.50	13.5	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.54	12.51	12.48	13.5	0.0	
Channel									
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	12.49	12.47	12.49	13.5	0.0	
Channel									
Frequency (MHz)				632000	633332	633668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	12.58	12.52	12.50	13.5	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	12.52	12.58	12.56	13.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	12.55	12.55	12.48	13.5	0.0	
Channel									
Frequency (MHz)				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	12.59	12.55	12.49	13.5	0.0	
Channel									
Frequency (MHz)				3490.02	3499.98	3500	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.56	12.50	12.58	13.5	0.0	
Channel									
Frequency (MHz)				630500	633332	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	12.54	12.59	12.54	13.5	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	12.58	12.48	12.53	13.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	Pi2 BPSK	1	1	13.04	13.04	12.91			
100	Pi2 BPSK	1	137	12.89	13.02	12.97	14.0	0.0	
100	Pi2 BPSK	135	0	13.02	13.06	13.00	14.0	0.0	
100	Pi2 BPSK	135	66	12.88	13.02	12.89	14.0	0.0	
100	Pi2 BPSK	135	138	12.90	12.98	12.88			
100	Pi2 BPSK	270	0	12.81	12.95	12.91	14.0	0.0	
100	QPSK	1	1	13.05	13.10	13.01			
100	QPSK	1	137	12.91	13.06	12.97	14.0	0.0	
100	QPSK	1	271	13.00	13.01	12.92			
100	QPSK	135	0	13.00	13.03	12.91			
100	QPSK	135	66	12.95	13.05	12.95	14.0	0.0	
100	QPSK	135	138	12.93	12.96	12.88			
100	QPSK	270	0	12.85	12.99	12.84	14.0	0.0	
100	16QAM	1	1	12.95	12.96	12.86	14.0	0.0	
100	64QAM	1	1	12.96	13.04	12.99	14.0	0.0	
100	256QAM	1	1	12.92	12.97	12.85	14.0	0.0	
Channel									
Frequency (MHz)				646668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	13.06	13.07	13.07	14.0	0.0	
Channel									
Frequency (MHz)				646334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.96	13.08	12.95	14.0	0.0	
Channel									
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	13.04	12.99	13.03	14.0	0.0	
Channel									
Frequency (MHz)				648968	650000	653332	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	12.98	13.05	13.09	14.0	0.0	
Channel									
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	13.05	13.06	12.97	14.0	0.0	
Channel									
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	13.00	13.04	12.98	14.0	0.0	
Channel									
Frequency (MHz)				647668	650000	654332	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	13.04	13.08	13.09	14.0	0.0	
Channel									
Frequency (MHz)				3710.01	3840	3960.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.96	13.08	12.99	14.0	0.0	
Channel									
Frequency (MHz)				647168	650000	654832	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	13.02	13.09	12.97	14.0	0.0	
Channel									
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	12.96	13.01	12.95	14.0	0.0	

Par270 n77_Ant 7_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3640	3630			
100	Pi2 BPSK	1	1	13.04	13.04	12.91			
100	Pi2 BPSK	1	137	12.89	13.02	12.97	14.0	0.0	
100	Pi2 BPSK	1	271	12.89	13.00	12.94			
100	Pi2 BPSK	135	0	13.02	13.06	13.00	14.0	0.0	
100	Pi2 BPSK	135	66	12.88	13.02	12.86	14.0	0.0	
100	Pi2 BPSK	135	138	12.90	12.98	12.88			
100	Pi2 BPSK	270	0	12.81	12.95	12.91	14.0	0.0	
100	QPSK	1	1	13.05	13.10	13.01			
100	QPSK	1	137	12.91	13.06	12.97	14.0	0.0	
100	QPSK	1	271	13.00	13.01	12.92			
100	QPSK	135	0	13.00	13.03	12.91			
100	QPSK	135	66	12.95	13.05	12.95	14.0	0.0	
100	QPSK	135	138	12.93	12.95	12.88			
100	QPSK	270	0	12.85	12.95	12.84	14.0	0.0	
100	16QAM	1	1	12.95	12.96	12.86	14.0	0.0	
100	64QAM	1	1	12.96	13.04	12.99	14.0	0.0	
100	256QAM	1	1	12.92	12.97	12.85	14.0	0.0	
Channel									
Frequency (MHz)				3646.98	650000	3623.32	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	13.04	13.07	13.07	14.0	0.0	
Channel									
Frequency (MHz)				3743.01	3640	3630.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.95	13.06	12.95			
80	QPSK	1	137	12.86	13.00	12.93	14.0	0.0	
Channel									
Frequency (MHz)				3735	3640	3645			
70	QPSK	1	1	13.04	12.99	13.03	14.0	0.0	
70	QPSK	1	137	12.86	13.00	12.93	14.0	0.0	
Channel									
Frequency (MHz)				3732.02	3640	3649.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	12.98	13.09	13.09	14.0	0.0	
Channel									
Frequency (MHz)				3633.01	650000	3636.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	13.06	13.06	12.97	14.0	0.0	
Channel									
Frequency (MHz)				3648.00	650000	3644.00	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	12.95	13.06	12.95			
40	QPSK	1	1	13.06	13.04	12.98	14.0	0.0	
Channel									
Frequency (MHz)				3648.98	650000	3643.32	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	13.04	13.08	13.09	14.0	0.0	
Channel									
Frequency (MHz)				3743.01	3640	3630.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.96	13.06	12.99	14.0	0.0	
20	QPSK	1	1	13.04	13.00	12.93	14.0	0.0	
Channel									
Frequency (MHz)				3637.52	3640	3637.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	13.02	13.09	12.97	14.0	0.0	
Channel									
Frequency (MHz)				3630.00	650000	3634.00	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	12.96	13.01	12.95	14.0	0.0	



Par27Q n77_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633332	633332	3493.98			
100	Pl2 BPSK	1	1	12.72					
100	Pl2 BPSK	1	137	12.62			14.0	0.0	
100	Pl2 BPSK	1	271	12.67					
100	Pl2 BPSK	135	0	12.73			14.0	0.0	
100	Pl2 BPSK	135	66	12.61			14.0	0.0	
100	Pl2 BPSK	135	138	12.71			14.0	0.0	
100	Pl2 BPSK	270	0	12.65					
100	QPSK	1	1	12.75					
100	QPSK	1	137	12.66			14.0	0.0	
100	QPSK	1	271	12.72					
100	QPSK	135	0	12.63					
100	QPSK	135	66	12.72			14.0	0.0	
100	QPSK	135	138	12.68					
100	QPSK	270	0	12.69			14.0	0.0	
100	16QAM	1	1	12.68			14.0	0.0	
100	64QAM	1	1	12.63			14.0	0.0	
100	256QAM	1	1	12.65			14.0	0.0	
Channel									
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3494.5	3499.98	3504.48	(dBm)	(dB)	
80	QPSK	1	1	12.69	12.63	12.68	14.0	0.0	
Channel									
Frequency (MHz)				63485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	12.72	12.67	12.72	14.0	0.0	
Channel									
Frequency (MHz)				632000	633332	634668	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	12.62	12.73	12.65	14.0	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	12.61	12.69	12.66	14.0	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	12.65	12.71	12.72	14.0	0.0	
Channel									
Frequency (MHz)				631000	633332	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3499.98	3534.98	(dBm)	(dB)	
30	QPSK	1	1	12.71	12.68	12.74	14.0	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	12.70	12.63	12.63	14.0	0.0	
Channel									
Frequency (MHz)				630300	633332	636166	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	12.60	12.72	12.68	14.0	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	12.62	12.67	12.72	14.0	0.0	

Par27Q n77_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR	
100	Pl2 BPSK	1	1	12.72					
100	Pl2 BPSK	1	137	12.62			14.0	0.0	
100	Pl2 BPSK	1	271	12.67					
100	Pl2 BPSK	135	0	12.73			14.0	0.0	
100	Pl2 BPSK	135	66	12.61			14.0	0.0	
100	Pl2 BPSK	135	138	12.71			14.0	0.0	
100	Pl2 BPSK	270	0	12.65					
100	QPSK	1	1	12.75					
100	QPSK	1	137	12.66			14.0	0.0	
100	QPSK	1	271	12.72					
100	QPSK	135	0	12.63					
100	QPSK	135	66	12.72			14.0	0.0	
100	QPSK	135	138	12.68					
100	QPSK	270	0	12.69			14.0	0.0	
100	16QAM	1	1	12.68			14.0	0.0	
100	64QAM	1	1	12.63			14.0	0.0	
100	256QAM	1	1	12.65			14.0	0.0	
Channel									
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR	
90	QPSK	1	1	12.63	12.65	12.60	14.0	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	3490.02	3499.98	3510	(dBm)	(dB)	
Frequency (MHz)				12.69	12.63	12.68	14.0	0.0	
Channel									
Frequency (MHz)				63485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	12.72	12.67	12.72	14.0	0.0	
Channel									
Frequency (MHz)				632000	633332	634668	Tune-up limit (dBm)	MPR	
60	QPSK	1	1	12.62	12.73	12.65	14.0	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR	
50	QPSK	1	1	12.61	12.69	12.66	14.0	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	3470.01	3499.98	3529.98	(dBm)	(dB)	
40	QPSK	1	1	12.65	12.71	12.72	14.0	0.0	
Channel									
Frequency (MHz)				631000	633332	635668	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	3465	3499.98	3534.98	(dBm)	(dB)	
30	QPSK	1	1	12.71	12.68	12.74	14.0	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	12.70	12.63	12.63	14.0	0.0	
Channel									
Frequency (MHz)				630300	633332	636166	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	12.60	12.72	12.68	14.0	0.0	
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	12.62	12.67	12.72	14.0	0.0	

Par27O n77_Ant 8									
BW (MHz)	Modulation	RB 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			
Frequency (MHz)				3702	3840	3702			
100	Pl2 BPSK	1	1	14.88	14.89	14.82			
100	Pl2 BPSK	1	137	14.80	14.88	14.81	16.5	0.0	
100	Pl2 BPSK	1	271	14.80	14.91	14.88			
100	Pl2 BPSK	135	0	14.82	14.96	14.90	16.5	0.0	
100	Pl2 BPSK	135	66	14.91	14.88	14.91	16.5	0.0	
100	Pl2 BPSK	135	138	14.80	14.96	14.84	16.5	0.0	
100	Pl2 BPSK	270	0	14.78	14.98	14.90			
100	QPSK	1	1	14.92	15.00	14.96			
100	QPSK	1	137	14.82	14.85	14.83	16.5	0.0	
100	QPSK	1	271	14.78	14.99	14.81			
100	QPSK	135	0	14.80	14.92	14.85			
100	QPSK	135	66	14.88	14.93	14.86	16.5	0.0	
100	QPSK	135	138	14.85	14.90	14.79			
100	QPSK	270	0	14.82	14.90	14.85	16.5	0.0	
100	16QAM	1	1	14.91	14.88	14.85	16.5	0.0	
100	64QAM	1	1	14.90	14.92	14.92	16.5	0.0	
100	256QAM	1	1	14.84	14.96	14.99	16.5	0.0	
Channel									
Frequency (MHz)				649668	656000	662332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3749.02	3840	3934.98	(dBm)	(dB)	
80	QPSK	1	1	14.89	14.89	14.94	14.5	0.0	
Channel									
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	14.90	14.95	14.90	16.5	0.0	
Channel									
Frequency (MHz)				649668	656000	662332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	14.79	14.89	14.87	16.5	0.0	
Channel									
Frequency (MHz)				649668	656000	662332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)	
60	QPSK	1	1	14.80	14.89	14.83	16.5	0.0	
Channel									
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3729.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	14.79	14.87	14.85	16.5	0.0	
Channel									
Frequency (MHz)				649668	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.01	3840	3970.99	(dBm)	(dB)	
40	QPSK	1	1	14.81	14.88	14.94	16.5	0.0	
Channel									
Frequency (MHz)				647668	656000	664332	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3719.02	3840	3964.98	(dBm)	(dB)	
30	QPSK	1	1	14.83	14.89	14.92	16.5	0.0	
Channel									
Frequency (MHz)				647334	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	14.82	14.89	14.83	16.5	0.0	
Channel									
Frequency (MHz)				647000	656000	664832	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	14.80	14.96	14.83	16.5	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3705.01	3840	3975.99	(dBm)	(dB)	
10	QPSK	1	1	14.81	14.89	14.91	16.5	0.0	



Par270 n77_Ant 8_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3840	3930			
100	Pi2 BPSK	1	1	14.86	14.83	14.82			
100	Pi2 BPSK	1	137	14.80	14.88	14.81	16.5	0.0	
100	Pi2 BPSK	1	271	14.80	14.91	14.88			
100	Pi2 BPSK	135	0	14.82	14.96	14.90	16.5	0.0	
100	Pi2 BPSK	135	69	14.91	14.88	14.91	16.5	0.0	
100	Pi2 BPSK	135	138	14.80	14.98	14.84			
100	Pi2 BPSK	270	0	14.78	14.98	14.90	16.5	0.0	
100	QPSK	1	1	14.92	14.90	14.90			
100	QPSK	1	137	14.82	14.85	14.83	16.5	0.0	
100	QPSK	1	271	14.78	14.99	14.81			
100	QPSK	135	0	14.80	14.92	14.85			
100	QPSK	135	69	14.86	14.84	14.86	16.5	0.0	
100	QPSK	135	138	14.85	14.90	14.79			
100	QPSK	270	0	14.82	14.90	14.85	16.5	0.0	
100	16QAM	1	1	14.91	14.88	14.85	16.5	0.0	
100	64QAM	1	1	14.90	14.92	14.92	16.5	0.0	
100	256QAM	1	1	14.94	14.96	14.89	16.5	0.0	
Channel									
Frequency (MHz)				6496.66	656000	66234.2	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.88	14.96	14.94	16.5	0.0	
Channel									
Frequency (MHz)				6493.34	656000	66266.6	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.90	14.95	14.90	16.5	0.0	
Channel									
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.79	14.89	14.87	16.5	0.0	
Channel									
Frequency (MHz)				3730.02	3840	3940.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	14.80	14.89	14.83	16.5	0.0	
Channel									
Frequency (MHz)				3683.34	656000	656066	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	14.79	14.87	14.85	16.5	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	14.81	14.88	14.84	16.5	0.0	
Channel									
Frequency (MHz)				3675.03	656000	656032	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	14.85	14.98	14.92	16.5	0.0	
Channel									
Frequency (MHz)				3710.01	3840	3950.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.82	14.89	14.83	16.5	0.0	
Channel									
Frequency (MHz)				3647.68	656000	656032	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.80	14.96	14.83	16.5	0.0	
Channel									
Frequency (MHz)				3640.00	656000	656000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.81	14.89	14.91	16.5	0.0	

Par27Q n77_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
100	Pi2 BPSK	1	1		14.83				
100	Pi2 BPSK	1	137		14.80		16.5		0.0
100	Pi2 BPSK	1	271		14.91				
100	Pi2 BPSK	135	0		14.81		16.5		0.0
100	Pi2 BPSK	135	69		14.85		16.5		0.0
100	Pi2 BPSK	135	138		14.91		16.5		0.0
100	Pi2 BPSK	270	0		14.85				
100	QPSK	1	1		14.95				
100	QPSK	1	137		14.80		16.5		0.0
100	QPSK	1	271		14.87				
100	QPSK	135	0		14.82				
100	QPSK	135	69		14.86		16.5		0.0
100	QPSK	135	138		14.84				
100	QPSK	270	0		14.87		16.5		0.0
100	16QAM	1	1		14.92		16.5		0.0
100	64QAM	1	1		14.93		16.5		0.0
100	256QAM	1	1		14.93		16.5		0.0
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.80	14.80	14.79	16.5		
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.82	14.89	14.81	16.5		
Channel									
Frequency (MHz)				631668	633332	634666	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.83	14.87	14.83	16.5		
Channel									
Frequency (MHz)				631000	633332	635000	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	14.82	14.81	14.81	16.5		
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	14.76	14.88	14.79	16.5		
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	14.80	14.94	14.91	16.5		
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	14.87	14.81	14.90	16.5		
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.82	14.83	14.79	16.5		
Channel									
Frequency (MHz)				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.83	14.92	14.89	16.5		
Channel									
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.82	14.90	14.88	16.5		

Par27Q n77_Ant 8_HPUE									
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)					633332				
100	Pi2 BPSK	1	1		14.83				
100	Pi2 BPSK	1	137		14.83		16.5	0.0	
100	Pi2 BPSK	1	271		14.91				
100	Pi2 BPSK	135	0		14.81		16.5	0.0	
100	Pi2 BPSK	135	69		14.85		16.5	0.0	
100	Pi2 BPSK	135	138		14.91		16.5	0.0	
100	Pi2 BPSK	270	0		14.85				
100	QPSK	1	1		14.95				
100	QPSK	1	137		14.80		16.5	0.0	
100	QPSK	1	271		14.87				
100	QPSK	135	0		14.82				
100	QPSK	135	69		14.86		16.5	0.0	
100	QPSK	135	138		14.84				
100	QPSK	270	0		14.87		16.5	0.0	
100	16QAM	1	1		14.92		16.5	0.0	
100	64QAM	1	1		14.93		16.5	0.0	
100	256QAM	1	1		14.93		16.5	0.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.80	14.80	14.79	16.5	0.0	
Channel									
Frequency (MHz)				3446.02	3449.98	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	14.82	14.89	14.81	16.5	0.0	
Channel									
Frequency (MHz)				3446.14	3451.32	3451.32	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0	
Channel									
Frequency (MHz)				3449.14	3449.14	3514.08	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0	
Channel									
Frequency (MHz)				3480	3480	3519.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	14.82	14.81	14.81	16.5	0.0	
Channel									
Frequency (MHz)				631988	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	14.80	14.80	14.80	16.5	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	14.81	14.86	14.86	16.5	0.0	
Channel									
Frequency (MHz)				14.86	14.94	14.91	16.5	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	14.87	14.81	14.90	16.5	0.0	
Channel									
Frequency (MHz)				3449.02	3449.98	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	14.82	14.83	14.79	16.5	0.0	
Channel									
Frequency (MHz)				3449.5	3449.5	3542.49	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	14.83	14.92	14.89	16.5	0.0	
Channel									
Frequency (MHz)				3450.0	3453.32	3453.32	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	14.82	14.90	14.88	16.5	0.0	



Par270 n77_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				7.60	7.68	7.61			
100	PI2 BPSK	1	1	7.65	7.58	7.52	9.0	0.0	
100	PI2 BPSK	1	137	7.65	7.58	7.52			
100	PI2 BPSK	1	271	7.65	7.66	7.58			
100	PI2 BPSK	135	0	7.55	7.66	7.63	9.0	0.0	
100	PI2 BPSK	135	66	7.64	7.56	7.62	9.0	0.0	
100	PI2 BPSK	135	138	7.57	7.66	7.64	9.0	0.0	
100	PI2 BPSK	270	0	7.65	7.68	7.64			
100	QPSK	1	1	7.56	7.70	7.60			
100	QPSK	1	137	7.66	7.67	7.52	9.0	0.0	
100	QPSK	1	271	7.66	7.64	7.60			
100	QPSK	135	0	7.57	7.60	7.62			
100	QPSK	135	66	7.56	7.66	7.64	9.0	0.0	
100	QPSK	135	138	7.55	7.64	7.63			
100	QPSK	270	0	7.61	7.62	7.58	9.0	0.0	
100	16QAM	1	1	7.64	7.58	7.55	9.0	0.0	
100	64QAM	1	1	7.56	7.61	7.56	9.0	0.0	
100	256QAM	1	1	7.61	7.66	7.56	9.0	0.0	
Channel				646968	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	7.54	7.58	7.56	9.0	0.0	
Channel				646334	656000	662666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	7.62	7.55	7.62	9.0	0.0	
Channel				646968	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	7.59	7.64	7.58	9.0	0.0	
Channel				646968	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
60	QPSK	1	1	7.63	7.58	7.59	9.0	0.0	
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	7.59	7.56	7.56	9.0	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	7.64	7.59	7.59	9.0	0.0	
Channel				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3716.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	7.62	7.55	7.52	9.0	0.0	
Channel				647234	656000	664066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	7.64	7.69	7.58	9.0	0.0	
Channel				647168	656000	664832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	7.57	7.63	7.59	9.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	7.66	7.68	7.60	9.0	0.0	

Par270 n77_Ant 10_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)				7.60	7.68	7.61			
100	PI2 BPSK	1	1	7.65	7.58	7.52	9.0	0.0	
100	PI2 BPSK	1	137	7.65	7.58	7.52			
100	PI2 BPSK	1	271	7.65	7.66	7.58			
100	PI2 BPSK	135	0	7.55	7.66	7.63	9.0	0.0	
100	PI2 BPSK	135	66	7.64	7.56	7.62	9.0	0.0	
100	PI2 BPSK	135	138	7.57	7.66	7.64	9.0	0.0	
100	PI2 BPSK	270	0	7.65	7.68	7.64			
100	QPSK	1	1	7.66	7.70	7.60			
100	QPSK	1	137	7.66	7.67	7.52	9.0	0.0	
100	QPSK	1	271	7.66	7.64	7.60			
100	QPSK	135	0	7.57	7.60	7.62			
100	QPSK	135	66	7.56	7.66	7.64	9.0	0.0	
100	QPSK	135	138	7.55	7.64	7.63			
100	QPSK	270	0	7.61	7.62	7.58	9.0	0.0	
100	16QAM	1	1	7.64	7.58	7.55	9.0	0.0	
100	64QAM	1	1	7.56	7.61	7.56	9.0	0.0	
100	256QAM	1	1	7.61	7.66	7.56	9.0	0.0	
Channel				646968	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3840	3934.98	(dBm)	(dB)	
90	QPSK	1	1	7.54	7.58	7.56	9.0	0.0	
Channel				646334	656000	662666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)	
80	QPSK	1	1	7.62	7.55	7.62	9.0	0.0	
Channel				646968	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	7.59	7.64	7.58	9.0	0.0	
Channel				646968	656000	662332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
60	QPSK	1	1	7.63	7.58	7.59	9.0	0.0	
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)	
50	QPSK	1	1	7.59	7.56	7.56	9.0	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	7.64	7.59	7.59	9.0	0.0	
Channel				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3716.02	3840.00	3964.98	(dBm)	(dB)	
30	QPSK	1	1	7.62	7.55	7.52	9.0	0.0	
Channel				647234	656000	664066	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)	
20	QPSK	1	1	7.64	7.69	7.58	9.0	0.0	
Channel				647168	656000	664832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3840	3972.48	(dBm)	(dB)	
15	QPSK	1	1	7.57	7.63	7.59	9.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	7.66	7.68	7.60	9.0	0.0	

Par27Q n77_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633332	633666	Tune-up limit	MPR	
Frequency (MHz)				7.60	7.68	7.61			
100	PI2 BPSK	1	1	7.65	7.58	7.52	9.0	0.0	
100	PI2 BPSK	1	137	7.65	7.67	7.61			
100	PI2 BPSK	1	271	7.65	7.66	7.60			
100	PI2 BPSK	135	0	7.55	7.60	7.63	9.0	0.0	
100	PI2 BPSK	135	66	7.64	7.56	7.62	9.0	0.0	
100	PI2 BPSK	135	138	7.57	7.66	7.64	9.0	0.0	
100	PI2 BPSK	270	0	7.65	7.68	7.64			
100	QPSK	1	1	7.66	7.70	7.60			
100	QPSK	1	137	7.66	7.67	7.52	9.0	0.0	
100	QPSK	1	271	7.66	7.64	7.60			
100	QPSK	135	0	7.57	7.60	7.62			
100	QPSK	135	66	7.56	7.66	7.64	9.0	0.0	
100	QPSK	135	138	7.55	7.64	7.63			
100	QPSK	270	0	7.61	7.62	7.58	9.0	0.0	
100	16QAM	1	1	7.59	7.59	7.59	9.0	0.0	
100	64QAM	1	1	7.67	7.67	7.67	9.0	0.0	
100	256QAM	1	1	7.65	7.65	7.65	9.0	0.0	
Channel				633000	633332	633666	Tune-up limit	MPR	
50	QPSK	1	1	7.53	7.65	7.66	9.0	0.0	
Channel				630668	633332	635000	Tune-up limit	MPR	
Frequency (MHz)				7.49	7.68	7.81			
80	QPSK	1	1	7.49	7.68	7.81	9.0	0.0	
Channel				634602	634998	635400	Tune-up limit	MPR	
Frequency (MHz)				7.62	7.75	7.73			
70	QPSK	1	1	7.62	7.75	7.73	9.0	0.0	
Channel				634601	634998	635400	Tune-up limit	MPR	
Frequency (MHz)				7.59	7.63	7.62			
60	QPSK	1	1	7.59	7.63	7.62	9.0	0.0	
Channel				631998	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				7.61	7.68	7.64			
50	QPSK	1	1	7.61	7.68	7.64	9.0	0.0	
Channel				631999	633332	634666	Tune-up limit	MPR	
Frequency (MHz)				7.62	7.73	7.64			
40	QPSK	1	1	7.62	7.73	7.64	9.0	0.0	
Channel				631334	633332	635332	Tune-up limit	MPR	
Frequency (MHz)				7.58	7.68	7.68			
30	QPSK	1	1	7.58	7.68	7.68	9.0	0.0	
Channel				631000	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				7.60	7.63	7.66			
20	QPSK	1	1	7.60	7.63	7.66	9.0	0.0	
Channel				634602	634998	635400	Tune-up limit	MPR	
Frequency (MHz)				7.59	7.63	7.62			
15	QPSK	1	1	7.59	7.63	7.62	9.0	0.0	
Channel				634599	633332	635666	Tune-up limit	MPR	
Frequency (MHz)				7.61	7.68	7.64			
10	QPSK	1	1	7.61	7.68	7.64	9.0	0.0	

Par27Q n77_Ant 10_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3489.98					
100	Pi2 BPSK	1	1	7.68					
100	Pi2 BPSK	1	137	7.67			9.0	0.0	
100	Pi2 BPSK	1	271	7.61					
100	Pi2 BPSK	136	0	7.60			9.0	0.0	
100	Pi2 BPSK	136	69	7.65			9.0	0.0	
100	Pi2 BPSK	136	138	7.57			9.0	0.0	
100	Pi2 BPSK	270	0	7.65					
100	QPSK	1	1	7.68					
100	QPSK	1	137	7.58			9.0	0.0	
100	QPSK	1	271	7.61					
100	QPSK	136	0	7.57					
100	QPSK	136	69	7.65			9.0	0.0	
100	QPSK	136	138	7.57					
100	QPSK	270	0	7.60			9.0	0.0	
100	16QAM	1	1	7.59			9.0	0.0	
100	64QAM	1	1	7.67			9.0	0.0	
100	256QAM	1	1	7.65			9.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489.98	3489.98	3489.98	9.0	0.0	
90	QPSK	1	1	7.53	7.65	7.68	9.0	0.0	
Channel				633666	633332	633000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489.02	3489.98	3510	9.0	0.0	
80	QPSK	1	1	7.62	7.55	7.53	9.0	0.0	
Channel				634511	633332	634122	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3488.01	3489.98	3514.98	9.0	0.0	
70	QPSK	1	1	7.59	7.63	7.62	9.0	0.0	
Channel				634000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3489.98	3519.99	9.0	0.0	
60	QPSK	1	1	7.61	7.66	7.64	9.0	0.0	
Channel				633988	633332	633600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3478.02	3489.98	3505	9.0	0.0	
50	QPSK	1	1	7.62	7.57	7.64	9.0	0.0	
Channel				634134	633332	633633	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3477.01	3489.98	3509.99	9.0	0.0	
40	QPSK	1	1	7.68	7.53	7.53	9.0	0.0	
Channel				631000	633332	636866	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3489.98	3524.99	9.0	0.0	
30	QPSK	1	1	7.68	7.63	7.56	9.0	0.0	
Channel				630666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3489.98	3540	9.0	0.0	
20	QPSK	1	1	7.57	7.53	7.62	9.0	0.0	
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3489.98	3542.49	9.0	0.0	
15	QPSK	1	1	7.54	7.53	7.56	9.0	0.0	
Channel				630300	633332	636300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.01	3489.98	3544.98	9.0	0.0	
10	QPSK	1	1	7.55	7.64	7.61	9.0	0.0	

Par27Q n78_Ant 4									
BW (MHz)	Modulation	RB 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	12.37				
100	Pi2 BPSK	1	137	12.48			13.5	0.0	
100	Pi2 BPSK	1	271	12.43					
100	Pi2 BPSK	136	0	12.39			13.5	0.0	
100	Pi2 BPSK	136	69	12.41			13.5	0.0	
100	Pi2 BPSK	136	138	12.45			13.5	0.0	
100	Pi2 BPSK	270	0	12.48					
100	QPSK	1	1	12.49					
100	QPSK	1	137	12.38			13.5	0.0	
100	QPSK	1	271	12.38					
100	QPSK	136	0	12.45					
100	QPSK	136	69	12.48			13.5	0.0	
100	QPSK	136	138	12.38					
100	QPSK	270	0	12.45			13.5	0.0	
100	16QAM	1	1	12.35			13.5	0.0	
100	64QAM	1	1	12.46			13.5	0.0	
100	256QAM	1	1	12.35			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730	3750	3760	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3725	3750	3775	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3750	3780	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3715.02	3750.00	3784.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3789.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3707.50	3750	3792.48	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	

Par27Q n78_Ant 4_HPUE									
BW (MHz)	Modulation	RB 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	12.37				
100	Pi2 BPSK	1	137	12.48			13.5	0.0	
100	Pi2 BPSK	1	271	12.43					
100	Pi2 BPSK	136	0	12.39			13.5	0.0	
100	Pi2 BPSK	136	69	12.41			13.5	0.0	
100	Pi2 BPSK	136	138	12.45			13.5	0.0	
100	Pi2 BPSK	270	0	12.48					
100	QPSK	1	1	12.49					
100	QPSK	1	137	12.38			13.5	0.0	
100	QPSK	1	271	12.38					
100	QPSK	136	0	12.45					
100	QPSK	136	69	12.48			13.5	0.0	
100	QPSK	136	138	12.38					
100	QPSK	270	0	12.45			13.5	0.0	
100	16QAM	1	1	12.35			13.5	0.0	
100	64QAM	1	1	12.46			13.5	0.0	
100	256QAM	1	1	12.35			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3754.98	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
70	QPSK	1	1	3735	3750	3765	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
60	QPSK	1	1	3730	3750	3760	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
50	QPSK	1	1	3725	3750	3775	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3750	3780	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
30	QPSK	1	1	3715.02	3750.00	3784.98	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3789.99	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	1	3707.52	3750	3792.48	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705.00	3750	3795.00	Tune-up limit (dBm)		MPR (dB)
Channel									
Frequency (MHz)									
5	QPSK	1	1	3702.50	3750	3797.50	Tune-up limit (dBm)		MPR (dB)

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633532	633532			
Frequency (MHz)				3459.98				
100	PQ2 BPSK	1	1	12.53				
100	PQ2 BPSK	1	137	12.48			13.5	0.0
100	PQ2 BPSK	1	271	12.48				
100	PQ2 BPSK	135	0	12.41			13.5	0.0
100	PQ2 BPSK	135	66	12.54			13.5	0.0
100	PQ2 BPSK	135	136	12.42			13.5	0.0
100	PQ2 BPSK	270	0	12.41				
100	QPSK	1	1	12.55				
100	QPSK	1	137	12.45			13.5	0.0
100	QPSK	1	271	12.42				
100	QPSK	135	0	12.44				
100	QPSK	135	66	12.52			13.5	0.0
100	QPSK	135	136	12.51				
100	QPSK	270	0	12.43			13.5	0.0
100	16QAM	1	1	12.46			13.5	0.0
100	16QAM	1	1	12.44			13.5	0.0
100	256QAM	1	1	12.52			13.5	0.0
Channel				633500	633532	633666	Tune-up limit	MPR
Frequency (MHz)				3455	3459.98	3504.98	(dBm)	(dB)
80	QPSK	1	1	12.45	12.50	12.44	13.5	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3466.98	3510	(dBm)	(dB)
80	QPSK	1	1	12.43	12.51	12.45	13.5	0.0
Channel				633531	633532	633533	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	12.41	12.54	12.46	13.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480	3496.98	3516.98	(dBm)	(dB)
60	QPSK	1	1	12.47	12.47	12.47	13.5	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	12.50	12.46	12.50	13.5	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3496.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	12.42	12.41	12.45	13.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3465	3496.98	3516.98	(dBm)	(dB)
30	QPSK	1	1	12.47	12.47	12.49	13.5	0.0
Channel				630668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3520	(dBm)	(dB)
20	QPSK	1	1	12.45	12.50	12.42	13.5	0.0
Channel				630500	633332	636166	Tune-up limit	MPR
Frequency (MHz)				3463.5	3496.98	3524.98	(dBm)	(dB)
15	QPSK	1	1	12.48	12.48	12.42	13.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3524.98	(dBm)	(dB)
10	QPSK	1	1	12.53	12.47	12.45	13.5	0.0

Part27Q n78_Ant 4_HPUE

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633532	633532			
Frequency (MHz)				3459.98				
100	PQ2 BPSK	1	1	12.53				
100	PQ2 BPSK	1	137	12.48			13.5	0.0
100	PQ2 BPSK	1	271	12.48				
100	PQ2 BPSK	135	0	12.41			13.5	0.0
100	PQ2 BPSK	135	66	12.54			13.5	0.0
100	PQ2 BPSK	135	136	12.42			13.5	0.0
100	PQ2 BPSK	270	0	12.41				
100	QPSK	1	1	12.55				
100	QPSK	1	137	12.45			13.5	0.0
100	QPSK	1	271	12.42				
100	QPSK	135	0	12.44				
100	QPSK	135	66	12.52			13.5	0.0
100	QPSK	135	136	12.51				
100	QPSK	270	0	12.43			13.5	0.0
100	16QAM	1	1	12.46			13.5	0.0
100	16QAM	1	1	12.44			13.5	0.0
100	256QAM	1	1	12.52			13.5	0.0
Channel				633500	633532	633666	Tune-up limit	MPR
Frequency (MHz)				3455	3459.98	3504.98	(dBm)	(dB)
90	QPSK	1	1	12.45	12.50	12.44	13.5	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3466.98	3510	(dBm)	(dB)
80	QPSK	1	1	12.43	12.51	12.45	13.5	0.0
Channel				633531	633532	633533	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	12.41	12.54	12.46	13.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3460	3496.98	3516.98	(dBm)	(dB)
60	QPSK	1	1	12.47	12.47	12.47	13.5	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	12.50	12.46	12.50	13.5	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3496.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	12.42	12.41	12.45	13.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3465	3496.98	3516.98	(dBm)	(dB)
30	QPSK	1	1	12.47	12.47	12.49	13.5	0.0
Channel				630668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3520	(dBm)	(dB)
20	QPSK	1	1	12.45	12.50	12.42	13.5	0.0
Channel				630500	633332	636166	Tune-up limit	MPR
Frequency (MHz)				3463.5	3496.98	3524.98	(dBm)	(dB)
15	QPSK	1	1	12.48	12.48	12.42	13.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3524.98	(dBm)	(dB)
10	QPSK	1	1	12.53	12.47	12.45	13.5	0.0



Par270 n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				649698		650000	650332	Tune-up limit	
Frequency (MHz)				3745.02		3750	3754.98	(dB)	
100	PI2 BPSK	1	1	12.85	12.85	12.92	14.0	0.0	
100	PI2 BPSK	1	137	12.96	12.96	12.96	14.0	0.0	
100	PI2 BPSK	1	271	12.93	12.93	12.93	14.0	0.0	
100	PI2 BPSK	135	0	12.84	12.84	12.84	14.0	0.0	
100	PI2 BPSK	135	69	12.84	12.84	12.84	14.0	0.0	
100	PI2 BPSK	135	138	12.96	12.96	12.96	14.0	0.0	
100	PI2 BPSK	270	0	12.87	12.87	12.87	14.0	0.0	
100	QPSK	1	1	12.98	12.98	12.98	14.0	0.0	
100	QPSK	1	137	12.95	12.95	12.95	14.0	0.0	
100	QPSK	1	271	12.94	12.94	12.94	14.0	0.0	
100	QPSK	135	0	12.89	12.89	12.89	14.0	0.0	
100	QPSK	135	69	12.89	12.89	12.89	14.0	0.0	
100	QPSK	135	138	12.90	12.90	12.90	14.0	0.0	
100	QPSK	270	0	12.88	12.88	12.88	14.0	0.0	
100	16QAM	1	1	12.96	12.96	12.96	14.0	0.0	
100	16QAM	1	1	12.89	12.89	12.89	14.0	0.0	
100	256QAM	1	1	12.93	12.93	12.93	14.0	0.0	
Channel				649698		650000	650332	Tune-up limit	
Frequency (MHz)				3745.02		3750	3754.98	(dB)	
80	QPSK	1	1	12.86	12.86	12.92	14.0	0.0	
Channel				649334		650000	650666	Tune-up limit	
Frequency (MHz)				3740.01		3750	3759.99	(dB)	
80	QPSK	1	1	12.86	12.97	12.83	14.0	0.0	
Channel				649334		650000	650332	Tune-up limit	
Frequency (MHz)				3735		3750	3765	(dB)	
70	QPSK	1	1	12.97	12.87	12.84	14.0	0.0	
Channel				649698		650000	651332	Tune-up limit	
Frequency (MHz)				3740.01		3750	3764.99	(dB)	
60	QPSK	1	1	12.91	12.91	12.89	14.0	0.0	
Channel				649334		650000	651666	Tune-up limit	
Frequency (MHz)				3725.01		3750	3774.99	(dB)	
50	QPSK	1	1	12.84	12.92	12.84	14.0	0.0	
Channel				648000		650000	652000	Tune-up limit	
Frequency (MHz)				3720		3750	3780	(dB)	
40	QPSK	1	1	12.89	12.97	12.96	14.0	0.0	
Channel				647666		650000	652332	Tune-up limit	
Frequency (MHz)				3715.02		3750.00	3784.98	(dB)	
30	QPSK	1	1	12.84	12.85	12.84	14.0	0.0	
Channel				647334		650000	652666	Tune-up limit	
Frequency (MHz)				3710.01		3750	3789.99	(dB)	
20	QPSK	1	1	12.83	12.92	12.87	14.0	0.0	
Channel				647168		650000	652832	Tune-up limit	
Frequency (MHz)				3707.55		3750	3792.48	(dB)	
15	QPSK	1	1	12.94	12.93	12.96	14.0	0.0	
Channel				647000		650000	653000	Tune-up limit	
Frequency (MHz)				3705		3750	3795	(dB)	
10	QPSK	1	1	12.85	12.95	12.86	14.0	0.0	

Par270 n78_Ant 7_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				649698		650000	650332	Tune-up limit	
Frequency (MHz)				3745.02		3750	3754.98	(dB)	
100	PI2 BPSK	1	1	12.85	12.85	12.92	14.0	0.0	
100	PI2 BPSK	1	137	12.96	12.96	12.96	14.0	0.0	
100	PI2 BPSK	1	271	12.93	12.93	12.93	14.0	0.0	
100	PI2 BPSK	135	0	12.84	12.84	12.84	14.0	0.0	
100	PI2 BPSK	135	69	12.84	12.84	12.84	14.0	0.0	
100	PI2 BPSK	135	138	12.96	12.96	12.96	14.0	0.0	
100	PI2 BPSK	270	0	12.87	12.87	12.87	14.0	0.0	
100	QPSK	1	1	12.98	12.98	12.98	14.0	0.0	
100	QPSK	1	137	12.95	12.95	12.95	14.0	0.0	
100	QPSK	1	271	12.94	12.94	12.94	14.0	0.0	
100	QPSK	135	0	12.89	12.89	12.89	14.0	0.0	
100	QPSK	135	69	12.89	12.89	12.89	14.0	0.0	
100	QPSK	135	138	12.90	12.90	12.90	14.0	0.0	
100	QPSK	270	0	12.88	12.88	12.88	14.0	0.0	
100	16QAM	1	1	12.96	12.96	12.96	14.0	0.0	
100	16QAM	1	1	12.89	12.89	12.89	14.0	0.0	
100	256QAM	1	1	12.93	12.93	12.93	14.0	0.0	
Channel				649698		650000	650332	Tune-up limit	
Frequency (MHz)				3745.02		3750	3754.98	(dB)	
80	QPSK	1	1	12.85	12.86	12.92	14.0	0.0	
Channel				649334		650000	650666	Tune-up limit	
Frequency (MHz)				3740.01		3750	3759.99	(dB)	
80	QPSK	1	1	12.86	12.97	12.83	14.0	0.0	
Channel				649334		650000	651332	Tune-up limit	
Frequency (MHz)				3735		3750	3765	(dB)	
70	QPSK	1	1	12.97	12.87	12.84	14.0	0.0	
Channel				649698		650000	651666	Tune-up limit	
Frequency (MHz)				3725.01		3750	3774.99	(dB)	
60	QPSK	1	1	12.91	12.91	12.89	14.0	0.0	
Channel				649334		650000	651999	Tune-up limit	
Frequency (MHz)				3720.01		3750	3779.99	(dB)	
50	QPSK	1	1	12.84	12.92	12.84	14.0	0.0	
Channel				648000		650000	652000	Tune-up limit	
Frequency (MHz)				3720		3750	3780	(dB)	
40	QPSK	1	1	12.89	12.97	12.96	14.0	0.0	
Channel				647666		650000	652332	Tune-up limit	
Frequency (MHz)				3715.02		3750.00	3784.98	(dB)	
30	QPSK	1	1	12.84	12.85	12.84	14.0	0.0	
Channel				647334		650000	652666	Tune-up limit	
Frequency (MHz)				3710.01		3750	3789.99	(dB)	
20	QPSK	1	1	12.83	12.92	12.87	14.0	0.0	
Channel				647168		650000	652832	Tune-up limit	
Frequency (MHz)				3707.55		3750	3792.48	(dB)	
15	QPSK	1	1	12.94	12.93	12.96	14.0	0.0	
Channel				647000		650000	653000	Tune-up limit	
Frequency (MHz)				3705		3750	3795	(dB)	
10	QPSK	1	1	12.85	12.95	12.86	14.0	0.0	



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633332			
Frequency (MHz)				3493.98			
100	PQ2 BPSK	1	1	12.66			
100	PQ2 BPSK	1	137	12.66		14.0	0.0
100	PQ2 BPSK	1	271	12.60			
100	PQ2 BPSK	135	0	12.57		14.0	0.0
100	PQ2 BPSK	135	69	12.68		14.0	0.0
100	PQ2 BPSK	135	138	12.62			
100	PQ2 BPSK	270	0	12.70		14.0	0.0
100	QPSK	1	1	12.72			
100	QPSK	1	137	12.65		14.0	0.0
100	QPSK	1	271	12.61			
100	QPSK	135	0	12.65			
100	QPSK	135	69	12.66		14.0	0.0
100	QPSK	135	138	12.62			
100	QPSK	270	0	12.60		14.0	0.0
100	16QAM	1	1	12.62		14.0	0.0
100	64QAM	1	1	12.66		14.0	0.0
100	256QAM	1	1	12.60		14.0	0.0
Channel				633000	633332	633666	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dB)
90	QPSK	1	1	12.62	12.57	12.64	14.0 0.0
Channel				632668	633332	634000	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dB)
80	QPSK	1	1	12.64	12.57	12.69	14.0 0.0
Channel				632334	633332	634332	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dB)
70	QPSK	1	1	12.69	12.62	12.68	14.0 0.0
Channel				632000	633332	634666	MPR
Frequency (MHz)				3480	3499.98	3518.99	(dB)
60	QPSK	1	1	12.66	12.57	12.66	14.0 0.0
Channel				631668	633332	635000	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dB)
50	QPSK	1	1	12.71	12.63	12.67	14.0 0.0
Channel				631334	633332	635332	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dB)
40	QPSK	1	1	12.66	12.62	12.67	14.0 0.0
Channel				631000	633332	635666	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dB)
30	QPSK	1	1	12.66	12.57	12.62	14.0 0.0
Channel				630668	633332	636000	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dB)
20	QPSK	1	1	12.71	12.63	12.57	14.0 0.0
Channel				630300	633332	636366	MPR
Frequency (MHz)				3457.5	3499.98	3542.49	(dB)
15	QPSK	1	1	12.58	12.70	12.62	14.0 0.0
Channel				630334	633332	636332	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dB)
10	QPSK	1	1	12.66	12.62	12.61	14.0 0.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-H Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				633332			
Frequency (MHz)				3493.98			
100	PQ2 BPSK	1	1	12.66			
100	PQ2 BPSK	1	137	12.66		14.0	0.0
100	PQ2 BPSK	1	271	12.60			
100	PQ2 BPSK	135	0	12.57		14.0	0.0
100	PQ2 BPSK	135	69	12.68		14.0	0.0
100	PQ2 BPSK	135	138	12.62			
100	PQ2 BPSK	270	0	12.70		14.0	0.0
100	QPSK	1	1	12.72			
100	QPSK	1	137	12.65		14.0	0.0
100	QPSK	1	271	12.61			
100	QPSK	135	0	12.65			
100	QPSK	135	69	12.66		14.0	0.0
100	QPSK	135	138	12.62			
100	QPSK	270	0	12.60		14.0	0.0
100	16QAM	1	1	12.62		14.0	0.0
100	64QAM	1	1	12.66		14.0	0.0
100	256QAM	1	1	12.60		14.0	0.0
Channel				633000	633332	633666	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dB)
90	QPSK	1	1	12.62	12.57	12.68	14.0 0.0
Channel				632668	633332	634000	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dB)
80	QPSK	1	1	12.64	12.57	12.69	14.0 0.0
Channel				632334	633332	634332	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dB)
70	QPSK	1	1	12.69	12.62	12.68	14.0 0.0
Channel				632000	633332	634666	MPR
Frequency (MHz)				3480	3499.98	3518.99	(dB)
60	QPSK	1	1	12.66	12.57	12.66	14.0 0.0
Channel				631668	633332	635000	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dB)
50	QPSK	1	1	12.71	12.63	12.67	14.0 0.0
Channel				631334	633332	635332	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dB)
40	QPSK	1	1	12.66	12.62	12.67	14.0 0.0
Channel				631000	633332	635666	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dB)
30	QPSK	1	1	12.66	12.57	12.62	14.0 0.0
Channel				630668	633332	636000	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dB)
20	QPSK	1	1	12.71	12.63	12.57	14.0 0.0
Channel				630300	633332	636366	MPR
Frequency (MHz)				3457.5	3499.98	3542.49	(dB)
15	QPSK	1	1	12.58	12.70	12.62	14.0 0.0
Channel				630334	633332	636332	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dB)
10	QPSK	1	1	12.66	12.62	12.61	14.0 0.0



Par270 n78_Ant 8									
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				3750					
100	PI2 BPSK	1	1	14.83					
100	PI2 BPSK	1	137	14.76			16.5	0.0	
100	PI2 BPSK	1	271	14.77					
100	PI2 BPSK	135	0	14.84			16.5	0.0	
100	PI2 BPSK	135	69	14.75			16.5	0.0	
100	PI2 BPSK	135	138	14.75			16.5	0.0	
100	PI2 BPSK	270	0	14.77					
100	QPSK	1	1	14.80			16.5	0.0	
100	QPSK	1	137	14.80					
100	QPSK	1	271	14.75					
100	QPSK	135	0	14.85			16.5	0.0	
100	QPSK	135	69	14.86					
100	QPSK	135	138	14.83					
100	QPSK	270	0	14.87			16.5	0.0	
100	16QAM	1	1	14.89			16.5	0.0	
100	64QAM	1	1	14.77			16.5	0.0	
100	256QAM	1	1	14.84			16.5	0.0	
Channel				649698	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3754.68	(dBm)	(dB)	
90	QPSK	1	1	14.75	14.76	14.76	16.5	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	14.76	14.83	14.75	16.5	0.0	
Channel				649550	650000	650500	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	14.80	14.88	14.83	16.5	0.0	
Channel				649698	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3754.68	(dBm)	(dB)	
60	QPSK	1	1	14.77	14.80	14.76	16.5	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	14.82	14.85	14.80	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	14.87	14.84	14.79	16.5	0.0	
Channel				647698	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	14.84	14.84	14.89	16.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	14.86	14.83	14.75	16.5	0.0	
Channel				647198	650000	652932	Tune-up limit	MPR	
Frequency (MHz)				3707.85	3750	3792.14	(dBm)	(dB)	
15	QPSK	1	1	14.89	14.78	14.76	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	14.88	14.84	14.86	16.5	0.0	

Par270 n78_Ant 8_HPUE									
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				3750					
100	PI2 BPSK	1	1	14.83					
100	PI2 BPSK	1	137	14.76			16.5	0.0	
100	PI2 BPSK	1	271	14.77					
100	PI2 BPSK	135	0	14.84			16.5	0.0	
100	PI2 BPSK	135	69	14.75			16.5	0.0	
100	PI2 BPSK	135	138	14.75			16.5	0.0	
100	PI2 BPSK	270	0	14.77					
100	QPSK	1	1	14.80			16.5	0.0	
100	QPSK	1	137	14.80					
100	QPSK	1	271	14.75					
100	QPSK	135	0	14.85			16.5	0.0	
100	QPSK	135	69	14.86					
100	QPSK	135	138	14.83					
100	QPSK	270	0	14.87			16.5	0.0	
100	16QAM	1	1	14.89			16.5	0.0	
100	64QAM	1	1	14.77			16.5	0.0	
100	256QAM	1	1	14.84			16.5	0.0	
Channel				649698	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3754.68	(dBm)	(dB)	
90	QPSK	1	1	14.75	14.76	14.76	16.5	0.0	
Channel				649334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	QPSK	1	1	14.76	14.83	14.75	16.5	0.0	
Channel				649550	650000	650500	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1	14.80	14.88	14.83	16.5	0.0	
Channel				649698	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3750	3754.68	(dBm)	(dB)	
60	QPSK	1	1	14.77	14.80	14.76	16.5	0.0	
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	QPSK	1	1	14.82	14.85	14.80	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	14.87	14.84	14.79	16.5	0.0	
Channel				647698	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	QPSK	1	1	14.84	14.84	14.89	16.5	0.0	
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	QPSK	1	1	14.86	14.83	14.75	16.5	0.0	
Channel				647198	650000	652932	Tune-up limit	MPR	
Frequency (MHz)				3707.85	3750	3792.14	(dBm)	(dB)	
15	QPSK	1	1	14.89	14.78	14.76	16.5	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1	14.88	14.84	14.86	16.5	0.0	



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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				633332		3493.98		
Frequency (MHz)				15.48				
100	PI2 BPSK	1	1	15.48				
100	PI2 BPSK	1	137	15.42			16.5	0.0
100	PI2 BPSK	1	271	15.52				
100	PI2 BPSK	135	0	15.53			16.5	0.0
100	PI2 BPSK	135	69	15.48			16.5	0.0
100	PI2 BPSK	135	138	15.53			16.5	0.0
100	PI2 BPSK	270	0	15.52				
100	QPSK	1	1	15.56				
100	QPSK	1	137	15.52			16.5	0.0
100	QPSK	1	271	15.43				
100	QPSK	135	0	15.45				
100	QPSK	135	69	15.52			16.5	0.0
100	QPSK	135	138	15.42				
100	QPSK	270	0	15.49			16.5	0.0
100	16QAM	1	1	15.45			16.5	0.0
100	16QAM	1	1	15.55			16.5	0.0
100	256QAM	1	1	15.45			16.5	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	15.51	15.52	15.48	16.5	0.0
Channel				632666	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	15.42	15.55	15.47	16.5	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	15.44	15.47	15.51	16.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	15.52	15.55	15.52	16.5	0.0
Channel				631666	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	15.45	15.47	15.44	16.5	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	15.42	15.43	15.42	16.5	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	15.51	15.39	15.52	16.5	0.0
Channel				630666	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	15.53	15.43	15.50	16.5	0.0
Channel				630300	633332	636366	Tune-up limit	MPR
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)
15	QPSK	1	1	15.49	15.44	15.54	16.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)
10	QPSK	1	1	15.42	15.42	15.41	16.5	0.0

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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				633332		3493.98		
Frequency (MHz)				15.48				
100	PI2 BPSK	1	1	15.48				
100	PI2 BPSK	1	137	15.42			16.5	0.0
100	PI2 BPSK	1	271	15.52				
100	PI2 BPSK	135	0	15.53			16.5	0.0
100	PI2 BPSK	135	69	15.49			16.5	0.0
100	PI2 BPSK	135	138	15.53			16.5	0.0
100	PI2 BPSK	270	0	15.52				
100	QPSK	1	1	15.56				
100	QPSK	1	137	15.52			16.5	0.0
100	QPSK	1	271	15.43				
100	QPSK	135	0	15.45				
100	QPSK	135	69	15.52			16.5	0.0
100	QPSK	135	138	15.42				
100	QPSK	270	0	15.49			16.5	0.0
100	16QAM	1	1	15.45			16.5	0.0
100	16QAM	1	1	15.55			16.5	0.0
100	256QAM	1	1	15.45			16.5	0.0
Channel				633000	633332	633666	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	15.51	15.52	15.48	16.5	0.0
Channel				632666	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	15.42	15.55	15.47	16.5	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	15.44	15.47	15.51	16.5	0.0
Channel				632000	633332	634666	Tune-up limit	MPR
Frequency (MHz)				3480	3499.98	3519.99	(dBm)	(dB)
60	QPSK	1	1	15.52	15.55	15.52	16.5	0.0
Channel				631666	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	15.45	15.47	15.44	16.5	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	15.42	15.43	15.42	16.5	0.0
Channel				631000	633332	635666	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	15.51	15.39	15.52	16.5	0.0
Channel				630666	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
20	QPSK	1	1	15.53	15.43	15.50	16.5	0.0
Channel				630300	633332	636366	Tune-up limit	MPR
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)	(dB)
15	QPSK	1	1	15.49	15.44	15.54	16.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3453.01	3499.98	3544.98	(dBm)	(dB)
10	QPSK	1	1	15.42	15.42	15.41	16.5	0.0



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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)					3750				
100	PI2 BPSK	1	1		7.53				
100	PI2 BPSK	1	137		7.52		9.0	0.0	
100	PI2 BPSK	1	271		7.54				
100	PI2 BPSK	135	0		7.52		9.0	0.0	
100	PI2 BPSK	135	66		7.58		9.0	0.0	
100	PI2 BPSK	135	138		7.65		9.0	0.0	
100	PI2 BPSK	270	0		7.55				
100	QPSK	1	1		7.66				
100	QPSK	1	137		7.61		9.0	0.0	
100	QPSK	1	271		7.58				
100	QPSK	135	0		7.55				
100	QPSK	135	66		7.62		9.0	0.0	
100	QPSK	135	138		7.51				
100	QPSK	270	0		7.59		9.0	0.0	
100	16QAM	1	1		7.54		9.0	0.0	
100	64QAM	1	1		7.65		9.0	0.0	
100	256QAM	1	1		7.65		9.0	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1		7.54	7.61	7.58	9.0	0.0
Channel				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1		7.51	7.54	7.56	9.0	0.0
Channel				647000	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		7.62	7.65	7.63	9.0	0.0
Channel				646668	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1		7.55	7.60	7.61	9.0	0.0
Channel				648334	650000	651999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.01	3750	3774.99			
50	QPSK	1	1		7.60	7.61	7.64	9.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		7.55	7.64	7.60	9.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3764.98			
30	QPSK	1	1		7.62	7.51	7.56	9.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3769.99			
20	QPSK	1	1		7.65	7.51	7.54	9.0	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3750	3762.48			
15	QPSK	1	1		7.64	7.53	7.55	9.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		7.58	7.58	7.51	9.0	0.0

Par270 n78_Ant 10_HPUE									
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)					3750				
100	PI2 BPSK	1	1		7.53				
100	PI2 BPSK	1	137		7.52		9.0	0.0	
100	PI2 BPSK	1	271		7.54				
100	PI2 BPSK	135	0		7.52		9.0	0.0	
100	PI2 BPSK	135	66		7.58		9.0	0.0	
100	PI2 BPSK	135	138		7.65		9.0	0.0	
100	PI2 BPSK	270	0		7.55				
100	QPSK	1	1		7.66				
100	QPSK	1	137		7.61		9.0	0.0	
100	QPSK	1	271		7.58				
100	QPSK	135	0		7.55				
100	QPSK	135	66		7.62		9.0	0.0	
100	QPSK	135	138		7.51				
100	QPSK	270	0		7.59		9.0	0.0	
100	16QAM	1	1		7.54		9.0	0.0	
100	64QAM	1	1		7.65		9.0	0.0	
100	256QAM	1	1		7.65		9.0	0.0	
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.02	3750	3754.98			
90	QPSK	1	1		7.54	7.61	7.58	9.0	0.0
Channel				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3759.99			
80	QPSK	1	1		7.51	7.54	7.56	9.0	0.0
Channel				647000	650000	651332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		7.62	7.65	7.63	9.0	0.0
Channel				646668	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3769.98			
60	QPSK	1	1		7.55	7.60	7.61	9.0	0.0
Channel				648334	650000	651999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3723.01	3750	3774.99			
50	QPSK	1	1		7.60	7.61	7.64	9.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		7.55	7.64	7.60	9.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750.00	3764.98			
30	QPSK	1	1		7.62	7.51	7.56	9.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3769.99			
20	QPSK	1	1		7.65	7.51	7.54	9.0	0.0
Channel				647168	650000	652832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.50	3750	3762.48			
15	QPSK	1	1		7.64	7.53	7.55	9.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		7.58	7.58	7.51	9.0	0.0



Part27Q n78_Ant 10									
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				633332	3459.98				
Frequency (MHz)					7.50				
100	P12 BPSK	1	1		7.50				
100	P12 BPSK	1	137		7.54		9.0	0.0	
100	P12 BPSK	1	271		7.59				
100	P12 BPSK	135	0		7.55		9.0	0.0	
100	P12 BPSK	135	69		7.63				
100	P12 BPSK	135	138		7.61				
100	P12 BPSK	270	0		7.56				
100	QPSK	1	1		7.64				
100	QPSK	1	137		7.50		9.0	0.0	
100	QPSK	1	271		7.54				
100	QPSK	135	0		7.60				
100	QPSK	135	69		7.62		9.0		
100	QPSK	135	138		7.50				
100	QPSK	270	0		7.58		9.0	0.0	
100	16QAM	1	1		7.63		9.0	0.0	
100	16QAM	1	1		7.56		9.0	0.0	
100	256QAM	1	1		7.60		9.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3489.98	3504.98			
90	QPSK	1	1		7.62	7.54	7.52	9.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3489.98	3510			
80	QPSK	1	1		7.53	7.59	7.61	9.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3489.98	3514.98			
70	QPSK	1	1		7.59	7.57	7.53	9.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3489.98	3516.98			
60	QPSK	1	1		7.61	7.53	7.63	9.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3489.98	3525			
50	QPSK	1	1		7.53	7.63	7.60	9.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3489.98	3528.98			
40	QPSK	1	1		7.58	7.53	7.57	9.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3489.98	3534.98			
30	QPSK	1	1		7.59	7.61	7.55	9.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3489.98	3540			
20	QPSK	1	1		7.51	7.53	7.58	9.0	0.0
Channel				630300	633332	636166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3489.98	3542.49			
15	QPSK	1	1		7.63	7.63	7.58	9.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3489.98	3544.98			
10	QPSK	1	1		7.54	7.52	7.61	9.0	0.0

Part27Q n78_Ant 10_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				633332	3489.98				
Frequency (MHz)					7.50				
100	P12 BPSK	1	1		7.50				
100	P12 BPSK	1	137		7.54		9.0	0.0	
100	P12 BPSK	1	271		7.59				
100	P12 BPSK	135	0		7.55		9.0	0.0	
100	P12 BPSK	135	69		7.63		9.0	0.0	
100	P12 BPSK	135	138		7.61		9.0	0.0	
100	P12 BPSK	270	0		7.56				
100	QPSK	1	1		7.64				
100	QPSK	1	137		7.50		9.0	0.0	
100	QPSK	1	271		7.54				
100	QPSK	135	0		7.60				
100	QPSK	135	69		7.62		9.0	0.0	
100	QPSK	135	138		7.50				
100	QPSK	270	0		7.58		9.0	0.0	
100	16QAM	1	1		7.63		9.0	0.0	
100	16QAM	1	1		7.56		9.0	0.0	
100	256QAM	1	1		7.60		9.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485	3489.98	3504.98			
90	QPSK	1	1		7.62	7.54	7.52	9.0	0.0
Channel				632668	633332	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480.02	3489.98	3510			
80	QPSK	1	1		7.53	7.59	7.61	9.0	0.0
Channel				632334	633332	634332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3489.98	3514.98			
70	QPSK	1	1		7.59	7.57	7.53	9.0	0.0
Channel				632000	633332	634666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3489.98	3516.98			
60	QPSK	1	1		7.61	7.53	7.63	9.0	0.0
Channel				631668	633332	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3489.98	3525			
50	QPSK	1	1		7.53	7.63	7.60	9.0	0.0
Channel				631334	633332	635332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3489.98	3528.98			
40	QPSK	1	1		7.58	7.53	7.57	9.0	0.0
Channel				631000	633332	635666	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3489.98	3534.98			
30	QPSK	1	1		7.59	7.61	7.55	9.0	0.0
Channel				630668	633332	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3489.98	3540			
20	QPSK	1	1		7.51	7.53	7.58	9.0	0.0
Channel				630300	633332	636166	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3457.5	3489.98	3542.49			
15	QPSK	1	1		7.63	7.63	7.58	9.0	0.0
Channel				630334	633332	636332	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3489.98	3544.98			
10	QPSK	1	1		7.54	7.52	7.61	9.0	0.0

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<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default			Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.30	22.00	19	98.65
		6	2437	20.10	22.00	19	
		11	2462	21.10	23.00	20.5	
	802.11g 6Mbps	1	2412	20.60	22.00	20	98.10
		6	2437	20.50	22.00	20	
		11	2462	20.00	22.00	20	
	802.11n-HT20 MCS0	1	2412	20.70	22.00	20	97.96
		6	2437	20.60	22.00	20	
		11	2462	20.10	22.00	20	
	802.11n-HT40 MCS0	3	2422	19.20	21.00	19	93.00
		6	2437	19.60	21.00	19	
		9	2452	18.30	20.00	18	
	802.11ac-VHT20 MCS0	1	2412	19.67	21.00	20	97.96
		6	2437	19.58	21.00	20	
		11	2462	19.04	21.00	20	
	802.11ac-VHT40 MCS0	3	2422	18.05	20.00	19	93.00
		6	2437	18.53	20.00	19	
		9	2452	18.06	20.00	19	

<WLAN 5GHz>

5.2GHz WLAN_Ant 5				Default		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
5.2GHz WLAN	802.11a 6Mbps	36	5180	21.39	22.00	19	98.28
		40	5200	20.48	22.00	19	
		44	5220	20.59	22.00	19	
		48	5240	20.48	22.00	19	
	802.11n-HT20 MCS0	36	5180	20.65	22.00	19.5	97.79
		40	5200	20.42	22.00	19	
		44	5220	20.63	22.00	19	
		48	5240	20.45	22.00	19	
	802.11n-HT40 MCS0	36	5180	18.61	18.00	16	96.32
		40	5230	20.13	22.00	19.5	
		36	5180	20.77	22.00	18.5	
		40	5200	20.48	22.00	19	
	802.11ac-VHT20 MCS0	44	5220	20.65	22.00	19	97.79
		48	5240	20.52	22.00	19	
		38	5190	16.87	18.00	16	
		46	5230	19.73	21.50	19	
	802.11ac-VHT40 MCS0	42	5210	15.84	17.00	15.5	93.04
		42	5210	15.84	17.00	15.5	

5.3GHz WLAN_Ant 5				Default		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.40	22.00	19.5	98.28
		56	5280	20.33	22.00	19.5	
		60	5300	20.34	22.00	19.5	
		64	5320	20.38	22.00	19.5	
	802.11n-HT20 MCS0	52	5260	20.41	22.00	19.5	97.79
		56	5280	20.31	22.00	19.5	
		60	5300	20.35	22.00	19.5	
		64	5320	20.38	22.00	19.5	
	802.11n-HT40 MCS0	54	5270	20.41	22.00	20	96.32
		62	5310	16.41	18.00	17	
		52	5260	20.44	22.00	19.5	
		56	5280	20.38	22.00	19.5	
	802.11ac-VHT20 MCS0	60	5300	20.39	22.00	19.5	97.79
		64	5320	20.42	22.00	19.5	
		54	5270	19.42	21.00	19	
		62	5310	16.47	18.00	17	
	802.11ac-VHT40 MCS0	58	5290	13.72	15.00	14.5	93.04
		58	5290	13.72	15.00	14.5	

5.5GHz WLAN_Ant 5			Default			Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting			
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.43	21.00	19.5	98.28	
		116	5580	20.38	21.00	19.5		
		132	5660	20.35	21.00	19.5		
		140	5700	20.43	21.00	19.5		
	802.11n-HT20 MCS0	100	5500	19.61	21.00	19.5	97.79	
		116	5580	19.58	21.00	19.5		
		132	5660	20.29	21.00	19.5		
		140	5700	19.41	21.00	19.5		
	802.11n-HT40 MCS0	102	5510	19.02	20.50	18.5	96.32	
		110	5550	19.75	21.00	20		
		134	5670	19.08	20.50	18.5		
		100	5500	20.45	21.00	19.5		
	802.11ac-VHT20 MCS0	116	5580	20.40	21.00	19.5	97.79	
		132	5660	20.37	21.00	19.5		
		140	5700	20.45	21.00	19.5		
		102	5510	19.04	20.50	18.5		
	802.11ac-VHT40 MCS0	110	5550	19.83	21.00	19	96.32	
		134	5670	19.12	20.50	18.5		
		106	5530	16.78	18.00	16.5		93.04
		106	5530	16.78	18.00	16.5		

5.8GHz WLAN_Ant 5				Default		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.26	22.00	19.5	98.28
		157	5785	20.28	22.00	19.5	
		165	5825	20.26	22.00	19.5	
		149	5745	20.25	22.00	19.5	
	802.11n-HT20 MCS0	157	5785	20.27	22.00	19.5	97.79
		165	5825	20.26	22.00	19.5	
		151	5755	19.88	21.50	19.5	
		159	5795	20.11	22.00	19.5	
	802.11n-HT40 MCS0	149	5745	20.31	22.00	19.5	96.32
		157	5785	20.32	22.00	19.5	
		165	5825	20.29	22.00	19.5	
		151	5755	19.36	21.00	19	
	802.11ac-VHT20 MCS0	159	5795	19.61	21.00	19	96.32
		155	5775	18.12	20.00	18	
		155	5775	18.12	20.00	18	
		155	5775	18.12	20.00	18	

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.79	21.00	98.28
		40	5200	19.17	21.00	
		44	5220	19.16	21.00	
		48	5240	19.02	21.00	
	802.11n-HT20 MCS0	36	5180	19.03	20.50	98.16
		40	5200	18.61	20.50	
		44	5220	19.16	20.50	
		48	5240	19.02	20.50	
	802.11n-HT40 MCS0	36	5180	16.03	17.50	96.33
		46	5230	19.06	20.50	
		36	5180	19.06	20.50	
		40	5200	18.68	20.50	
	802.11ac-VHT20 MCS0	44	5220	19.18	20.50	98.16
		48	5240	19.04	20.50	
		38	5190	16.08	17.50	
		46	5230	18.50	20.50	
	802.11ac-VHT40 MCS0	42	5210	15.15	16.50	96.33
		42	5210	15.15	20.50	

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.38	21.00	98.28
		56	5280	19.48	21.00	
		60	5300	19.50	21.00	
		64	5320	19.31	21.00	
	802.11n-HT20 MCS0	52	5260	19.30	21.00	98.16
		56	5280	19.41	21.00	
		60	5300	19.51	21.00	
		64	5320	19.28	21.00	
	802.11n-HT40 MCS0	54	5270	19.30	21.00	96.33
		62	5310	15.88	17.50	
		52	5260	19.40	21.00	
		56	5280	19.45	21.00	
802.11ac-VHT20 MCS0	60	5300	19.53	21.00	98.16	
	64	5320	19.34	21.00		
	54	5270	18.28	20.00		
	62	5310	16.03	17.50		
802.11ac-VHT40 MCS0	58	5290	13.68	15.00	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-up Limit		
5.8GHz WLAN	802.11a 6Mbps	100	5500	19.23	21.00	98.28
		116	5580	19.19	21.00	
		132	5660	19.17	21.00	
	802.11n-HT20 MCS0	100	5500	19.18	21.00	98.16
		116	5580	19.08	21.00	
		132	5660	19.15	21.00	
	802.11n-HT40 MCS0	100	5500	19.12	21.00	96.33
		102	5510	17.53	20.00	
		110	5550	19.35	20.00	
	802.11ac-VHT20 MCS0	134	5670	17.85	19.50	98.16
		100	5500	19.25	21.00	
		116	5580	19.22	21.00	
	802.11ac-VHT40 MCS0	132	5660	19.20	21.00	96.33
		100	5500	19.19	21.00	
		102	5510	17.80	19.50	
	802.11ac-VHT80 MCS0	134	5670	19.34	20.00	91.88
134		5670	19.30	20.00		
106		5530	15.66	17.00		

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<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	16.85	18.50	98.65
		6	2437	16.53	18.50	
		11	2462	16.53	18.50	
	802.11g 6Mbps	1	2412	16.62	18.50	98.10
		6	2437	16.52	18.50	
		11	2462	16.71	18.50	
	802.11n-HT20 MCS0	1	2412	16.80	18.50	97.96
		6	2437	16.71	18.50	
		11	2462	16.60	18.50	
	802.11n-HT40 MCS0	3	2422	16.75	16.50	93.00
		6	2437	16.80	18.50	
		9	2452	16.76	18.50	
	802.11ac-VHT20 MCS0	1	2412	16.77	18.50	97.96
		6	2437	16.68	18.50	
		11	2462	16.54	18.50	
	802.11ac-VHT40 MCS0	3	2422	16.55	18.50	93.00
		6	2437	16.83	18.50	
		9	2452	16.56	18.50	

<WLAN 5GHz>

5.2GHz WLAN_Ant 5				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.2GHz WLAN	802.11a 6Mbps	36	5180	21.39	22.00	98.28
		40	5200	20.46	22.00	
		44	5220	20.59	22.00	
		48	5240	20.46	22.00	
	802.11n-HT20 MCS0	36	5180	20.65	22.00	97.79
		40	5200	20.42	22.00	
		44	5220	20.63	22.00	
		48	5240	20.45	22.00	
	802.11n-HT40 MCS0	38	5190	16.81	18.00	96.32
		46	5230	20.13	22.00	
		36	5180	20.77	22.00	
		40	5200	20.48	22.00	
	802.11ac-VHT20 MCS0	44	5220	20.65	22.00	97.79
		48	5240	20.52	22.00	
		38	5190	16.87	18.00	
		46	5230	19.73	21.50	
	802.11ac-VHT40 MCS0	42	5210	15.64	17.00	93.04

5.3GHz WLAN_Ant 5				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.40	22.00	98.28
		56	5280	20.33	22.00	
		60	5300	20.34	22.00	
		64	5320	20.38	22.00	
	802.11n-HT20 MCS0	52	5260	20.41	22.00	97.79
		56	5280	20.31	22.00	
		60	5300	20.35	22.00	
		64	5320	20.38	22.00	
	802.11n-HT40 MCS0	54	5270	20.41	22.00	96.32
		62	5310	16.41	18.00	
		52	5260	20.44	22.00	
		56	5280	20.38	22.00	
	802.11ac-VHT20 MCS0	60	5300	20.39	22.00	97.79
		64	5320	20.42	22.00	
		54	5270	19.42	21.00	
		62	5310	16.47	18.00	
	802.11ac-VHT40 MCS0	58	5290	13.72	15.00	93.04

5.5GHz WLAN_Ant 5				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.43	21.00	98.28
		116	5580	20.38	21.00	
		132	5660	20.35	21.00	
		140	5700	20.43	21.00	
	802.11n-HT20 MCS0	100	5500	19.61	21.00	97.79
		116	5580	19.58	21.00	
		132	5660	20.29	21.00	
		140	5700	19.41	21.00	
	802.11n-HT40 MCS0	102	5510	19.02	20.50	96.32
		110	5550	19.75	21.00	
		134	5670	19.08	20.50	
		100	5500	20.45	21.00	
	802.11ac-VHT20 MCS0	116	5580	20.40	21.00	97.79
		132	5660	20.37	21.00	
		140	5700	20.45	21.00	
		102	5510	19.04	20.50	
	802.11ac-VHT40 MCS0	110	5550	19.83	21.00	96.32
		134	5670	19.12	20.50	
		106	5530	16.78	18.00	

5.8GHz WLAN_Ant 5				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.26	22.00	98.28
		157	5785	20.28	22.00	
		165	5825	20.26	22.00	
		149	5745	20.25	22.00	
	802.11n-HT20 MCS0	157	5785	20.27	22.00	97.79
		165	5825	20.26	22.00	
		151	5755	19.88	21.50	
		159	5795	20.11	22.00	
	802.11n-HT40 MCS0	149	5745	20.31	22.00	96.32
		157	5785	20.32	22.00	
		165	5825	20.29	22.00	
		151	5755	19.36	21.00	
	802.11ac-VHT20 MCS0	159	5795	19.61	21.00	96.32
		155	5775	18.12	20.00	

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<WLAN 2.4GHz>

2.4GHz WLAN_Ant3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	13.84	15.50	98.65
		6	2437	13.66	15.50	
		11	2462	13.61	15.50	
	802.11g 6Mbps	1	2412		15.50	98.10
		6	2437		15.50	
		11	2462		15.50	
	802.11n-HT20 MCS0	1	2412		15.50	97.96
		6	2437		15.50	
		11	2462		15.50	
	802.11n-VHT40 MCS0	3	2422	Not Required	15.50	93.00
		6	2437		15.50	
		9	2452		15.50	
	802.11ac-VHT20 MCS0	1	2412		15.50	97.96
		6	2437		15.50	
		11	2462		15.50	
	802.11ac-VHT40 MCS0	3	2422		15.50	93.00
		6	2437		15.50	
		9	2452		15.50	

<WLAN 5GHz>

5.2GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	21.39	22.00	98.28
		40	5200	20.46	22.00	
		44	5220	20.59	22.00	
		48	5240	20.48	22.00	
	802.11n-HT20 MCS0	36	5180	20.65	22.00	97.79
		40	5200	20.42	22.00	
		44	5220	20.63	22.00	
		48	5240	20.45	22.00	
	802.11n-HT40 MCS0	38	5190	16.81	18.00	96.32
		46	5230	20.13	22.00	
		36	5180	20.77	22.00	
		40	5200	20.48	22.00	
	802.11ac-VHT20 MCS0	44	5220	20.65	22.00	97.79
		48	5240	20.52	22.00	
		38	5190	16.87	18.00	
		46	5230	19.73	21.50	
802.11ac-VHT80 MCS0	42	5210	15.84	17.00	93.04	

5.3GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.40	22.00	98.28
		56	5280	20.33	22.00	
		60	5300	20.34	22.00	
		64	5320	20.38	22.00	
	802.11n-HT20 MCS0	52	5260	20.41	22.00	97.79
		56	5280	20.31	22.00	
		60	5300	20.35	22.00	
		64	5320	20.38	22.00	
	802.11n-HT40 MCS0	54	5270	20.41	22.00	96.32
		62	5310	16.41	18.00	
		52	5260	20.44	22.00	
		56	5280	20.38	22.00	
	802.11ac-VHT20 MCS0	60	5300	20.39	22.00	97.79
		64	5320	20.42	22.00	
		54	5270	19.42	21.00	
		62	5310	16.47	18.00	
	802.11ac-VHT80 MCS0	58	5290	13.72	15.00	93.04

5.5GHz WLAN_Ant 5				Default		Duty Cycle %
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	
	802.11a 6Mbps	116	5500	20.43	21.00	98.28
		132	5580	20.38	21.00	
		140	5700	20.43	21.00	
		100	5500	19.61	21.00	
	802.11n-HT20 MCS0	116	5580	19.58	21.00	97.79
		132	5660	20.29	21.00	
		140	5700	19.41	21.00	
		102	5510	19.02	20.50	
	802.11n-HT40 MCS0	110	5550	19.75	21.00	96.32
		134	5670	19.08	20.50	
		100	5500	20.45	21.00	
		116	5580	20.40	21.00	
	802.11ac-VHT20 MCS0	132	5660	20.37	21.00	97.79
		140	5700	20.45	21.00	
		102	5510	19.04	20.50	
		110	5550	19.83	21.00	
	802.11ac-VHT40 MCS0	134	5670	19.12	20.50	96.32
		106	5530	16.78	18.00	
		106	5530	16.78	18.00	
106		5530	16.78	18.00		

5.8GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.8GHz	802.11a 6Mbps	149	5745	20.26	22.00	98.28
		157	5785	20.28	22.00	
		165	5825	20.26	22.00	
		149	5745	20.25	22.00	
	802.11n-HT20 MCS0	157	5785	20.27	22.00	97.79
		165	5825	20.26	22.00	
		151	5755	19.88	21.50	
		159	5795	20.11	22.00	
	802.11n-HT40 MCS0	149	5745	20.31	22.00	96.32
		157	5785	20.32	22.00	
		165	5825	20.29	22.00	
		151	5755	19.36	21.00	
	802.11ac-VHT20 MCS0	159	5795	19.61	21.00	96.32
		155	5775	18.12	20.00	
		155	5775	18.12	20.00	
		155	5775	18.12	20.00	

WIFI&Bluetooth Sensor on

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.89	19.50	98.65
		6	2437	17.81	19.50	
		11	2462	17.86	19.50	
	802.11g 6Mbps	1	2412	17.78	19.50	98.10
		6	2437	17.69	19.50	
		11	2462	17.81	19.50	
	802.11n-HT20 MCS0	1	2412	17.80	19.50	97.96
		6	2437	17.55	19.50	
		11	2462	17.60	19.50	
	802.11n-HT40 MCS0	3	2422	17.70	19.50	93.00
		6	2437	17.82	19.50	
		9	2452	17.80	19.50	
	802.11ac-VHT20 MCS0	1	2412	17.77	19.50	97.96
		6	2437	17.78	19.50	
		11	2462	17.54	19.50	
	802.11ac-VHT40 MCS0	3	2422	17.59	19.50	93.00
		6	2437	17.73	19.50	
		9	2452	17.56	19.50	

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	15.00	98.28
		40	5200		15.00	
		44	5220		15.00	
		48	5240		15.00	
	802.11n-HT20 MCS0	36	5180		15.00	98.16
		40	5200		15.00	
		44	5220		15.00	
		48	5240		15.00	
	802.11n-HT40 MCS0	38	5190		15.00	96.33
		46	5230		15.00	
		38	5180		15.00	
		40	5200		15.00	
	802.11ac-VHT20 MCS0	44	5220		15.00	98.16
		48	5240		15.00	
		38	5190		15.00	
		46	5230		15.00	
	802.11ac-VHT40 MCS0	46	5230		15.00	96.33
		42	5210		13.51	15.00

5.3GHz WLAN_Ant 8				Default		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5280		15.00	98.28
		56	5280		15.00	
		60	5300		15.00	
		64	5320		15.00	
	802.11n-HT20 MCS0	52	5280		15.00	98.16
		56	5280		15.00	
		60	5300		15.00	
		64	5320		15.00	
	802.11n-HT40 MCS0	54	5270		15.00	96.33
		62	5310		15.00	
		52	5280		15.00	
		56	5280		15.00	
	802.11ac-VHT20 MCS0	56	5280		15.00	98.16
		60	5300		15.00	
		64	5320		15.00	
		54	5270		15.00	
	802.11ac-VHT40 MCS0	62	5310		15.00	96.33
		58	5290	13.68	15.00	

5.5GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.5GHz WLAN	802.11a 6Mbps	100	5500	14.50	98.28	
		116	5580	14.50		
		132	5660	14.50		
		140	5700	14.50		
	802.11n-HT20 MCS0	100	5500	14.50	98.16	
		116	5580	14.50		
		132	5660	14.50		
		140	5700	14.50		
	802.11n-HT40 MCS0	102	5510	14.50	96.33	
		110	5550	14.50		
		134	5670	14.50		
		100	5500	14.50		
	802.11ac-VHT20 MCS0	116	5580	14.50	98.16	
		132	5660	14.50		
		140	5700	14.50		
		102	5510	14.50		
	802.11ac-VHT40 MCS0	110	5550	14.50	96.33	
		134	5670	14.50		
	802.11ac-VHT80 MCS0	106	5530	13.15	14.50	91.98

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	16.00	98.28
		157	5785		16.00	
		165	5825		16.00	
		149	5745		16.00	
	802.11n-HT20 MCS0	157	5785		16.00	98.16
		165	5825		16.00	
		151	5765		16.00	
		159	5795		16.00	
	802.11n-HT40 MCS0	149	5745		16.00	98.33
		157	5785		16.00	
		165	5825		16.00	
		151	5765		16.00	
	802.11ac-VHT20 MCS0	149	5745		16.00	98.16
		157	5785		16.00	
		165	5825		16.00	
		151	5765		16.00	
	802.11ac-VHT40 MCS0	159	5795		16.00	98.33
		155	5775		14.42	
802.11ac-VHT80 MCS0	155	5775	14.42	16.00	91.98	

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<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.59	16.50	98.65
		6	2437	14.85	16.50	
		11	2462	14.88	16.50	
	802.11g 6Mbps	1	2412	16.50	16.50	98.10
		6	2437	16.50	16.50	
		11	2462	16.50	16.50	
	802.11n-HT20 MCS0	1	2412	16.50	16.50	97.96
		6	2437	16.50	16.50	
		11	2462	16.50	16.50	
	802.11n-HT40 MCS0	3	2422	16.50	16.50	93.00
		6	2437	16.50	16.50	
		9	2452	16.50	16.50	
	802.11ac-VHT20 MCS0	1	2412	16.50	16.50	97.96
		6	2437	16.50	16.50	
		11	2462	16.50	16.50	
	802.11ac-VHT40 MCS0	3	2422	16.50	16.50	93.00
		6	2437	16.50	16.50	
		9	2452	16.50	16.50	

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.2GHz WLAN	802.11a 6Mbps	36	5180	10.50	10.50	98.28
		40	5200	10.50	10.50	
		44	5220	10.50	10.50	
		48	5240	10.50	10.50	
	802.11n-HT20 MCS0	36	5180	10.50	10.50	98.16
		40	5200	10.50	10.50	
		44	5220	10.50	10.50	
		48	5240	10.50	10.50	
	802.11n-HT40 MCS0	38	5190	10.50	10.50	96.33
		46	5230	10.50	10.50	
		36	5180	10.50	10.50	
		40	5200	10.50	10.50	
	802.11ac-VHT20 MCS0	44	5220	10.50	10.50	98.16
		48	5240	10.50	10.50	
		38	5190	10.50	10.50	
		46	5230	10.50	10.50	
	802.11ac-VHT40 MCS0	42	5210	9.35	10.50	91.98
		42	5210	9.35	10.50	

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.3GHz WLAN	802.11a 6Mbps	52	5260	10.50	10.50	98.28
		56	5280	10.50	10.50	
		60	5300	10.50	10.50	
		64	5320	10.50	10.50	
	802.11n-HT20 MCS0	52	5260	10.50	10.50	98.16
		56	5280	10.50	10.50	
		60	5300	10.50	10.50	
		64	5320	10.50	10.50	
	802.11n-HT40 MCS0	54	5270	10.50	10.50	96.33
		62	5310	10.50	10.50	
		52	5260	10.50	10.50	
		56	5280	10.50	10.50	
	802.11ac-VHT20 MCS0	60	5300	10.50	10.50	98.16
		64	5320	10.50	10.50	
		54	5270	10.50	10.50	
		62	5310	10.50	10.50	
	802.11ac-VHT40 MCS0	58	5290	9.11	10.50	91.98
		58	5290	9.11	10.50	

5.5GHz WLAN_Ant 8				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.5GHz WLAN	802.11a 6Mbps	100	5500	10.50	10.50	98.28
		116	5580	10.50	10.50	
		132	5660	10.50	10.50	
		140	5700	10.50	10.50	
	802.11n-HT20 MCS0	100	5500	10.50	10.50	98.16
		116	5580	10.50	10.50	
		132	5660	10.50	10.50	
		140	5700	10.50	10.50	
	802.11n-HT40 MCS0	102	5510	10.50	10.50	96.33
		110	5550	10.50	10.50	
		134	5670	10.50	10.50	
		100	5500	10.50	10.50	
	802.11ac-VHT20 MCS0	116	5580	10.50	10.50	98.16
		132	5660	10.50	10.50	
		140	5700	10.50	10.50	
		102	5510	10.50	10.50	
	802.11ac-VHT40 MCS0	110	5550	10.50	10.50	96.33
		134	5670	10.50	10.50	
		108	5530	9.18	10.50	
		108	5530	9.18	10.50	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745	11.00	11.00	98.28
		157	5785	11.00	11.00	
		165	5825	11.00	11.00	
		149	5745	11.00	11.00	
	802.11n-HT20 MCS0	157	5785	11.00	11.00	98.16
		165	5825	11.00	11.00	
		151	5755	11.00	11.00	
		159	5795	11.00	11.00	
	802.11n-HT40 MCS0	149	5745	11.00	11.00	96.33
		157	5785	11.00	11.00	
		165	5825	11.00	11.00	
		151	5755	11.00	11.00	
	802.11ac-VHT20 MCS0	157	5785	11.00	11.00	98.16
		165	5825	11.00	11.00	
		151	5755	11.00	11.00	
		159	5795	11.00	11.00	
	802.11ac-VHT40 MCS0	155	5775	9.85	11.00	91.98
		155	5775	9.85	11.00	
		155	5775	9.85	11.00	
		155	5775	9.85	11.00	

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<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
	802.11b 1Mbps	1	2412	20.30	22.00	98.65
		6	2437	20.10	22.00	
		11	2462	20.28	22.00	
	802.11g 6Mbps	1	2412		22.00	98.10
		6	2437		22.00	
		11	2462		22.00	
	802.11n-HT20 MCS0	1	2412		22.00	97.96
		6	2437		22.00	
		11	2462		22.00	
	802.11n-HT40 MCS0	3	2422	Not Required	21.00	93.00
		6	2437		21.00	
		9	2442		20.00	
	802.11ac-VHT20 MCS0	1	2412		21.00	97.96
		6	2437		21.00	
		11	2462		21.00	
	802.11ac-VHT40 MCS0	3	2422		20.00	93.00
		6	2437		20.00	
		9	2452		20.00	

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	36	5180		19.50	98.28
		40	5200		19.50	
		44	5220		19.50	
		48	5240	Not Required	19.50	
	802.11n-HT20 MCS0	36	5180		19.50	98.16
		40	5200		19.50	
		44	5220		19.50	
		48	5240		19.50	
	802.11n-HT40 MCS0	38	5190	16.03	17.50	96.33
		46	5230	17.98	19.50	
		36	5180		19.50	
		40	5200		19.50	
	802.11ac-VHT20 MCS0	44	5220		19.50	98.16
		48	5240	Not Required	19.50	
		38	5190		17.50	
		46	5230		19.50	
	802.11ac-VHT80 MCS0	42	5210		16.50	91.98

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	52	5260		19.00	98.28
		56	5280		19.00	
		60	5300		19.00	
		64	5320	Not Required	19.00	
	802.11n-HT20 MCS0	52	5260		19.00	98.16
		56	5280		19.00	
		60	5300		19.00	
		64	5320		19.00	
	802.11n-HT40 MCS0	54	5270	17.11	19.00	96.33
		62	5310	15.88	17.00	
		52	5260		19.00	
		56	5280		19.00	
	802.11ac-VHT20 MCS0	60	5300	Not Required	19.00	98.16
		64	5320		19.00	
		54	5270		19.00	
		62	5310		17.50	
	802.11ac-VHT80 MCS0	58	5290		15.00	91.98

5.5GHz WLAN_Ant 8				Default		Duty Cycle %
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	100	5500		18.00	98.28
		116	5580		18.00	
		132	5660		18.00	
		140	5700	Not Required	18.00	
	802.11n-HT20 MCS0	100	5500		18.00	98.16
		116	5580		18.00	
		132	5660		18.00	
		140	5700		18.00	
	802.11n-HT40 MCS0	102	5510	17.05	18.00	96.33
		110	5550	16.49	18.00	
		134	5670	17.36	19.00	
		100	5500		18.00	
	802.11ac-VHT20 MCS0	116	5580		18.00	98.16
		132	5660		18.00	
		140	5700	Not Required	18.00	
		102	5510		18.00	
	802.11ac-VHT40 MCS0	110	5550		18.00	96.33
		134	5670		18.00	
		106	5530		17.00	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	149	5745		19.00	98.28
		157	5785		19.00	
		165	5825		19.00	
		149	5745		19.00	
	802.11n-HT20 MCS0	157	5785		19.00	98.16
		165	5825		19.00	
		151	5755		19.00	
		159	5795	Not Required	19.00	
	802.11n-HT40 MCS0	149	5745		19.00	96.33
		157	5785		19.00	
		165	5825		19.00	
		151	5755		19.00	
	802.11ac-VHT20 MCS0	159	5795		19.00	96.33
		155	5775	17.36	19.00	
		149	5745		19.00	
		157	5785		19.00	
	802.11ac-VHT40 MCS0	151	5755		19.00	96.33
		159	5795		19.00	
		155	5775		19.00	

WIFI&Bluetooth Handheld+Sim

<WLAN 2.4GHz>

2.4GHz WLAN_Ant3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.41	17.00	98.65
		6	2437	15.34	17.00	
		11	2462	15.38	17.00	
	802.11g 6Mbps	1	2412	Not Required	17.00	98.10
		6	2437		17.00	
		11	2462		17.00	
	802.11n-HT20 MCS0	1	2412		17.00	97.96
		6	2437		17.00	
		11	2462		17.00	
	802.11n-HT40 MCS0	3	2422		16.00	93.00
		6	2437		16.00	
		9	2452		16.00	
	802.11ac-VHT20 MCS0	1	2412		16.00	97.96
		6	2437		16.00	
		11	2462		16.00	
	802.11ac-VHT40 MCS0	3	2422		15.00	93.00
		6	2437		15.00	
		9	2452		15.00	

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	16.00	98.28
		40	5200		16.00	
		44	5220		16.00	
		48	5240		16.00	
	802.11n-HT20 MCS0	36	5180		16.00	98.16
		40	5200		16.00	
		44	5220		16.00	
		48	5240		16.00	
	802.11n-HT40 MCS0	38	5190		16.00	96.33
		46	5230		16.00	
		36	5180		16.00	
		40	5200		16.00	
	802.11ac-VHT20 MCS0	44	5220		16.00	98.16
		48	5240		16.00	
		38	5190		16.00	
		46	5230		16.00	
	802.11ac-VHT80 MCS0	42	5210		14.58	91.98

5.3GHz WLAN_Ant 8				Default		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	Not Required	14.00	98.28
		56	5280		14.00	
		60	5300		14.00	
		64	5320		14.00	
	802.11n-HT20 MCS0	52	5260		14.00	98.16
		56	5280		14.00	
		60	5300		14.00	
		64	5320		14.00	
	802.11n-HT40 MCS0	54	5270		14.00	96.33
		62	5310		14.00	
		52	5260		14.00	
		56	5280		14.00	
	802.11ac-VHT20 MCS0	60	5300		14.00	98.16
		64	5320		14.00	
		54	5270		14.00	
		62	5310		14.00	
802.11ac-VHT40 MCS0	58	5290	12.75		91.98	

5.5GHz WLAN_Ant 8				Default		Duty Cycle %
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
	802.11a 6Mbps	116	5580	Not Required	14.50	98.28
		132	5660		14.50	
		140	5700		14.50	
		100	5500		14.50	
	802.11n-HT20 MCS0	116	5580		14.50	98.16
		132	5660		14.50	
		140	5700		14.50	
		102	5510		14.50	
	802.11n-HT40 MCS0	110	5550		14.50	96.33
		134	5670		14.50	
		100	5500		14.50	
		802.11ac-VHT20 MCS0	116		5580	
	132		5660		14.50	
	140		5700		14.50	
	102		5510		14.50	
	802.11ac-VHT40 MCS0	110	5550		14.50	96.33
		134	5670		14.50	
		106	5530		13.15	91.98

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit		
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	15.00	98.28
		157	5785		15.00	
		165	5825		15.00	
		149	5745		15.00	
	802.11n-HT20 MCS0	157	5785		15.00	98.16
		165	5825		15.00	
		151	5765		15.00	
		159	5795		15.00	
	802.11n-HT40 MCS0	149	5745		15.00	96.33
		157	5785		15.00	
		165	5825		15.00	
		151	5765		15.00	
	802.11ac-VHT20 MCS0	159	5795		15.00	96.16
		149	5745		15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11ac-VHT40 MCS0	151	5765		15.00	96.33
159		5795	15.00			
155		5775	13.48	91.98		

WIFI&Bluetooth Hotspot

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.91	17.50	98.65
		6	2437	15.84	17.50	
		11	2462	15.88	17.50	
	802.11g 6Mbps	1	2412		17.50	98.10
		6	2437		17.50	
		11	2462		17.50	
	802.11n-HT20 MCS0	1	2412		17.50	97.96
		6	2437		17.50	
		11	2462		17.50	
	802.11n-HT40 MCS0	3	2422	Not Required	17.50	93.00
		6	2437		17.50	
		9	2452		17.50	
	802.11ac-VHT20 MCS0	1	2412		17.50	97.96
		6	2437		17.50	
		11	2462		17.50	
	802.11ac-VHT40 MCS0	3	2422		17.50	93.00
		6	2437		17.50	
		9	2452		17.50	

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.2GHz WLAN	802.11a 6Mbps	36	5180		13.50	98.28
		40	5200		13.50	
		44	5220		13.50	
		48	5240		13.50	
	802.11n-HT20 MCS0	36	5180		13.50	98.16
		40	5200		13.50	
		44	5220		13.50	
		48	5240		13.50	
	802.11n-HT40 MCS0	38	5190	Not Required	13.50	96.33
		46	5230		13.50	
		36	5180		13.50	
		40	5200		13.50	
	802.11ac-VHT20 MCS0	44	5220		13.50	98.16
		48	5240		13.50	
		38	5190		13.50	
		46	5230		13.50	
	802.11ac-VHT40 MCS0	38	5190		13.50	96.33
		46	5230		13.50	
	802.11ac-VHT80 MCS0	42	5210	12.75	13.50	91.98

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	
5.8GHz WLAN	802.11a 6Mbps	149	5745		12.50	98.28
		157	5785		12.50	
		165	5825		12.50	
	802.11n-HT20 MCS0	149	5745		12.50	98.16
		157	5785		12.50	
		165	5825		12.50	
	802.11n-HT40 MCS0	151	5765	Not Required	12.50	96.33
		159	5795		12.50	
		149	5745		12.50	
	802.11ac-VHT20 MCS0	157	5785		12.50	98.16
		165	5825		12.50	
		151	5765		12.50	
	802.11ac-VHT40 MCS0	159	5795		12.50	96.33
		155	5775	11.15	12.50	
	802.11ac-VHT80 MCS0	155	5775	11.15	12.50	91.98

BR/EDR_Standalone

Mode	Channel	Frequency (MHz)	Ant 3					
			Average power (dBm)					
			DH5	Tune-up limit	2DH5	Tune-up limit	3DH5	Tune-up limit
Bluetooth	CH 0	2402	10.60	12.00	6.40	8.00	6.40	8.00
	CH 39	2441	12.20	14.00	7.90	9.50	7.90	9.50
	CH 78	2480	12.80	14.00	9.10	10.00	9.10	10.00

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	5.50
	CH 19	2440	6.70
	CH 39	2480	7.30
Tune-up Limit			8.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	5.50	5.40
	CH 19	2440	6.70	6.60
	CH 39	2480	7.30	7.20
Tune-up Limit			8.00	