



Band 2 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	QPSK	1	0	23.14	23.29	23.21	24	0				
20	QPSK	1	49	23.02	23.21	23.16						
20	QPSK	1	99	23.05	23.16	23.11						
20	QPSK	50	0	22.26	22.33	22.20						
20	QPSK	50	24	22.15	22.27	22.13	23	1				
20	QPSK	50	50	22.18	22.22	22.15						
20	QPSK	100	0	22.17	22.26	22.20						
20	16QAM	1	0	22.30	22.37	22.31						
20	16QAM	1	49	22.23	22.31	22.27	23	1				
20	16QAM	1	99	22.21	22.27	22.22						
20	16QAM	50	0	21.28	21.32	21.24						
20	16QAM	50	24	21.17	21.24	21.20						
20	16QAM	50	50	21.19	21.28	21.23	22	2				
20	16QAM	100	0	21.12	21.25	21.20						
20	64QAM	1	0	21.13	21.36	21.20						
20	64QAM	1	49	21.08	21.23	21.16						
20	64QAM	1	99	21.06	21.15	21.08	22	2				
20	64QAM	50	0	20.07	20.20	20.16						
20	64QAM	50	24	20.15	20.19	20.16						
20	64QAM	50	50	20.12	20.09	20.18						
20	64QAM	100	0	20.07	20.29	20.29	21	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.04	23.22	23.12	24	0				
15	QPSK	1	37	22.96	23.09	23.07						
15	QPSK	1	74	23.00	23.11	23.01						
15	QPSK	36	0	22.12	22.24	22.12						
15	QPSK	36	20	22.03	22.19	22.09	23	1				
15	QPSK	36	39	22.06	22.17	22.02						
15	QPSK	75	0	22.13	22.13	22.08						
15	16QAM	1	0	22.20	22.29	22.27						
15	16QAM	1	37	22.09	22.18	22.16	23	1				
15	16QAM	1	74	22.17	22.23	22.16						
15	16QAM	36	0	21.23	21.19	21.09						
15	16QAM	36	20	21.05	21.19	21.11						
15	16QAM	36	39	21.04	21.25	21.19	22	2				
15	16QAM	75	0	21.08	21.12	21.10						
15	64QAM	1	0	21.16	21.30	21.24						
15	64QAM	1	37	21.16	21.28	21.13						
15	64QAM	1	74	21.09	21.24	21.09	22	2				
15	64QAM	36	0	20.23	20.31	20.21						
15	64QAM	36	20	20.11	20.37	20.25						
15	64QAM	36	39	20.15	20.28	20.12						
15	64QAM	75	0	20.11	20.25	20.30	21	3				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.04	23.21	23.13	24	0				
10	QPSK	1	25	23.03	23.16	23.13						
10	QPSK	1	49	22.92	23.07	23.04						
10	QPSK	25	0	22.22	22.28	22.06						
10	QPSK	25	12	22.12	22.23	22.05	23	1				
10	QPSK	25	25	22.14	22.16	22.08						
10	QPSK	50	0	22.10	22.15	22.17						
10	16QAM	1	0	22.17	22.24	22.24						
10	16QAM	1	25	22.19	22.23	22.22	23	1				
10	16QAM	1	49	22.15	22.21	22.07						
10	16QAM	25	0	21.22	21.24	21.18						
10	16QAM	25	12	21.12	21.15	21.10						
10	16QAM	25	25	21.05	21.19	21.12	22	2				
10	16QAM	50	0	21.02	21.16	21.12						
10	64QAM	1	0	21.09	21.28	21.20						
10	64QAM	1	25	21.07	21.27	21.19						
10	64QAM	1	49	21.03	21.09	21.09	22	2				
10	64QAM	25	0	20.22	20.23	20.14						
10	64QAM	25	12	20.06	20.33	20.28						
10	64QAM	25	25	20.20	20.25	20.17						
10	64QAM	50	0	20.23	20.31	20.24	21	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.04	23.19	23.07	24	0				
5	QPSK	1	12	23.00	23.13	23.11						
5	QPSK	1	24	22.97	23.12	23.03						
5	QPSK	12	0	22.13	22.26	22.07						
5	QPSK	12	7	22.01	22.21	22.06	23	1				
5	QPSK	12	13	22.12	22.08	22.11						
5	QPSK	25	0	22.10	22.12	22.16						
5	16QAM	1	0	22.26	22.26	22.17						
5	16QAM	1	12	22.10	22.18	22.16	23	1				
5	16QAM	1	24	22.08	22.20	22.11						
5	16QAM	12	0	21.14	21.26	21.21						
5	16QAM	12	7	21.08	21.09	21.16						
5	16QAM	12	13	21.10	21.23	21.15	22	2				
5	16QAM	25	0	21.06	21.12	21.06						
5	64QAM	1	0	21.22	21.27	21.23						
5	64QAM	1	12	21.09	21.29	21.18						
5	64QAM	1	24	21.01	21.10	21.08	22	2				
5	64QAM	12	0	20.20	20.23	20.17						
5	64QAM	12	7	20.20	20.34	20.20						
5	64QAM	12	13	20.15	20.21	20.14						
5	64QAM	25	0	20.06	20.34	20.17	21	3				
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.10	23.21	23.08	24	0				
3	QPSK	1	8	23.01	23.09	23.03						
3	QPSK	1	14	22.96	23.04	23.02						
3	QPSK	8	0	22.22	22.24	22.07						
3	QPSK	8	4	22.12	22.13	22.08	23	1				
3	QPSK	8	7	22.09	22.12	22.11						
3	QPSK	15	0	22.03	22.21	22.09						
3	16QAM	1	0	22.17	22.33	22.22						
3	16QAM	1	8	22.14	22.16	22.24	23	1				
3	16QAM	1	14	22.07	22.19	22.09						
3	16QAM	8	0	21.23	21.25	21.11						
3	16QAM	8	4	21.11	21.13	21.15						
3	16QAM	8	7	21.09	21.16	21.13	22	2				
3	16QAM	15	0	21.08	21.19	21.06						
3	64QAM	1	0	21.22	21.23	21.19						
3	64QAM	1	8	21.07	21.26	21.07						
3	64QAM	1	14	21.12	21.07	21.19	22	2				
3	64QAM	8	0	20.12	20.38	20.27						
3	64QAM	8	4	20.22	20.34	20.13						
3	64QAM	8	7	20.21	20.28	20.18						
3	64QAM	15	0	20.20	20.37	20.15	21	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.04	23.20	23.09	24	0				
1.4	QPSK	1	3	22.97	23.06	23.04						
1.4	QPSK	1	5	23.01	23.09	23.03						
1.4	QPSK	3	0	23.04	23.16	23.14						
1.4	QPSK	3	1	23.02	23.08	23.06	23	1				
1.4	QPSK	3	3	22.95	23.07	22.96						
1.4	QPSK	6	0	22.20	22.19	22.10						
1.4	16QAM	1	0	22.00	22.22	22.03						
1.4	16QAM	1	3	22.11	22.16	22.07	23	1				
1.4	16QAM	1	5	22.04	22.19	22.14						
1.4	16QAM	3	0	22.22	22.30	22.27						
1.4	16QAM	3	1	22.11	22.22	22.18						
1.4	16QAM	3	3	22.09	22.18	22.10	22	2				
1.4	16QAM	6	0	21.19	21.20	21.11						
1.4	64QAM	1	0	21.22	21.30	21.21						
1.4	64QAM	1	3	21.28	21.28	21.21						
1.4	64QAM	1	5	21.04	21.08	21.05	22	2				
1.4	64QAM	1	7	21.15	21.11	21.21						
1.4	64QAM	3	1	21.06	21.16	21.09						
1.4	64QAM	3	3	21.00	21.15	21.14						
1.4	64QAM	6	0	20.16	20.24	20.28	21	3				

Band 7 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				20850	21100	21350	24	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.50	23.70	23.63	23	1	
20	QPSK	1	49	23.46	23.56	23.52			
20	QPSK	1	99	23.46	23.45	23.50	23	1	
20	QPSK	50	0	22.64	22.69	22.65			
20	QPSK	50	24	22.56	22.63	22.42	23	1	
20	QPSK	50	50	22.59	22.56	22.53			
20	QPSK	100	0	22.43	22.70	22.66	23	1	
20	16QAM	1	0	22.67	22.78	22.66			
20	16QAM	1	49	22.69	22.66	22.68	23	1	
20	16QAM	1	99	22.55	22.60	22.60			
20	16QAM	50	0	21.60	21.76	21.66	22	2	
20	16QAM	50	24	21.54	21.62	21.62			
20	16QAM	50	50	21.48	21.61	21.56	22	2	
20	16QAM	100	0	21.42	21.66	21.49			
20	64QAM	1	0	21.42	21.73	21.64	22	2	
20	64QAM	1	49	21.56	21.71	21.62			
20	64QAM	1	99	21.54	21.78	21.59	21	3	
20	64QAM	50	0	20.46	20.76	20.54			
20	64QAM	50	24	20.57	20.65	20.66	21	3	
20	64QAM	50	50	20.55	20.65	20.66			
20	64QAM	100	0	20.50	20.70	20.71	21	3	
Channel				20825	21100	21375		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24	0	
15	QPSK	1	0	23.39	23.65	23.50			
15	QPSK	1	37	23.36	23.44	23.43	23	1	
15	QPSK	1	74	23.39	23.34	23.37			
15	QPSK	36	0	22.64	22.60	22.59	23	1	
15	QPSK	36	20	22.43	22.52	22.39			
15	QPSK	36	39	22.55	22.44	22.43	23	1	
15	QPSK	75	0	22.38	22.62	22.53			
15	16QAM	1	0	22.57	22.72	22.52	23	1	
15	16QAM	1	37	22.62	22.63	22.59			
15	16QAM	1	74	22.45	22.46	22.53	22	2	
15	16QAM	36	0	21.54	21.63	21.52			
15	16QAM	36	20	21.40	21.59	21.55	22	2	
15	16QAM	36	39	21.41	21.55	21.50			
15	16QAM	75	0	21.38	21.61	21.35	22	2	
15	64QAM	1	0	21.42	21.73	21.65			
15	64QAM	1	37	21.41	21.66	21.66	21	3	
15	64QAM	1	74	21.50	21.74	21.58			
15	64QAM	36	0	20.51	20.73	20.70	21	3	
15	64QAM	36	20	20.55	20.62	20.56			
15	64QAM	36	39	20.53	20.77	20.55	21	3	
15	64QAM	75	0	20.46	20.63	20.67			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2565	24	0	
10	QPSK	1	0	23.37	23.59	23.51			
10	QPSK	1	25	23.32	23.53	23.46	23	1	
10	QPSK	1	49	23.34	23.39	23.46			
10	QPSK	25	0	22.58	22.50	22.61	23	1	
10	QPSK	25	12	22.48	22.59	22.35			
10	QPSK	25	25	22.51	22.51	22.40	23	1	
10	QPSK	50	0	22.32	22.64	22.53			
10	16QAM	1	0	22.54	22.67	22.61	23	1	
10	16QAM	1	25	22.55	22.57	22.64			
10	16QAM	1	49	22.43	22.50	22.54	22	2	
10	16QAM	25	0	21.47	21.64	21.55			
10	16QAM	25	12	21.45	21.55	21.53	22	2	
10	16QAM	25	25	21.43	21.54	21.46			
10	16QAM	50	0	21.32	21.56	21.36	22	2	
10	64QAM	1	0	21.47	21.72	21.57			
10	64QAM	1	25	21.51	21.73	21.66	21	3	
10	64QAM	1	49	21.54	21.62	21.56			
10	64QAM	25	0	20.43	20.61	20.70	21	3	
10	64QAM	25	12	20.58	20.79	20.61			
10	64QAM	25	25	20.46	20.61	20.55	21	3	
10	64QAM	50	0	20.53	20.70	20.71			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24	0	
5	QPSK	1	0	23.45	23.64	23.57			
5	QPSK	1	12	23.38	23.45	23.39	23	1	
5	QPSK	1	24	23.33	23.42	23.44			
5	QPSK	12	0	22.65	22.59	22.51	23	1	
5	QPSK	12	7	22.51	22.49	22.30			
5	QPSK	12	13	22.47	22.45	22.43	23	1	
5	QPSK	25	0	22.28	22.63	22.61			
5	16QAM	1	0	22.63	22.71	22.55	23	1	
5	16QAM	1	12	22.64	22.53	22.64			
5	16QAM	1	24	22.44	22.51	22.56	22	2	
5	16QAM	12	0	21.55	21.66	21.60			
5	16QAM	12	7	21.44	21.54	21.58	22	2	
5	16QAM	12	13	21.44	21.56	21.53			
5	16QAM	25	0	21.29	21.57	21.38	22	2	
5	64QAM	1	0	21.57	21.76	21.57			
5	64QAM	1	12	21.45	21.71	21.65	22	2	
5	64QAM	1	24	21.58	21.64	21.72			
5	64QAM	12	0	20.54	20.70	20.57	21	3	
5	64QAM	12	7	20.54	20.63	20.63			
5	64QAM	12	13	20.44	20.64	20.59	21	3	
5	64QAM	25	0	20.49	20.71	20.55			

Band 12 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				23060	23095	23130	24	0	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.23	23.41	23.31	23	1	
10	QPSK	1	25	23.19	23.39	23.27			
10	QPSK	1	49	23.15	23.19	23.16	23	1	
10	QPSK	25	0	22.43	22.32	22.33			
10	QPSK	25	12	22.27	22.34	22.13	23	1	
10	QPSK	25	25	22.34	22.23	22.24			
10	QPSK	50	0	22.16	22.46	22.31	23	1	
10	16QAM	1	0	22.44	22.49	22.32			
10	16QAM	1	25	22.45	22.38	22.44	22	2	
10	16QAM	1	49	22.25	22.35	22.31			
10	16QAM	25	0	21.31	21.47	21.42	22	2	
10	16QAM	25	12	21.21	21.32	21.30			
10	16QAM	25	25	21.19	21.35	21.26	22	2	
10	16QAM	50	0	21.13	21.40	21.16			
10	64QAM	1	0	21.21	21.37	21.33	22	2	
10	64QAM	1	25	21.24	21.34	21.32			
10	64QAM	1	49	21.24	21.50	21.24	21	3	
10	64QAM	25	0	20.20	20.49	20.24			
10	64QAM	25	12	20.29	20.33	20.33	21	3	
10	64QAM	25	25	20.26	20.46	20.37			
10	64QAM	50	0	20.20	20.42	20.25	21	3	
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5	24	0	
5	QPSK	1	0	23.16	23.34	23.22		23	1
5	QPSK	1	12	23.04	23.18	23.12	23		1
5	QPSK	1	24	23.11	23.11	23.06		23	1
5	QPSK	12	0	22.35	22.26	22.30	23		1
5	QPSK	12	7	22.19	22.26	21.99		23	1
5	QPSK	12	13	22.21	22.21	22.21	23		1
5	QPSK	25	0	22.11	22.43	22.22		23	1
5	16QAM	1	0	22.37	22.40	22.21	23		1
5	16QAM	1	12	22.30	22.35	22.37		22	2
5	16QAM	1	24	22.11	22.30	22.23	22		2
5	16QAM	12	0	21.28	21.42	21.37		22	2
5	16QAM	12	7	21.08	21.21	21.27	22		2
5	16QAM	12	13	21.08	21.17	21.13		22	2
5	16QAM	25	0	21.02	21.35	21.11	22		2
5	64QAM	1	0	21.18	21.42	21.26		21	3
5	64QAM	1	12	21.29	21.35	21.24	21		3
5	64QAM	1	24	21.30	21.46	21.25		21	3
5	64QAM	12	0	20.16	20.48	20.36	21		3
5	64QAM	12	7	20.29	20.49	20.26		21	3
5	64QAM	12	13	20.29	20.49	20.39	21		3
5	64QAM	25	0	20.20	20.44	20.34		21	3
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5	24	0	
3	QPSK	1	0	23.14	23.37	23.21		23	1
3	QPSK	1	8	23.11	23.15	23.14	23		1
3	QPSK	1	14	23.03	23.06	23.08		23	1
3	QPSK	8	0	22.36	22.20	22.28	23		1
3	QPSK	8	4	22.23	22.26	22.21		23	1
3	QPSK	8	7	22.22	22.17	22.09	23		1
3	QPSK	15	0	22.02	22.40	22.27		23	1
3	16QAM	1	0	22.38	22.43	22.27	23		1
3	16QAM	1	8	22.39	22.24	22.34		23	1
3	16QAM	1	14	22.13	22.28	22.27	22		2
3	16QAM	8	0	21.26	21.44	21.30		22	2
3	16QAM	8	4	21.12	21.20	21.22	22		2
3	16QAM	8	7	21.15	21.25	21.19		22	2
3	16QAM	15	0	21.02	21.33	21.13	22		2
3	84QAM	1	8	21.13	21.39	21.29		22	2
3	84QAM	1	8	21.17	21.33	21.38	22		2
3	84QAM	1	14	21.16	21.42	21.26		21	3
3	84QAM	8	0	20.21	20.48	20.28	21		3
3	84QAM	8	4	20.22	20.38	20.32		21	3
3	84QAM	8	7	20.15	20.39	20.33	21		3
3	84QAM	15	0	20.23	20.39	20.26		21	3
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3	24	0	
1.4	QPSK	1	0	23.14	23.36	23.21		23	1
1.4	QPSK	1	3	23.04	23.22	23.15	23		1
1.4	QPSK	1	5	23.12	23.06	23.09		23	1
1.4	QPSK	3	0	23.15	23.26	23.23	23		1
1.4	QPSK	3	1	23.06	23.13	23.17		23	1
1.4	QPSK	3	3	23.11	23.15	23.14	23		1
1.4	QPSK	6	0	22.37	22.26	22.28		23	1
1.4	16QAM	1	0	22.24	22.25	22.08	23		1
1.4	16QAM	1	3	22.27	22.12	22.11		23	1
1.4	16QAM	1	5	22.05	22.39	22.27	22		2
1.4	16QAM	3	0	22.38	22.38	22.22		22	2
1.4	16QAM	3	1	22.36	22.29	22.40	22		2
1.4	16QAM	3	3	22.18	22.32	22.26		22	2
1.4	16QAM	6	0	21.18	21.43	21.29	22		2
1.4	64QAM	1	0	21.25	21.41	21.36		22	2
1.4	64QAM	1	3	21.15	21.34	21.34	22		2
1.4	64QAM	1	5	21.25	21.50	21.30		22	2
1.4	84QAM	3	0	21.30	21.49	21.40	22		2
1.4	84QAM	3	1	21.20	21.49	21.36		21	3
1.4	64QAM	3	3	21.19	21.37	21.23	21		3
1.4	64QAM	6	0	20.29	20.37	20.30		21	3

Band 14 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				23305	23330				
Frequency (MHz)				793					
10	QPSK	1	0		23.78		24.5	0	
10	QPSK	1	25		23.68				
10	QPSK	1	49		23.64				
10	QPSK	25	0		22.75		23.5	1	
10	QPSK	25	12		22.71				
10	QPSK	25	25		22.64				
10	QPSK	50	0		22.70		23.5	1	
10	16QAM	1	0		22.80				
10	16QAM	1	25		22.82				
10	16QAM	1	49		22.77		22.5	2	
10	16QAM	25	0		21.85				
10	16QAM	25	12		21.77				
10	16QAM	25	25		21.70		22.5	2	
10	16QAM	50	0		21.68				
10	64QAM	1	0		21.81				
10	64QAM	1	25		21.83		22.5	2	
10	64QAM	1	49		21.71				
10	64QAM	25	0		20.80				
10	64QAM	25	12		20.71		21.5	3	
10	64QAM	25	25		20.79				
10	64QAM	50	0		20.79				
Channel				23305	23330	23355			
Frequency (MHz)				790.5	793	795.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.72	23.74	23.71	24.5	0	
5	QPSK	1	12	23.68	23.68	23.72			
5	QPSK	1	24	23.69	23.62	23.57			
5	QPSK	12	0	22.84	22.82	22.74	23.5	1	
5	QPSK	12	7	22.72	22.73	22.76			
5	QPSK	12	13	22.67	22.68	22.66			
5	QPSK	25	0	22.70	22.76	22.69	23.5	1	
5	16QAM	1	0	22.89	22.81	22.81			
5	16QAM	1	12	22.80	22.73	22.83			
5	16QAM	1	24	22.78	22.78	22.72	22.5	2	
5	16QAM	12	0	21.76	21.82	21.78			
5	16QAM	12	7	21.73	21.75	21.76			
5	16QAM	12	13	21.79	21.75	21.79	22.5	2	
5	16QAM	25	0	21.69	21.75	21.74			
5	64QAM	1	0	21.73	21.75	21.73			
5	64QAM	1	12	21.76	21.73	21.71	22.5	2	
5	64QAM	1	24	21.60	21.79	21.79			
5	64QAM	12	0	20.82	20.84	20.77			
5	64QAM	12	7	20.81	20.69	20.80	21.5	3	
5	64QAM	12	13	20.63	20.70	20.59			
5	64QAM	25	0	20.76	20.83	20.81			

Band 25 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				26140	26340	26590			
Frequency (MHz)				1860	1880	1905			
20	QPSK	1	0	23.26	23.35	23.29	24	0	
20	QPSK	1	49	23.12	23.26	23.16			
20	QPSK	1	99	23.07	23.23	23.14			
20	QPSK	50	0	22.27	22.35	22.25	23	1	
20	QPSK	50	24	22.23	22.34	22.23			
20	QPSK	50	50	22.21	22.23	22.27			
20	QPSK	100	0	22.23	22.28	22.25	23	1	
20	16QAM	1	0	22.42	22.46	22.43			
20	16QAM	1	49	22.35	22.34	22.35			
20	16QAM	1	99	22.31	22.33	22.28	22	2	
20	16QAM	50	0	21.40	21.40	21.27			
20	16QAM	50	24	21.22	21.35	21.27			
20	16QAM	50	50	21.29	21.36	21.27	22	2	
20	16QAM	100	0	21.21	21.32	21.26			
20	64QAM	1	0	21.17	21.43	21.19			
20	64QAM	1	49	21.31	21.43	21.34	22	2	
20	64QAM	1	99	21.32	21.30	21.21			
20	64QAM	50	0	20.19	20.28	20.38			
20	64QAM	50	24	20.24	20.43	20.28	21	3	
20	64QAM	50	50	20.23	20.27	20.35			
20	64QAM	100	0	20.25	20.29	20.18			
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	23.22	23.23	23.18	24	0	
15	QPSK	1	37	23.07	23.14	23.08			
15	QPSK	1	74	22.96	23.13	23.00			
15	QPSK	36	0	22.24	22.30	22.12	23	1	
15	QPSK	36	20	22.14	22.30	22.20			
15	QPSK	36	39	22.10	22.15	22.18			
15	QPSK	75	0	22.10	22.17	22.15	23	1	
15	16QAM	1	0	22.30	22.33	22.35			
15	16QAM	1	37	22.25	22.22	22.24			
15	16QAM	1	74	22.22	22.21	22.15	22	2	
15	16QAM	36	0	21.36	21.31	21.21			
15	16QAM	36	20	21.07	21.28	21.20			
15	16QAM	36	39	21.20	21.23	21.20	22	2	
15	16QAM	75	0	21.09	21.27	21.18			
15	64QAM	1	0	21.21	21.41	21.32			
15	64QAM	1	37	21.26	21.27	21.32	22	2	
15	64QAM	1	74	21.23	21.37	21.22			
15	64QAM	36	0	20.23	20.46	20.34			
15	64QAM	36	20	20.35	20.36	20.20	21	3	
15	64QAM	36	39	20.25	20.26	20.38			
15	64QAM	75	0	20.17	20.38	20.37			
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	23.12	23.27	23.18	24	0	
10	QPSK	1	25	23.08	23.12	23.14			
10	QPSK	1	49	22.97	23.12	23.00			
10	QPSK	25	0	22.23	22.30	22.21	23	1	
10	QPSK	25	12	22.14	22.30	22.13			
10	QPSK	25	25	22.10	22.14	22.21			
10	QPSK	50	0	22.08	22.21	22.14	23	1	
10	16QAM	1	0	22.37	22.43	22.31			
10	16QAM	1	25	22.23	22.21	22.30			
10	16QAM	1	49	22.22	22.19	22.14	22	2	
10	16QAM	25	0	21.25	21.33	21.23			
10	16QAM	25	12	21.18	21.26	21.20			
10	16QAM	25	25	21.14	21.31	21.17	22	2	
10	16QAM	50	0	21.10	21.20	21.17			
10	64QAM	1	0	21.18	21.33	21.39			
10	64QAM	1	25	21.33	21.45	21.33	22	2	
10	64QAM	1	49	21.19	21.34	21.29			
10	64QAM	25	0	20.29	20.37	20.36			
10	64QAM	25	12	20.30	20.30	20.24	21	3	
10	64QAM	25	25	20.24	20.37	20.35			
10	64QAM	50	0	20.37	20.31	20.36			
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	23.13	23.25	23.23	24	0	
5	QPSK	1	12	23.06	23.20	23.07			
5	QPSK	1	24	22.97	23.13	23.07			
5	QPSK	12	0	22.20	22.21	22.18	23	1	
5	QPSK	12	7	22.17	22.25	22.09			
5	QPSK	12	13	22.12	22.10	22.19			
5	QPSK	25	0	22.16	22.14	22.11	23	1	
5	16QAM	1	0	22.35	22.38	22.31			
5	16QAM	1	12	22.30	22.26	22.23			
5	16QAM	1	24	22.22	22.23	22.17	22	2	
5	16QAM	12	0	21.31	21.28	21.23			
5	16QAM	12	7	21.16	21.24	21.23			
5	16QAM	12	13	21.17	21.23	21.21	22	2	
5	16QAM	25	0	21.11	21.22	21.23			
5	64QAM	1	0	21.24	21.29	21.19			
5	64QAM	1	12	21.28	21.41	21.35	22	2	
5	64QAM	1	24	21.31	21.34	21.24			
5	64QAM	12	0	20.37	20.34	20.38			
5	64QAM	12	7	20.25	20.40	20.35	21	3	
5	64QAM	12	13	20.36	20.38	20.35			
5	64QAM	25	0	20.29	20.32	20.32			
Channel				26065	26340	26675	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	23.22	23.23	23.14	24	0	
3	QPSK	1	8	23.08	23.22	23.13			
3	QPSK	1	14	22.92	23.13	23.09			
3	QPSK	8	0	22.19	22.21	22.13	23	1	
3	QPSK	8	7	22.10	22.25	22.09			
3	QPSK	8	7	22.09	22.19	22.22			
3	QPSK	15	0	22.14	22.25	22.21	23	1	
3	16QAM	1	0	22.35	22.39	22.31			
3	16QAM	1	8	22.26	22.28	22.30			
3	16QAM	1	14	22.28	22.23	22.24	22	2	
3	16QAM	8	0	21.28	21.33	21.12			
3	16QAM	8	4	21.10	21.29	21.17			
3	16QAM	8	15	21.15	21.21	21.24	21	3	
3	16QAM	15	0	21.18	21.24	21.12			
3	64QAM	1	0	21.35	21.24	21.37			
3	64QAM	1	8	21.25	21.36	21.23	22	2	
3	64QAM	1	14	21.31	21.42	21.38			
3	64QAM	8	0	20.27	20.26	20.30			
3	64QAM	8	4	20.31	20.23	20.38	21	3	
3	64QAM	8	7	20.30	20.30	20.37			
3	64QAM	15	0	20.23	20.33	20.37			
Channel				26042	26340	26683	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1914.3			
1.4	QPSK	1	0	23.18	23.31	23.17	24	0	
1.4	QPSK	1	3	23.02	23.16	23.11			
1.4	QPSK	1	5	23.03	23.09	23.01			
1.4	QPSK	3	0	23.20	23.34	23.14	23	1	
1.4	QPSK	3	1	22.98	23.11	23.07			
1.4	QPSK	3	3	23.03	23.09	23.03			
1.4	QPSK	6	0	22.14	22.22	22.18	23	1	
1.4	16QAM	1	0	22.14	22.26	22.15			
1.4	16QAM	1	3	22.09	22.16	22.18			
1.4	16QAM	1	5	22.17	22.25	22.13	23	1	
1.4	16QAM	3	0	22.28	22.37	22.40			
1.4	16QAM	3	1	22.23	22.27	22.22			
1.4	16QAM	3	3	22.24	22.18	22.22	22	2	
1.4	16QAM	6	0	21.34	21.29	21.22			
1.4	16QAM	6	1	21.17	21.27	21.32			
1.4	64QAM	1	3	21.29	21.26	21.24	22	2	
1.4	64QAM	1	5	21.36	21.40	21.38			
1.4	64QAM	1	7	21.32	21.38	21.18			
1.4	64QAM	3	1	21.29	21.23	21.38	21	3	
1.4	64QAM	3	3	21.37	21.43	21.30			
1.4	64QAM	6	0	20.14	20.42	20.19			

Band 66 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				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	23.59	23.63	23.52	24	0	
20	QPSK	1	49	23.43	23.58	23.50			
20	QPSK	1	99	23.41	23.53	23.44			
20	QPSK	50	0	22.55	22.62	22.48			
20	QPSK	50	24	22.39	22.53	22.38	23	1	
20	QPSK	50	50	22.52	22.51	22.49			
20	QPSK	100	0	22.52	22.65	22.57			
20	16QAM	1	0	22.60	22.56	22.55			
20	16QAM	1	49	22.55	22.56	22.53	23	1	
20	16QAM	1	99	22.58	22.65	22.57			
20	16QAM	50	0	21.50	21.84	21.52			
20	16QAM	50	24	21.48	21.50	21.49			
20	16QAM	50	50	21.45	21.57	21.48	22	2	
20	16QAM	100	0	21.49	21.53	21.53			
20	64QAM	1	0	21.51	21.71	21.49			
20	64QAM	1	49	21.54	21.58	21.57			
20	64QAM	1	99	21.59	21.59	21.51	22	2	
20	64QAM	36	20	20.97	20.95	20.83			
20	64QAM	50	0	20.57	20.55	20.60			
20	64QAM	50	24	20.50	20.53	20.63			
20	64QAM	50	50	20.49	20.68	20.42	21	3	
20	64QAM	100	0	20.47	20.75	20.42			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.47	23.56	23.42	24	0	
15	QPSK	1	37	23.32	23.47	23.38			
15	QPSK	1	74	23.35	23.44	23.31			
15	QPSK	36	0	22.42	22.52	22.44			
15	QPSK	36	20	22.26	22.45	22.35	23	1	
15	QPSK	36	39	22.43	22.45	22.46			
15	QPSK	75	0	22.44	22.54	22.51			
15	16QAM	1	0	22.47	22.48	22.42			
15	16QAM	1	37	22.49	22.43	22.47	23	1	
15	16QAM	1	74	22.47	22.55	22.51			
15	16QAM	36	0	21.41	21.59	21.47			
15	16QAM	36	20	21.34	21.38	21.41			
15	16QAM	36	39	21.36	21.44	21.45	22	2	
15	16QAM	75	0	21.42	21.38	21.44			
15	64QAM	1	0	21.55	21.80	21.48			
15	64QAM	1	37	21.62	21.72	21.44			
15	64QAM	1	74	21.58	21.56	21.46	22	2	
15	64QAM	36	0	20.49	20.55	20.41			
15	64QAM	36	20	20.64	20.75	20.54			
15	64QAM	36	39	20.68	20.71	20.63			
15	64QAM	75	0	20.63	20.55	20.53	21	3	
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.45	23.54	23.42	24	0	
10	QPSK	1	25	23.40	23.44	23.39			
10	QPSK	1	49	23.26	23.47	23.31			
10	QPSK	25	0	22.46	22.57	22.42			
10	QPSK	25	12	22.30	22.46	22.33	23	1	
10	QPSK	25	25	22.45	22.45	22.37			
10	QPSK	50	0	22.39	22.61	22.51			
10	16QAM	1	0	22.50	22.48	22.50			
10	16QAM	1	25	22.52	22.52	22.46	23	1	
10	16QAM	1	49	22.48	22.57	22.44			
10	16QAM	25	0	21.42	21.52	21.41			
10	16QAM	25	12	21.36	21.36	21.35			
10	16QAM	25	25	21.37	21.51	21.37	22	2	
10	16QAM	50	0	21.34	21.42	21.39			
10	64QAM	1	0	21.48	21.59	21.48			
10	64QAM	1	25	21.50	21.56	21.52			
10	64QAM	1	49	21.58	21.64	21.45	22	2	
10	64QAM	25	0	20.66	20.70	20.45			
10	64QAM	25	12	20.65	20.54	20.49			
10	64QAM	25	25	20.57	20.55	20.56			
10	64QAM	50	0	20.65	20.59	20.61	21	3	
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.48	23.59	23.43	24	0	
5	QPSK	1	12	23.35	23.43	23.41			
5	QPSK	1	24	23.35	23.44	23.41			
5	QPSK	12	0	22.46	22.49	22.42			
5	QPSK	12	7	22.32	22.39	22.32	23	1	
5	QPSK	12	13	22.39	22.43	22.41			
5	QPSK	25	0	22.38	22.51	22.47			
5	16QAM	1	0	22.49	22.52	22.49			
5	16QAM	1	12	22.46	22.52	22.48	23	1	
5	16QAM	1	24	22.54	22.60	22.47			
5	16QAM	12	0	21.44	21.50	21.39			
5	16QAM	12	7	21.41	21.46	21.42			
5	16QAM	12	13	21.42	21.46	21.33	22	2	
5	16QAM	25	0	21.34	21.50	21.47			
5	64QAM	1	0	21.68	21.58	21.52			
5	64QAM	1	12	21.69	21.66	21.63			
5	64QAM	1	24	21.63	21.55	21.49	22	2	
5	64QAM	12	0	20.57	20.74	20.64			
5	64QAM	12	7	20.59	20.67	20.58			
5	64QAM	12	13	20.54	20.68	20.56			
5	64QAM	25	0	20.54	20.66	20.61	21	3	
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	23.49	23.53	23.41	24	0	
3	QPSK	1	8	23.36	23.51	23.44			
3	QPSK	1	14	23.29	23.42	23.30			
3	QPSK	8	0	22.46	22.43	22.39			
3	QPSK	8	4	22.33	22.43	22.32	23	1	
3	QPSK	8	7	22.46	22.39	22.34			
3	QPSK	15	0	22.39	22.53	22.44			
3	16QAM	1	0	22.45	22.44	22.47			
3	16QAM	1	8	22.51	22.44	22.38	23	1	
3	16QAM	1	14	22.55	22.61	22.46			
3	16QAM	8	0	21.40	21.60	21.39			
3	16QAM	8	4	21.41	21.43	21.34			
3	16QAM	8	7	21.40	21.44	21.39	22	2	
3	16QAM	15	0	21.44	21.41	21.50			
3	64QAM	1	0	21.57	21.57	21.53			
3	64QAM	1	8	21.53	21.52	21.45			
3	64QAM	1	14	21.63	21.57	21.42	22	2	
3	64QAM	8	0	20.69	20.54	20.43			
3	64QAM	8	4	20.54	20.54	20.51			
3	64QAM	8	7	20.48	20.53	20.59			
3	64QAM	15	0	20.61	20.66	20.55	21	3	
Channel				131979	132322	132665			
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	23.47	23.56	23.44	24	0	
1.4	QPSK	1	3	23.34	23.53	23.41			
1.4	QPSK	1	5	23.32	23.44	23.31			
1.4	QPSK	3	0	23.45	23.51	23.39			
1.4	QPSK	3	1	23.36	23.48	23.43	23	1	
1.4	QPSK	3	3	23.28	23.41	23.29			
1.4	QPSK	6	0	22.40	22.54	22.43			
1.4	16QAM	1	0	22.25	22.44	22.33			
1.4	16QAM	1	3	22.40	22.37	22.46	23	1	
1.4	16QAM	1	5	22.49	22.61	22.47			
1.4	16QAM	3	0	22.49	22.49	22.43			
1.4	16QAM	3	1	22.48	22.52	22.45	22	2	
1.4	16QAM	3	3	22.43	22.56	22.45			
1.4	16QAM	6	0	21.38	21.53	21.43			
1.4	64QAM	1	0	21.66	21.69	21.58			
1.4	64QAM	1	3	21.64	21.68	21.41	22	2	
1.4	64QAM	1	5	21.58	21.75	21.44			
1.4	64QAM	3	0	21.66	21.68	21.50			
1.4	64QAM	3	1	21.67	21.53	21.47			
1.4	64QAM	3	3	21.62	21.72	21.41	21	3	
1.4	64QAM	6	0	20.55	20.70	20.63			

Band 38 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				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.71	23.87	23.77	24	0	
20	QPSK	1	49	23.59	23.77	23.78			
20	QPSK	1	99	23.56	23.70	23.69			
20	QPSK	50	0	22.82	22.91	22.71			
20	QPSK	50	24	22.72	22.82	22.71	23	1	
20	QPSK	50	50	22.73	22.83	22.77			
20	QPSK	100	0	22.70	22.82	22.73			
20	16QAM	1	0	22.87	22.91	22.91			
20	16QAM	1	49	22.79	22.90	22.81	23	1	
20	16QAM	1	99	22.82	22.83	22.83			
20	16QAM	50	0	21.82	21.86	21.75			
20	16QAM	50	24	21.68	21.80	21.77			
20	16QAM	50	50	21.71	21.84	21.85	22	2	
20	16QAM	100	0	21.74	21.85	21.72			
20	64QAM	1	0	21.71	21.96	21.67			
20	64QAM	1	49	21.79	21.98	21.79			
20	64QAM	1	99	21.60	21.90	21.81	22	2	
20	64QAM	50	0	20.72	20.77	20.78			
20	64QAM	50	24	20.68	20.88	20.69			
20	64QAM	50	50	20.75	20.89	20.85			
20	64QAM	100	0	20.71	20.93	20.72	21	3	
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.62	23.73	23.68			
15	QPSK	1	37	23.52	23.66	23.71	24	0	
15	QPSK	1	74	23.52	23.62	23.65			
15	QPSK	36	0	22.70	22.86	22.63			
15	QPSK	36	20	22.61	22.67	22.64			
15	QPSK	36	39	22.69	22.70	22.68	23	1	
15	QPSK	75	0	22.64	22.78	22.69			
15	16QAM	1	0	22.76	22.79	22.77			
15	16QAM	1	37	22.74	22.76	22.67			
15	16QAM	1	74	22.73	22.75	22.75	23	1	
15	16QAM	36	0	21.76	21.77	21.67			
15	16QAM	36	20	21.60	21.71	21.70			
15	16QAM	36	39	21.59	21.75	21.79			
15	16QAM	75	0	21.64	21.79	21.63	22	2	
15	16QAM	1	0	21.72	21.79	21.79			
15	64QAM	1	37	21.67	21.81	21.87			
15	64QAM	1	74	21.74	21.98	21.72			
15	64QAM	36	0	20.81	20.88	20.86	21	3	
15	64QAM	36	20	20.63	20.92	20.66			
15	64QAM	36	39	20.77	20.76	20.76			
15	64QAM	75	0	20.76	20.85	20.72			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.64	23.77	23.69			
10	QPSK	1	25	23.50	23.73	23.73	24	0	
10	QPSK	1	49	23.44	23.61	23.63			
10	QPSK	25	0	22.77	22.86	22.60			
10	QPSK	25	12	22.62	22.76	22.61			
10	QPSK	25	25	22.64	22.74	22.72	23	1	
10	QPSK	50	0	22.57	22.76	22.67			
10	16QAM	1	0	22.81	22.87	22.80			
10	16QAM	1	25	22.70	22.83	22.66			
10	16QAM	1	49	22.72	22.73	22.69	22	2	
10	16QAM	25	0	21.79	21.72	21.64			
10	16QAM	25	12	21.64	21.71	21.70			
10	16QAM	25	25	21.61	21.73	21.78			
10	16QAM	50	0	21.60	21.80	21.65	22	2	
10	64QAM	1	0	21.65	21.97	21.76			
10	64QAM	1	25	21.71	21.95	21.76			
10	64QAM	1	49	21.82	21.77	21.71			
10	64QAM	25	0	20.63	20.78	20.85	21	3	
10	64QAM	25	12	20.70	20.92	20.87			
10	64QAM	25	25	20.70	20.82	20.80			
10	64QAM	50	0	20.78	20.87	20.73			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.67	23.81	23.73			
5	QPSK	1	12	23.51	23.71	23.64	24	0	
5	QPSK	1	24	23.46	23.67	23.60			
5	QPSK	12	0	22.78	22.85	22.67			
5	QPSK	12	7	22.69	22.79	22.68			
5	QPSK	12	13	22.58	22.71	22.67	23	1	
5	QPSK	25	0	22.57	22.68	22.60			
5	16QAM	1	0	22.79	22.85	22.83			
5	16QAM	1	12	22.76	22.84	22.76			
5	16QAM	1	24	22.76	22.77	22.76	22	2	
5	16QAM	12	0	21.74	21.72	21.66			
5	16QAM	12	7	21.58	21.71	21.72			
5	16QAM	12	13	21.65	21.76	21.80			
5	16QAM	25	0	21.60	21.80	21.68	22	2	
5	64QAM	1	0	21.73	21.96	21.82			
5	64QAM	1	12	21.75	21.94	21.84			
5	64QAM	1	24	21.80	21.95	21.85			
5	64QAM	12	0	20.73	20.95	20.81	21	3	
5	64QAM	12	7	20.67	20.89	20.85			
5	64QAM	12	13	20.80	20.90	20.78			
5	64QAM	25	0	20.80	20.97	20.67			

Band 41 HPUE Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.14	25.23	25.33	25.31	25.14	26	0
20	QPSK	1	49	25.01	25.20	25.27	25.22	25.02		
20	QPSK	1	99	24.98	25.13	25.23	25.23	25.08		
20	QPSK	50	0	24.10	24.36	24.43	24.27	24.17		
20	QPSK	50	24	24.05	24.20	24.30	24.28	24.14	25	1
20	QPSK	50	50	24.06	24.29	24.30	24.19	24.25		
20	QPSK	100	0	24.11	24.31	24.26	24.24	24.23		
20	16QAM	1	0	24.20	24.40	24.44	24.34	24.21		
20	16QAM	1	49	24.09	24.27	24.46	24.41	24.22	25	1
20	16QAM	1	99	24.14	24.26	24.35	24.23	24.24		
20	16QAM	50	0	23.13	23.30	23.41	23.43	23.25		
20	16QAM	50	24	23.15	23.22	23.28	23.21	23.16		
20	16QAM	50	50	23.22	23.34	23.40	23.34	23.16	24	2
20	16QAM	100	0	23.00	23.20	23.38	23.33	22.97		
20	64QAM	1	0	23.16	23.21	23.41	23.22	23.09		
20	64QAM	1	49	23.24	23.35	23.38	23.29	23.11		
20	64QAM	1	99	23.18	23.26	23.28	23.36	23.26	24	2
20	64QAM	50	0	22.15	22.28	22.37	22.33	22.20		
20	64QAM	50	24	22.09	22.14	22.42	22.31	22.10	23	3
20	64QAM	50	50	22.24	22.35	22.22	22.38	22.23		
20	64QAM	100	0	22.11	22.13	22.35	22.38	22.14		
20	256QAM	1	0	20.74	20.63	20.74	20.62	20.57		
20	256QAM	1	49	20.67	20.77	20.73	20.66	20.73	21	5
20	256QAM	1	99	20.61	20.52	20.56	20.53	20.66		
20	256QAM	50	0	20.52	20.49	20.52	20.60	20.49		
20	256QAM	50	24	20.42	20.46	20.38	20.42	20.45		
20	256QAM	50	50	20.54	20.64	20.54	20.69	20.71	21	5
20	256QAM	100	0	20.60	20.46	20.65	20.49	20.47		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.10	25.13	25.19	25.19	25.04	26.00	0
15	QPSK	1	37	24.94	25.11	25.12	25.17	24.92		
15	QPSK	1	74	24.91	25.02	25.20	25.09	25.01		
15	QPSK	36	0	24.05	24.27	24.36	24.14	24.04		
15	QPSK	36	20	23.91	24.09	24.18	24.14	24.04	25	1
15	QPSK	36	39	23.91	24.21	24.21	24.05	24.15		
15	QPSK	75	0	24.05	24.20	24.18	24.11	24.15		
15	16QAM	1	0	24.08	24.33	24.32	24.19	24.18		
15	16QAM	1	37	24.03	24.13	24.38	24.27	24.19	25	1
15	16QAM	1	74	24.04	24.12	24.22	24.12	24.19		
15	16QAM	36	0	23.03	23.19	23.27	23.33	23.18		
15	16QAM	36	20	23.02	23.16	23.13	23.10	23.02		
15	16QAM	36	39	23.15	23.30	23.31	23.29	23.10	24	2
15	16QAM	75	0	22.93	23.10	23.27	23.25	22.82		
15	64QAM	1	0	23.13	23.30	23.23	23.38	23.08		
15	64QAM	1	37	23.05	23.34	23.34	23.22	23.09		
15	64QAM	1	74	23.18	23.17	23.23	23.40	23.18	24	2
15	64QAM	36	0	22.21	22.24	22.28	22.38	22.17		
15	64QAM	36	20	22.11	22.26	22.24	22.32	22.06		
15	64QAM	36	39	22.19	22.26	22.21	22.27	22.18		
15	64QAM	75	0	22.04	22.16	22.45	22.36	22.14	23	3
15	256QAM	1	0	20.55	20.66	20.65	20.59	20.70		
15	256QAM	1	37	20.78	20.67	20.69	20.70	20.65		
15	256QAM	1	74	20.46	20.61	20.61	20.64	20.58		
15	256QAM	36	0	20.69	20.65	20.56	20.60	20.56	21	5
15	256QAM	36	20	20.40	20.36	20.48	20.44	20.45		
15	256QAM	36	39	20.53	20.68	20.65	20.60	20.72		
15	256QAM	75	0	20.58	20.50	20.67	20.52	20.61		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.04	25.12	25.18	25.28	24.99	26.00	0
10	QPSK	1	25	24.89	25.14	25.20	25.12	24.88		
10	QPSK	1	49	24.92	25.00	25.16	25.09	25.00		
10	QPSK	25	0	24.06	24.24	24.29	24.23	24.08		
10	QPSK	25	12	23.98	24.09	24.26	24.14	24.04	25	1
10	QPSK	25	25	23.96	24.20	24.21	24.09	24.11		
10	QPSK	50	0	24.01	24.18	24.22	24.12	24.15		
10	16QAM	1	0	24.16	24.27	24.31	24.27	24.09		
10	16QAM	1	25	24.03	24.14	24.33	24.31	24.07	25	1
10	16QAM	1	49	24.10	24.20	24.24	24.20	24.15		
10	16QAM	25	0	23.00	23.20	23.28	23.35	23.21		
10	16QAM	25	12	23.05	23.13	23.21	23.12	23.10		
10	16QAM	25	25	23.07	23.24	23.27	23.30	23.08	24	2
10	16QAM	50	0	22.92	23.15	23.28	23.21	22.82		
10	64QAM	1	0	23.07	23.30	23.30	23.41	23.15		
10	64QAM	1	25	23.21	23.24	23.30	23.27	23.09		
10	64QAM	1	49	23.08	23.22	23.45	23.31	23.13	24	2
10	64QAM	25	0	22.20	22.18	22.42	22.19	22.14		
10	64QAM	25	12	22.04	22.22	22.22	22.38	22.23		
10	64QAM	25	25	22.06	22.33	22.33	22.24	22.14		
10	64QAM	50	0	22.06	22.24	22.43	22.42	22.21	23	3
10	256QAM	1	0	20.65	20.70	20.57	20.61	20.73		
10	256QAM	1	25	20.83	20.79	20.77	20.72	20.69		
10	256QAM	1	49	20.54	20.61	20.56	20.52	20.57		
10	256QAM	25	0	20.50	20.54	20.49	20.51	20.51	21	5
10	256QAM	25	12	20.56	20.35	20.39	20.35	20.45		
10	256QAM	25	25	20.66	20.71	20.63	20.57	20.59		
10	256QAM	50	0	20.51	20.49	20.53	20.65	20.63		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2493.5	2545.5	2593	2640.5	2687.5		
5	QPSK	1	0	25.01	25.19	25.28	25.25	25.09	26.00	0
5	QPSK	1	12	24.91	25.12	25.15	25.08	24.92		
5	QPSK	1	24	24.90	25.05	25.11	25.09	24.99		
5	QPSK	12	0	24.00	24.25	24.29	24.19	24.09		
5	QPSK	12	7	23.91	24.07	24.16	24.16	24.10	25	1
5	QPSK	12	13	23.99	24.15	24.24	24.15	24.15		
5	QPSK	25	0	23.98	24.24	24.18	24.14	24.15		
5	16QAM	1	0	24.06	24.35	24.31	24.25	24.15		
5	16QAM	1	12	24.04	24.20	24.32	24.37	24.17	25	1
5	16QAM	1	24	24.05	24.14	24.27	24.15	24.14		
5	16QAM	12	0	23.06	23.24	23.30	23.30	23.20		
5	16QAM	12	7	23.12	23.17	23.15	23.17	23.05		
5	16QAM	12	13	23.13	23.22	23.33	23.27	23.09	24	2
5	16QAM	25	0	22.96	23.08	23.29	23.24	22.92		
5	64QAM	1	0	23.19	23.13	23.23	23.25	23.22		
5	64QAM	1	12	23.10	23.16	23.29	23.36	23.16		
5	64QAM	1	24	23.16	23.24	23.22	23.42	23.07	24	2
5	64QAM	12	0	22.22	22.21	22.23	22.33	22.10		
5	64QAM	12	7	22.13	22.18	22.32	22.31	22.06		
5	64QAM	12	13	22.23	22.12	22.31	22.39	22.07		
5	64QAM	25	0	22.12	22.16	22.25	22.35	22.05	23	3
5	256QAM	1	0	20.60	20.58	20.66	20.72	20.74		
5	256QAM	1	12	20.81	20.78	20.64	20.72	20.66		
5	256QAM	1	24	20.62	20.54	20.48	20.55	20.56		
5	256QAM	12	0	20.49	20.64	20.56	20.50	20.58	21	5
5	256QAM	12	7	20.41	20.55	20.54	20.52	20.41		
5	256QAM	12	13	20.65	20.53	20.60	20.59	20.63		
5	256QAM	25	0	20.50	20.53	20.54	20.52	20.65		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	24.08	24.14	24.01	24.08	25	0
20	QPSK	1	49	24.05	24.08	23.81	24.00		
20	QPSK	1	99	23.99	24.00	23.94	24.07		
20	QPSK	50	0	23.13	23.29	23.00	23.05		
20	QPSK	50	24	23.04	23.14	22.93	23.13	24	1
20	QPSK	50	50	23.11	23.16	23.03	22.98		
20	QPSK	100	0	23.13	23.08	23.00	23.05		
20	16QAM	1	0	23.21	23.27	23.05	23.20		
20	16QAM	1	49	23.11	23.23	23.00	23.28	24	1
20	16QAM	1	99	23.03	23.21	23.05	23.09		
20	16QAM	50	0	22.15	22.20	22.04	22.22		
20	16QAM	50	24	22.02	22.14	21.94	22.07		
20	16QAM	50	50	22.13	22.26	21.96	22.14	23	2
20	16QAM	100	0	22.05	22.22	21.79	22.11		
20	64QAM	1	0	22.12	22.19	22.00	22.11		
20	64QAM	1	49	22.09	22.26	22.04	22.15		
20	64QAM	1	99	22.14	22.11	21.97	22.04	22	3
20	64QAM	50	0	21.15	21.21	21.10	20.98		
20	64QAM	50	24	21.11	21.25	20.98	21.03		
20	64QAM	50	50	21.11	21.24	20.95	21.13		
20	64QAM	100	0	20.99	21.08	20.99	21.00	Tune-up limit (dBm)	MPR (dB)
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	24.02	23.98	23.97	24.09		
15	QPSK	1	37	24.00	24.05	23.76	23.95	25	0
15	QPSK	1	74	23.86	23.88	23.83	23.97		
15	QPSK	36	0	23.10	23.17	22.94	22.92		
15	QPSK	36	20	22.90	23.04	22.81	23.06		
15	QPSK	36	39	23.02	23.10	22.93	22.89	24	1
15	QPSK	75	0	23.09	22.96	22.86	22.94		
15	16QAM	1	0	23.10	23.17	22.99	23.08		
15	16QAM	1	37	22.97	23.14	22.92	23.24		
15	16QAM	1	74	22.96	23.17	22.95	22.95	23	2
15	16QAM	36	0	22.10	22.11	21.96	22.12		
15	16QAM	36	20	21.97	22.01	21.89	21.95		
15	16QAM	36	39	22.06	22.21	21.89	22.05		
15	16QAM	75	0	21.95	22.18	21.70	22.07	23	2
15	64QAM	1	0	22.15	22.13	22.04	22.04		
15	64QAM	1	37	22.11	22.04	21.90	22.11		
15	64QAM	1	74	22.09	22.08	22.01	22.02		
15	64QAM	36	0	21.14	21.02	20.90	21.12	22	3
15	64QAM	36	20	21.11	21.18	20.95	21.12		
15	64QAM	36	39	21.13	21.10	20.99	20.98		
15	64QAM	75	0	21.17	21.02	21.04	21.17		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	24.02	23.99	23.88	24.05	25	0
10	QPSK	1	25	24.01	24.00	23.76	23.90		
10	QPSK	1	49	23.95	23.97	23.83	23.99		
10	QPSK	25	0	22.99	23.14	22.88	22.98		
10	QPSK	25	12	22.95	23.09	22.87	23.00	24	1
10	QPSK	25	25	23.02	23.09	22.92	22.86		
10	QPSK	50	0	23.01	22.98	22.94	22.92		
10	16QAM	1	0	23.09	23.17	22.97	23.08		
10	16QAM	1	25	23.02	23.15	22.91	23.18	24	1
10	16QAM	1	49	22.97	23.10	23.01	22.99		
10	16QAM	25	0	22.08	22.13	21.97	22.08		
10	16QAM	25	12	21.97	22.08	21.85	21.95		
10	16QAM	25	25	21.98	22.12	21.89	22.04	23	2
10	16QAM	50	0	21.96	22.15	21.70	22.06		
10	64QAM	1	0	22.17	22.03	22.02	22.10		
10	64QAM	1	25	22.19	22.08	22.13	22.03		
10	64QAM	1	49	22.07	22.08	21.89	22.13	23	2
10	64QAM	25	0	21.14	21.24	21.05	21.11		
10	64QAM	25	12	21.00	21.10	20.93	21.15		
10	64QAM	25	25	21.16	21.07	21.05	21.18		
10	64QAM	50	0	21.15	21.05	21.00	21.19	Tune-up limit (dBm)	MPR (dB)
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	23.94	24.02	23.98	24.11		
5	QPSK	1	12	23.92	23.96	23.71	23.93	25	0
5	QPSK	1	24	23.93	23.90	23.80	23.95		
5	QPSK	12	0	23.06	23.21	22.95	22.95		
5	QPSK	12	7	22.93	23.05	22.84	23.08		
5	QPSK	12	13	23.02	23.08	23.00	22.84	24	1
5	QPSK	25	0	23.00	22.98	22.92	23.01		
5	16QAM	1	0	23.08	23.14	22.95	23.11		
5	16QAM	1	12	23.07	23.16	22.88	23.14		
5	16QAM	1	24	22.88	23.14	23.01	22.95	23	2
5	16QAM	12	0	22.04	22.16	21.89	22.14		
5	16QAM	12	7	21.93	22.02	21.90	21.94		
5	16QAM	12	13	22.01	22.18	21.93	22.05		
5	16QAM	25	0	21.95	22.13	21.65	21.98	23	2
5	64QAM	1	0	22.06	22.06	22.06	22.17		
5	64QAM	1	12	21.98	22.14	22.06	22.00		
5	64QAM	1	24	22.06	22.04	21.92	22.19		
5	64QAM	12	0	21.13	21.22	21.07	21.05	22	3
5	64QAM	12	7	21.14	21.08	21.06	21.02		
5	64QAM	12	13	20.99	21.12	21.03	20.97		
5	64QAM	25	0	21.11	21.16	20.92	21.07		

Band 2 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				18700	18900	19100			
Frequency (MHz)									
20	QPSK	1	0	23.37	23.54	23.52	24	0	
20	QPSK	1	49	23.30	23.49	23.48			
20	QPSK	1	99	23.33	23.37	23.35			
20	QPSK	50	0	22.47	22.55	22.48	23	1	
20	QPSK	50	24	22.44	22.59	22.35			
20	QPSK	50	50	22.47	22.45	22.41			
20	QPSK	100	0	22.48	22.56	22.42	23	1	
20	16QAM	1	0	22.51	22.62	22.59			
20	16QAM	1	49	22.48	22.55	22.52			
20	16QAM	1	99	22.43	22.50	22.51	22	2	
20	16QAM	50	0	21.55	21.57	21.48			
20	16QAM	50	24	21.42	21.49	21.50			
20	16QAM	50	50	21.44	21.59	21.50	22	2	
20	16QAM	100	0	21.36	21.52	21.44			
20	64QAM	1	0	21.28	21.65	21.61			
20	64QAM	1	49	21.39	21.56	21.57	22	2	
20	64QAM	1	99	21.46	21.47	21.43			
20	64QAM	50	0	20.32	20.54	20.51			
20	64QAM	50	24	20.38	20.42	20.43	21	3	
20	64QAM	50	50	20.31	20.43	20.48			
20	64QAM	100	0	20.31	20.46	20.51			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	0	23.29	23.46	23.47	24	0	
15	QPSK	1	37	23.25	23.35	23.45			
15	QPSK	1	74	23.28	23.26	23.30			
15	QPSK	36	0	22.40	22.42	22.45	23	1	
15	QPSK	36	20	22.41	22.49	22.21			
15	QPSK	36	39	22.39	22.35	22.37			
15	QPSK	75	0	22.44	22.42	22.32	23	1	
15	16QAM	1	0	22.44	22.51	22.47			
15	16QAM	1	37	22.45	22.44	22.43			
15	16QAM	1	74	22.33	22.37	22.48	22	2	
15	16QAM	36	0	21.49	21.47	21.38			
15	16QAM	36	20	21.34	21.41	21.36			
15	16QAM	36	39	21.31	21.50	21.38	22	2	
15	16QAM	75	0	21.27	21.45	21.34			
15	64QAM	1	0	21.40	21.66	21.60			
15	64QAM	1	37	21.32	21.56	21.61	22	2	
15	64QAM	1	74	21.40	21.49	21.55			
15	64QAM	36	0	20.42	20.56	20.58			
15	64QAM	36	20	20.38	20.62	20.61	21	3	
15	64QAM	36	39	20.44	20.57	20.62			
15	64QAM	75	0	20.42	20.66	20.54			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	0	23.28	23.51	23.41	24	0	
10	QPSK	1	25	23.21	23.40	23.43			
10	QPSK	1	49	23.18	23.31	23.24			
10	QPSK	25	0	22.41	22.50	22.36	23	1	
10	QPSK	25	12	22.31	22.52	22.31			
10	QPSK	25	25	22.35	22.36	22.27			
10	QPSK	50	0	22.37	22.48	22.35	23	1	
10	16QAM	1	0	22.44	22.53	22.45			
10	16QAM	1	25	22.39	22.48	22.43			
10	16QAM	1	49	22.28	22.46	22.42	22	2	
10	16QAM	25	0	21.41	21.51	21.44			
10	16QAM	25	12	21.27	21.44	21.46			
10	16QAM	25	25	21.35	21.56	21.44	22	2	
10	16QAM	50	0	21.28	21.38	21.31			
10	64QAM	1	0	21.40	21.63	21.54			
10	64QAM	1	25	21.38	21.51	21.41	22	2	
10	64QAM	1	49	21.36	21.44	21.49			
10	64QAM	25	0	20.46	20.59	20.45			
10	64QAM	25	12	20.37	20.64	20.60	21	3	
10	64QAM	25	25	20.35	20.55	20.43			
10	64QAM	50	0	20.42	20.54	20.63			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	0	23.29	23.46	23.47	24	0	
5	QPSK	1	12	23.23	23.37	23.39			
5	QPSK	1	24	23.20	23.24	23.22			
5	QPSK	12	0	22.44	22.41	22.34	23	1	
5	QPSK	12	7	22.40	22.44	22.25			
5	QPSK	12	13	22.43	22.36	22.31			
5	QPSK	25	0	22.43	22.50	22.36	23	1	
5	16QAM	1	0	22.40	22.49	22.48			
5	16QAM	1	12	22.45	22.51	22.38			
5	16QAM	1	24	22.33	22.47	22.47	22	2	
5	16QAM	12	0	21.44	21.50	21.35			
5	16QAM	12	7	21.32	21.42	21.40			
5	16QAM	12	13	21.34	21.47	21.45	22	2	
5	16QAM	25	0	21.31	21.41	21.38			
5	64QAM	1	0	21.28	21.43	21.53			
5	64QAM	1	12	21.48	21.44	21.63	22	2	
5	64QAM	1	24	21.37	21.43	21.42			
5	64QAM	12	0	20.29	20.57	20.57			
5	64QAM	12	7	20.44	20.61	20.41	21	3	
5	64QAM	12	13	20.35	20.46	20.40			
5	64QAM	25	0	20.29	20.57	20.46			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
3	QPSK	1	0	23.28	23.48	23.45	24	0	
3	QPSK	1	8	23.25	23.44	23.36			
3	QPSK	1	14	23.28	23.32	23.26			
3	QPSK	8	0	22.34	22.44	22.40	23	1	
3	QPSK	8	4	22.31	22.45	22.22			
3	QPSK	8	7	22.42	22.39	22.28			
3	QPSK	15	0	22.34	22.47	22.28	23	1	
3	16QAM	1	0	22.38	22.48	22.50			
3	16QAM	1	8	22.43	22.41	22.46			
3	16QAM	1	14	22.32	22.39	22.43	22	2	
3	16QAM	8	0	21.42	21.52	21.44			
3	16QAM	8	4	21.34	21.35	21.45			
3	16QAM	8	7	21.31	21.45	21.37	22	2	
3	16QAM	15	0	21.25	21.46	21.36			
3	64QAM	1	0	21.35	21.65	21.64			
3	64QAM	1	8	21.40	21.63	21.63	22	2	
3	64QAM	1	14	21.30	21.56	21.61			
3	64QAM	8	0	20.32	20.45	20.51			
3	64QAM	8	4	20.41	20.64	20.57	21	3	
3	64QAM	8	7	20.41	20.43	20.48			
3	64QAM	15	0	20.40	20.58	20.56			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
1.4	QPSK	1	0	23.33	23.54	23.41	24	0	
1.4	QPSK	1	3	23.19	23.35	23.43			
1.4	QPSK	1	5	23.25	23.29	23.29			
1.4	QPSK	3	0	23.24	23.42	23.38	23	1	
1.4	QPSK	3	1	23.24	23.45	23.42			
1.4	QPSK	3	3	23.28	23.24	23.28			
1.4	QPSK	6	0	22.37	22.45	22.42	23	1	
1.4	16QAM	1	0	22.34	22.48	22.24			
1.4	16QAM	1	3	22.29	22.31	22.30			
1.4	16QAM	1	5	22.44	22.52	22.33	23	1	
1.4	16QAM	3	0	22.43	22.50	22.52			
1.4	16QAM	3	1	22.44	22.42	22.43			

Band 30 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				27710			25	0
Frequency (MHz)				2310				
10	QPSK	1	0		24.11		24	1
10	QPSK	1	25		23.98			
10	QPSK	1	49		23.91			
10	QPSK	25	0		23.13		24	1
10	QPSK	25	12		23.01			
10	QPSK	25	25		22.95			
10	QPSK	50	0		23.01		24	1
10	16QAM	1	0		23.15			
10	16QAM	1	25		23.12			
10	16QAM	1	49		23.01		23	2
10	16QAM	25	0		22.12			
10	16QAM	25	12		22.00			
10	16QAM	25	25		22.08		23	2
10	16QAM	50	0		21.96			
10	64QAM	1	0		22.07			
10	64QAM	1	25		22.20		23	2
10	64QAM	1	49		22.09			
10	64QAM	25	0		21.22			
10	64QAM	25	12		21.23		22	3
10	64QAM	25	25		21.06			
10	64QAM	50	0		21.21			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	24.04	24.06	24.00	25	0
5	QPSK	1	12	23.90	23.83	23.94		
5	QPSK	1	24	23.88	23.79	23.77		
5	QPSK	12	0	23.06	23.00	22.99	24	1
5	QPSK	12	7	22.89	22.90	22.91		
5	QPSK	12	13	22.90	22.81	22.87		
5	QPSK	25	0	22.93	22.97	22.88	24	1
5	16QAM	1	0	23.04	23.07	23.10		
5	16QAM	1	12	23.01	23.07	23.03		
5	16QAM	1	24	22.91	22.91	22.90	23	2
5	16QAM	12	0	22.00	22.07	22.01		
5	16QAM	12	7	21.88	21.93	21.89		
5	16QAM	12	13	22.01	21.98	21.96	23	2
5	16QAM	25	0	21.82	21.85	21.82		
5	64QAM	1	0	21.82	22.12	22.06		
5	64QAM	1	12	22.04	22.16	22.07	23	2
5	64QAM	1	24	22.05	22.10	22.06		
5	64QAM	12	0	20.98	21.08	20.96		
5	64QAM	12	7	21.07	21.10	20.97	22	3
5	64QAM	12	13	21.03	21.16	20.96		
5	64QAM	25	0	21.16	21.02	20.96		



Band 2 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	QPSK	1	0	23.14	23.29	23.21	24	0						
20	QPSK	1	49	23.08	23.21	23.16								
20	QPSK	1	99	23.05	23.16	23.11								
20	QPSK	50	0	22.26	22.27	22.20								
20	QPSK	50	24	22.15	22.22	22.13	23	1						
20	QPSK	50	50	22.18	22.22	22.15								
20	QPSK	100	0	22.17	22.26	22.20								
20	16QAM	1	0	22.30	22.37	22.31								
20	16QAM	1	49	22.23	22.31	22.27	23	1						
20	16QAM	1	99	22.21	22.27	22.22								
20	16QAM	50	0	21.28	21.32	21.24								
20	16QAM	50	24	21.17	21.24	21.21								
20	16QAM	50	50	21.19	21.28	21.23	22	2						
20	16QAM	100	0	21.12	21.25	21.20								
20	64QAM	1	0	21.13	21.36	21.20								
20	64QAM	1	49	21.08	21.23	21.16								
20	64QAM	1	99	21.06	21.15	21.08	22	2						
20	64QAM	50	0	20.07	20.20	20.16								
20	64QAM	50	24	20.15	20.19	20.16								
20	64QAM	50	50	20.12	20.09	20.18								
20	64QAM	100	0	20.07	20.29	20.29	21	3						
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.57	18.80	19.10	24	0						
15	QPSK	1	37	22.96	23.09	23.07								
15	QPSK	1	74	23.00	23.11	23.01								
15	QPSK	36	0	22.12	22.24	22.12								
15	QPSK	36	20	22.03	22.19	22.09	23	1						
15	QPSK	36	39	22.06	22.17	22.02								
15	QPSK	75	0	22.13	22.13	22.07								
15	16QAM	1	0	22.20	22.29	22.27								
15	16QAM	1	37	22.09	22.18	22.16	23	1						
15	16QAM	1	74	22.17	22.23	22.16								
15	16QAM	36	0	21.23	21.19	21.09								
15	16QAM	36	20	21.05	21.19	21.11								
15	16QAM	36	39	21.04	21.25	21.19	22	2						
15	16QAM	75	0	21.08	21.12	21.10								
15	64QAM	1	0	21.16	21.30	21.24								
15	64QAM	1	37	21.16	21.28	21.13								
15	64QAM	1	74	21.09	21.24	21.09	22	2						
15	64QAM	36	0	20.23	20.31	20.21								
15	64QAM	36	20	20.11	20.37	20.25								
15	64QAM	36	39	20.15	20.28	20.12								
15	64QAM	75	0	20.11	20.25	20.30	21	3						
Channel														
Frequency (MHz)														
10	QPSK	1	0	18.55	18.80	19.10	24	0						
10	QPSK	1	25	23.03	23.16	23.13								
10	QPSK	1	49	22.92	23.07	23.04								
10	QPSK	25	0	22.22	22.28	22.06								
10	QPSK	25	12	22.12	22.23	22.05	23	1						
10	QPSK	25	25	22.14	22.16	22.08								
10	QPSK	50	0	22.10	22.15	22.17								
10	16QAM	1	0	22.17	22.24	22.24								
10	16QAM	1	25	22.19	22.23	22.22	23	1						
10	16QAM	1	49	22.15	22.21	22.07								
10	16QAM	25	0	21.22	21.24	21.18								
10	16QAM	25	12	21.12	21.15	21.10								
10	16QAM	25	25	21.05	21.19	21.12	22	2						
10	16QAM	50	0	21.02	21.16	21.12								
10	64QAM	1	0	21.09	21.28	21.20								
10	64QAM	1	25	21.07	21.27	21.19								
10	64QAM	1	49	21.03	21.09	21.09	22	2						
10	64QAM	25	0	20.22	20.23	20.14								
10	64QAM	25	12	20.06	20.33	20.28								
10	64QAM	25	25	20.20	20.25	20.17								
10	64QAM	50	0	20.23	20.31	20.24	21	3						
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.52	18.80	19.07	24	0						
5	QPSK	1	0	23.04	23.19	23.07								
5	QPSK	1	12	23.00	23.13	23.11								
5	QPSK	1	24	22.97	23.12	23.03								
5	QPSK	12	0	22.13	22.26	22.07	23	1						
5	QPSK	12	7	22.01	22.21	22.06								
5	QPSK	12	13	22.12	22.08	22.11								
5	QPSK	25	0	22.10	22.12	22.16								
5	16QAM	1	0	22.26	22.26	22.17	23	1						
5	16QAM	1	12	22.10	22.18	22.16								
5	16QAM	1	24	22.08	22.20	22.11								
5	16QAM	12	0	21.14	21.26	21.21								
5	16QAM	12	7	21.08	21.09	21.16	22	2						
5	16QAM	12	13	21.10	21.23	21.15								
5	16QAM	25	0	21.06	21.12	21.06								
5	64QAM	1	0	21.22	21.27	21.23								
5	64QAM	1	12	21.09	21.29	21.18	22	2						
5	64QAM	1	24	21.01	21.10	21.08								
5	64QAM	12	0	20.20	20.23	20.17								
5	64QAM	12	7	20.20	20.34	20.20								
5	64QAM	12	13	20.15	20.21	20.14	21	3						
5	64QAM	25	0	20.06	20.34	20.17								
Channel														
Frequency (MHz)														
3	QPSK	1	0	18.51	18.80	19.15	24	0						
3	QPSK	1	8	23.01	23.09	23.03								
3	QPSK	1	14	22.96	23.04	23.02								
3	QPSK	8	0	22.22	22.24	22.07								
3	QPSK	8	4	22.12	22.13	22.08	23	1						
3	QPSK	8	7	22.09	22.12	22.11								
3	QPSK	15	0	22.03	22.21	22.09								
3	16QAM	1	0	22.17	22.33	22.22								
3	16QAM	1	8	22.14	22.16	22.24	23	1						
3	16QAM	1	14	22.07	22.19	22.10								
3	16QAM	8	0	21.23	21.25	21.11								
3	16QAM	8	4	21.11	21.13	21.15								
3	16QAM	8	7	21.09	21.16	21.13	22	2						
3	16QAM	15	0	21.08	21.19	21.06								
3	64QAM	1	0	21.22	21.23	21.19								
3	64QAM	1	8	21.07	21.26	21.07								
3	64QAM	1	14	21.12	21.07	21.19	22	2						
3	64QAM	8	0	20.12	20.38	20.27								
3	64QAM	8	4	20.22	20.34	20.13								
3	64QAM	8	7	20.21	20.28	20.15								
3	64QAM	15	0	20.20	20.27	20.18	21	3						
Channel														
Frequency (MHz)														
1.4	QPSK	3	0	18.50	18.80	19.09	24	0						
1.4	QPSK	3	3	22.97	23.06	23.04								
1.4	QPSK	3	5	23.01	23.09	23.03								
1.4	QPSK	3	0	23.04	23.16	23.14								
1.4	QPSK	3	1	23.02	23.08	23.06	23	1						
1.4	QPSK	3	3	22.95	23.07	22.96								
1.4	QPSK	6	0	22.20	22.19	22.10								
1.4	16QAM	1	0	22.00	22.22	22.03								
1.4	16QAM	1	3	22.11	22.16	22.07	23	1						
1.4	16QAM	1	5	22.04	22.12	22.10								
1.4	16QAM	3	0	22.22	22.30	22.27								
1.4	16QAM	3	1	22.11	22.22	22.18								
1.4	16QAM	3	3	22.09	22.18	22.10	22	2						
1.4	64QAM	1	0	21.22	21.30	21.21								
1.4	64QAM	1	3	21.08	21.28	21.05								
1.4	64QAM	1	5	21.04	21.08	21.05								
1.4	64QAM	3	0	21.15	21.21	21.21	22	2						
1.4	64QAM	3	1	21.06	21.16	21.09								
1.4	64QAM	3	3	21.00	21.15	21.14								
1.4	64QAM	6	0	20.16	20.24	20.28								

Band 7 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				20850	21100	21350	24	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	23.50	23.70	23.63	23	1	
20	QPSK	1	49	23.46	23.56	23.52			
20	QPSK	1	99	23.46	23.45	23.50	23	1	
20	QPSK	50	0	22.64	22.69	22.65			
20	QPSK	50	24	22.56	22.63	22.42	23	1	
20	QPSK	50	50	22.59	22.56	22.53			
20	QPSK	100	0	22.43	22.70	22.66	23	1	
20	16QAM	1	0	22.67	22.78	22.66			
20	16QAM	1	49	22.69	22.66	22.68	23	1	
20	16QAM	1	99	22.55	22.60	22.60			
20	16QAM	50	0	21.60	21.76	21.66	22	2	
20	16QAM	50	24	21.54	21.62	21.62			
20	16QAM	50	50	21.48	21.61	21.56	22	2	
20	16QAM	100	0	21.42	21.66	21.49			
20	64QAM	1	0	21.42	21.73	21.64	22	2	
20	64QAM	1	49	21.56	21.71	21.62			
20	64QAM	1	99	21.54	21.78	21.59	21	3	
20	64QAM	50	0	20.46	20.76	20.54			
20	64QAM	50	24	20.57	20.65	20.66	21	3	
20	64QAM	50	50	20.55	20.65	20.66			
20	64QAM	100	0	20.50	20.70	20.71	21	3	
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.39	23.65	23.50	24	0	
15	QPSK	1	37	23.36	23.44	23.43			
15	QPSK	1	74	23.39	23.34	23.37	23	1	
15	QPSK	36	0	22.64	22.60	22.59			
15	QPSK	36	20	22.43	22.52	22.39	23	1	
15	QPSK	36	39	22.55	22.44	22.43			
15	QPSK	75	0	22.38	22.62	22.53	23	1	
15	16QAM	1	0	22.57	22.72	22.52			
15	16QAM	1	37	22.62	22.63	22.59	23	1	
15	16QAM	1	74	22.45	22.46	22.53			
15	16QAM	36	0	21.54	21.63	21.52	22	2	
15	16QAM	36	20	21.40	21.59	21.55			
15	16QAM	36	39	21.41	21.55	21.50	22	2	
15	16QAM	75	0	21.38	21.61	21.35			
15	64QAM	1	0	21.42	21.73	21.65	22	2	
15	64QAM	1	37	21.41	21.66	21.66			
15	64QAM	1	74	21.50	21.74	21.58	21	3	
15	64QAM	36	0	20.51	20.73	20.70			
15	64QAM	36	20	20.55	20.62	20.56	21	3	
15	64QAM	36	39	20.53	20.77	20.55			
15	64QAM	75	0	20.46	20.63	20.67	21	3	
Channel				20800	21100	21400			
Frequency (MHz)				2506	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.37	23.59	23.51	24	0	
10	QPSK	1	25	23.32	23.53	23.46			
10	QPSK	1	49	23.34	23.39	23.46	23	1	
10	QPSK	25	0	22.58	22.50	22.61			
10	QPSK	25	12	22.48	22.59	22.35	23	1	
10	QPSK	25	25	22.51	22.51	22.40			
10	QPSK	50	0	22.32	22.64	22.53	23	1	
10	16QAM	1	0	22.54	22.67	22.61			
10	16QAM	1	25	22.55	22.57	22.64	23	1	
10	16QAM	1	49	22.43	22.50	22.54			
10	16QAM	25	0	21.47	21.64	21.55	22	2	
10	16QAM	25	12	21.45	21.55	21.53			
10	16QAM	25	25	21.43	21.54	21.46	22	2	
10	16QAM	50	0	21.32	21.56	21.36			
10	64QAM	1	0	21.47	21.72	21.57	22	2	
10	64QAM	1	25	21.51	21.73	21.66			
10	64QAM	1	49	21.54	21.62	21.56	21	3	
10	64QAM	25	0	20.43	20.61	20.70			
10	64QAM	25	12	20.58	20.79	20.61	21	3	
10	64QAM	25	25	20.46	20.61	20.55			
10	64QAM	50	0	20.53	20.70	20.71	21	3	
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.45	23.64	23.57	24	0	
5	QPSK	1	12	23.38	23.45	23.39			
5	QPSK	1	24	23.33	23.42	23.44	23	1	
5	QPSK	12	0	22.65	22.59	22.51			
5	QPSK	12	7	22.51	22.49	22.30	23	1	
5	QPSK	12	13	22.47	22.45	22.43			
5	QPSK	25	0	22.28	22.63	22.61	23	1	
5	16QAM	1	0	22.63	22.71	22.55			
5	16QAM	1	12	22.64	22.53	22.64	23	1	
5	16QAM	1	24	22.44	22.51	22.56			
5	16QAM	12	0	21.55	21.66	21.60	22	2	
5	16QAM	12	7	21.44	21.54	21.58			
5	16QAM	12	13	21.44	21.56	21.53	22	2	
5	16QAM	25	0	21.29	21.57	21.38			
5	64QAM	1	0	21.57	21.76	21.57	22	2	
5	64QAM	1	12	21.45	21.71	21.65			
5	64QAM	1	24	21.58	21.64	21.72	21	3	
5	64QAM	12	0	20.54	20.70	20.57			
5	64QAM	12	7	20.54	20.63	20.63	21	3	
5	64QAM	12	13	20.44	20.64	20.59			
5	64QAM	25	0	20.49	20.71	20.55	21	3	
Channel				20725	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	

Band 14 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				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
10	QPSK	1	0	23.20	23.23	23.24	24	0	
10	QPSK	1	25	23.15	23.15	23.15			
10	QPSK	1	49	23.13	23.13	23.13			
10	QPSK	25	0	22.75	22.75	22.75			
10	QPSK	25	12	22.71	22.71	22.71	23.5	0.5	
10	QPSK	25	25	22.64	22.64	22.64			
10	QPSK	50	0	22.70	22.70	22.70			
10	16QAM	1	0	22.80	22.80	22.80			
10	16QAM	1	25	22.82	22.82	22.82	23.5	0.5	
10	16QAM	1	49	22.77	22.77	22.77			
10	16QAM	25	0	21.85	21.85	21.85			
10	16QAM	25	12	21.77	21.77	21.77			
10	16QAM	25	25	21.70	21.70	21.70	22.5	1.5	
10	16QAM	50	0	21.68	21.68	21.68			
10	64QAM	1	0	21.85	21.85	21.85			
10	64QAM	1	25	21.73	21.73	21.73			
10	64QAM	1	49	21.78	21.78	21.78	22.5	1.5	
10	64QAM	25	0	20.84	20.84	20.84			
10	64QAM	25	12	20.73	20.73	20.73			
10	64QAM	25	25	20.71	20.71	20.71			
10	64QAM	50	0	20.71	20.71	20.71	21.5	2.5	
10	64QAM	50	0	20.66	20.66	20.66			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	23.20	23.23	23.24	24	0	
5	QPSK	1	12	23.15	23.21	23.23			
5	QPSK	1	24	23.10	23.10	23.10			
5	QPSK	12	0	22.84	22.82	22.74			
5	QPSK	12	7	22.72	22.73	22.76	23.5	0.5	
5	QPSK	12	13	22.67	22.68	22.66			
5	QPSK	25	0	22.70	22.76	22.69			
5	16QAM	1	0	22.89	22.81	22.81			
5	16QAM	1	12	22.80	22.73	22.83	23.5	0.5	
5	16QAM	1	24	22.78	22.78	22.72			
5	16QAM	12	0	21.76	21.82	21.78			
5	16QAM	12	7	21.73	21.75	21.76			
5	16QAM	12	13	21.75	21.75	21.79	22.5	1.5	
5	16QAM	25	0	21.69	21.75	21.74			
5	64QAM	1	0	21.68	21.71	21.80			
5	64QAM	1	12	21.64	21.74	21.70			
5	64QAM	1	24	21.77	21.69	21.71	22.5	1.5	
5	64QAM	12	0	20.77	20.73	20.72			
5	64QAM	12	7	20.75	20.79	20.77			
5	64QAM	12	13	20.77	20.69	20.72			
5	64QAM	25	0	20.66	20.70	20.66	21.5	2.5	
5	64QAM	25	0	20.66	20.70	20.66			

Band 25 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				26140	26340	26590	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1905			
20	QPSK	1	0	23.26	23.35	23.29	24	0	
20	QPSK	1	49	23.12	23.26	23.16			
20	QPSK	1	99	23.07	23.23	23.14			
20	QPSK	50	0	22.27	22.35	22.25			
20	QPSK	50	24	22.23	22.34	22.23	23	1	
20	QPSK	50	50	22.21	22.23	22.27			
20	QPSK	100	0	22.23	22.28	22.25			
20	16QAM	1	0	22.42	22.46	22.43			
20	16QAM	1	49	22.35	22.34	22.35	23	1	
20	16QAM	1	99	22.31	22.33	22.28			
20	16QAM	50	0	21.40	21.40	21.27			
20	16QAM	50	24	21.22	21.35	21.27			
20	16QAM	50	50	21.29	21.36	21.27	22	2	
20	16QAM	100	0	21.21	21.32	21.26			
20	64QAM	1	0	21.17	21.43	21.19			
20	64QAM	1	49	21.31	21.43	21.34			
20	64QAM	1	99	21.32	21.30	21.21	22	2	
20	64QAM	50	0	20.19	20.28	20.38			
20	64QAM	50	24	20.24	20.43	20.38			
20	64QAM	50	50	20.23	20.27	20.35			
20	64QAM	100	0	20.25	20.29	20.18	21	3	
20	64QAM	100	0	20.25	20.29	20.18			
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	23.22	23.23	23.18	24	0	
15	QPSK	1	37	23.07	23.14	23.08			
15	QPSK	1	74	22.96	23.13	23.00			
15	QPSK	36	0	22.24	22.30	22.12			
15	QPSK	36	20	22.14	22.30	22.20	23	1	
15	QPSK	36	39	22.06	22.15	22.18			
15	QPSK	75	0	22.10	22.17	22.15			
15	16QAM	1	0	22.30	22.33	22.35			
15	16QAM	1	37	22.25	22.22	22.24	23	1	
15	16QAM	1	74	22.22	22.21	22.15			
15	16QAM	36	0	21.36	21.31	21.21			
15	16QAM	36	20	21.07	21.28	21.20			
15	16QAM	36	39	21.20	21.35	21.29	22	2	
15	16QAM	75	0	21.09	21.27	21.18			
15	64QAM	1	0	21.21	21.41	21.32			
15	64QAM	1	37	21.26	21.27	21.32			
15	64QAM	1	74	21.23	21.37	21.22	22	2	
15	64QAM	36	0	20.23	20.46	20.34			
15	64QAM	36	20	20.35	20.36	20.20			
15	64QAM	36	39	20.25	20.26	20.38			
15	64QAM	75	0	20.17	20.38	20.37	21	3	
15	64QAM	75	0	20.17	20.38	20.37			
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	23.12	23.27	23.18	24	0	
10	QPSK	1	25	23.08	23.12	23.14			
10	QPSK	1	49	22.97	23.12	23.00			
10	QPSK	25	0	22.23	22.30	22.21			
10	QPSK	25	12	22.14	22.30	22.13	23	1	
10	QPSK	25	25	22.10	22.14	22.21			
10	QPSK	50	0	22.08	22.21	22.14			
10	QPSK	1	0	22.37	22.43	22.31			
10	16QAM	1	25	22.23	22.21	22.30	23	1	
10	16QAM	1	49	22.22	22.19	22.14			
10	16QAM	25	0	21.25	21.33	21.23			
10	16QAM	25	12	21.18	21.26	21.20			
10	16QAM	25	25	21.14	21.31	21.17	22	2	
10	16QAM	50	0	21.10	21.20	21.17			
10	64QAM	1	0	21.18	21.33	21.39			
10	64QAM	1	25	21.33	21.45	21.35			
10	64QAM	1	49	21.19	21.34	21.29	22	2	
10	64QAM	25	0	20.29	20.37	20.36			
10	64QAM	25	12	20.30	20.30	20.24			
10	64QAM	25	25	20.24	20.37	20.35			
10	64QAM	50	0	20.37	20.31	20.36	21	3	
10	64QAM	50	0	20.37	20.31	20.36			
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	23.13	23.25	23.23	24	0	
5	QPSK	1	12	23.06	23.20	23.07			
5	QPSK	1	24	22.97	23.13	23.07	23	1	
5	QPSK	12	0	22.20	22.21	22.18			
5	QPSK	12	7	22.17	22.25	22.09			
5	QPSK	12	13	22.12	22.10	22.19			
5	QPSK	25	0	22.16	22.14	22.11	23	1	
5	QPSK	1	0	22.35	22.38	22.31			
5	16QAM	1	12	22.30	22.26	22.33			
5	16QAM	1	24	22.22	22.23	22.22			
5	16QAM	1	12	22.30	22.26	22.23	23	1	
5	16QAM	1	24	22.19	22.24	22.17			
5	16QAM	12	0	21.31	21.28	21.23			
5	16QAM	12	7	21.16	21.24	21.23			
5	16QAM	12	13	21.17	21.23	21.21	22	2	
5	16QAM	25	0	21.11	21.22	21.23			
5	64QAM	1	0	21.24	21.29	21.19			
5	64QAM	1	12	21.28	21.41	21.35			
5	64QAM	1	24	21.31	21.34	21.24	22	2	
5	64QAM	12	0	20.37	20.34	20.38			
5	64QAM	12	7	20.25	20.40	20.35			
5	64QAM	12	13	20.36	20.38	20.35			
5	64QAM	25	0	20.29	20.32	20.32	21	3	
5	64QAM	25	0	20.29	20.32	20.32			
Channel				26065	26340	26675	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	23.22	23.23	23.14	24	0	
3	QPSK	1	8	23.08	23.22	23.13			
3	QPSK	1	14	22.92	23.13	23.09			
3	QPSK	8	0	22.19	22.21	22.13			
3	QPSK	8	0	22.10	22.25	22.09	23	1	
3	QPSK	8	7	22.09	22.19	22.22			
3	QPSK	15	0	22.14	22.25	22.21			
3	16QAM	1	0	22.35	22.39	22.31			
3	16QAM	1	8	22.26	22.28	22.30	23	1	
3	16QAM	1	14	22.28	22.23	22.24			
3	16QAM	8	0	21.28	21.33	21.12			
3	16QAM	8	4	21.10	21.29	21.17			
3	16QAM	8	15	21.15	21.21	21.24	22	2	
3	16QAM	15	0	21.18	21.24	21.12			
3	64QAM	1	0	21.35	21.24	21.37			
3	64QAM	1	8	21.25	21.36	21.23			
3	64QAM	1	14	21.31	21.42	21.38	22	2	
3	64QAM	8	0	20.27	20.26	20.30			
3	64QAM	8	4	20.31	20.23	20.38			
3	64QAM	8	7	20.30	20.30	20.37			
3	64QAM	15	0	20.23	20.33	20.37	21	3	
3	64QAM	15	0	20.23	20.33	20.37			
Channel				26042	26340	26683	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1914.3			
1.4	QPSK	1	0	23.18	23.31	23.17	24	0	
1.4	QPSK	1	3	23.02	23.16	23.11			
1.4	QPSK	1	5	23.03	23.09	23.01			
1.4	QPSK	3	0	23.20	23.24	23.14			
1.4	QPSK	3	1	22.98	23.11	23.07	23	1	
1.4	QPSK	3	3	23.03	23.09	23.03			
1.4	QPSK	6	0	22.14	22.22	22.18			
1.4	16QAM	1	0	22.14	22.26	22.15			
1.4	16QAM	1	3	22.09	22.16	22.16	23	1	
1.4	16QAM	1	5	22.17	22.25	22.13			
1.4	16QAM	3	0	22.28	22.37	22.40			
1.4	16QAM	3	1	22.23	22.27	22.22			
1.4	16QAM	3	3	22.24	22.18	22.22	22	2	
1.4	16QAM	6	0	21.34	21.29	21.22			
1.4	64QAM	1	0	21.17	21.27	21.32			
1.4	64QAM	1	3	21.29	21.26	21.34			
1.4	64QAM	1	5	21.36	21.40	21.38	22	2	
1.4	64QAM	3	0	21.32	21.38	21.18			
1.4	64QAM	3	1	21.29	21.23	21.38			
1.4	64QAM	3	3	21.37	21.43	21.30			
1.4	64QAM	6	0	20.14	20.42	20.19	21	3	

Band 66 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				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	19.12	19.21	19.07	19.5	0	
20	QPSK	1	49	19.01	19.14	18.99			
20	QPSK	1	99	18.88	18.96	18.91			
20	QPSK	50	0	19.07	19.12	19.05			
20	QPSK	50	24	18.97	19.09	18.98	19.5	0	
20	QPSK	50	50	19.01	19.03	18.91			
20	QPSK	100	0	18.94	19.14	19.06			
20	16QAM	1	0	18.86	19.02	18.91			
20	16QAM	1	49	18.95	19.04	18.93	19.5	0	
20	16QAM	1	99	19.16	19.13	19.03			
20	16QAM	50	0	18.94	19.00	18.97			
20	16QAM	50	24	19.11	19.14	18.98			
20	16QAM	50	50	18.89	19.08	18.97	19.5	0	
20	16QAM	100	0	18.97	19.00	18.92			
20	64QAM	1	0	19.05	19.04	18.90			
20	64QAM	1	49	19.10	19.15	19.02			
20	64QAM	1	99	19.00	19.20	18.96	19.5	0	
20	64QAM	50	0	19.06	19.08	19.03			
20	64QAM	50	24	19.06	19.15	19.01			
20	64QAM	50	50	19.04	19.16	18.92			
20	64QAM	100	0	19.04	19.11	18.96	19.5	0	
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	19.07	19.12	19.07	19.5	0	
15	QPSK	1	37	18.97	19.14	19.06			
15	QPSK	1	74	18.96	18.99	18.89			
15	QPSK	36	0	19.12	19.08	19.02			
15	QPSK	36	20	18.99	19.12	18.95	19.5	0	
15	QPSK	36	39	18.96	19.07	18.99			
15	QPSK	75	0	18.99	19.15	19.04			
15	16QAM	1	0	18.93	19.10	19.02			
15	16QAM	1	37	18.96	19.02	18.96	19.5	0	
15	16QAM	1	74	19.05	19.11	19.04			
15	16QAM	36	0	19.03	19.01	19.04			
15	16QAM	36	20	19.10	19.09	19.07			
15	16QAM	36	39	18.91	19.00	18.98	19.5	0	
15	16QAM	75	0	18.97	18.96	18.95			
15	64QAM	1	0	19.01	19.08	18.97			
15	64QAM	1	37	19.07	19.17	18.96			
15	64QAM	1	74	18.94	19.05	19.01	19.5	0	
15	64QAM	36	0	19.06	19.04	19.05			
15	64QAM	36	20	19.01	19.19	19.02			
15	64QAM	36	39	19.01	19.05	18.93			
15	64QAM	75	0	18.95	19.06	18.93	19.5	0	
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	19.15	19.18	19.03	19.5	0	
10	QPSK	1	25	19.01	19.10	19.09			
10	QPSK	1	49	18.94	19.05	18.97			
10	QPSK	25	0	19.17	19.15	19.00			
10	QPSK	25	12	18.91	19.11	19.02	19.5	0	
10	QPSK	25	25	18.94	19.06	19.00			
10	QPSK	50	0	18.92	19.06	18.97			
10	16QAM	1	0	18.94	19.11	18.92			
10	16QAM	1	25	18.95	18.96	18.93	19.5	0	
10	16QAM	1	49	19.13	19.19	18.99			
10	16QAM	25	0	19.03	19.01	19.05			
10	16QAM	25	12	19.01	19.10	18.96			
10	16QAM	25	25	18.95	19.08	19.03	19.5	0	
10	16QAM	50	0	18.99	18.95	19.02			
10	64QAM	1	0	19.10	19.03	18.93			
10	64QAM	1	25	19.04	19.07	19.02			
10	64QAM	1	49	19.00	19.17	18.94	19.5	0	
10	64QAM	25	0	19.05	19.20	18.88			
10	64QAM	25	12	19.01	19.17	18.98			
10	64QAM	25	25	19.10	19.08	18.93			
10	64QAM	50	0	19.08	19.14	18.93	19.5	0	
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	19.08	19.20	19.03	19.5	0	
5	QPSK	1	12	18.94	19.09	19.01			
5	QPSK	1	24	18.88	18.98	18.88			
5	QPSK	12	0	19.08	19.07	18.99			
5	QPSK	12	7	18.94	19.09	19.04	19.5	0	
5	QPSK	12	13	18.96	19.10	19.02			
5	QPSK	25	0	18.91	19.08	18.99			
5	16QAM	1	0	18.92	19.11	18.96			
5	16QAM	1	12	18.93	18.96	18.96	19.5	0	
5	16QAM	1	24	19.17	19.15	18.95			
5	16QAM	12	0	18.93	19.05	19.01			
5	16QAM	12	7	19.08	19.15	19.07			
5	16QAM	12	13	18.93	19.05	19.05	19.5	0	
5	16QAM	25	0	18.92	18.94	18.96			
5	64QAM	1	0	19.04	19.14	19.05			
5	64QAM	1	12	19.07	19.02	18.90			
5	64QAM	1	24	19.06	19.14	18.98	19.5	0	
5	64QAM	12	0	19.08	19.04	19.02			
5	64QAM	12	7	19.05	19.17	18.99			
5	64QAM	12	13	19.07	19.16	18.92			
5	64QAM	25	0	19.09	19.19	19.04	19.5	0	
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	19.17	19.18	19.00	19.5	0	
3	QPSK	1	8	18.90	19.10	19.04			
3	QPSK	1	14	18.96	19.05	18.92			
3	QPSK	8	0	19.06	19.10	19.02			
3	QPSK	8	4	18.93	19.04	18.95	19.5	0	
3	QPSK	8	7	18.95	19.10	18.95			
3	QPSK	15	0	18.96	19.08	19.02			
3	16QAM	1	0	18.95	19.13	18.91			
3	16QAM	1	8	18.90	19.06	18.97	19.5	0	
3	16QAM	1	14	19.07	19.15	19.00			
3	16QAM	8	0	18.95	19.10	18.97			
3	16QAM	8	4	19.10	19.11	18.97			
3	16QAM	8	7	18.96	19.08	18.96	19.5	0	
3	16QAM	15	0	18.89	18.97	18.97			
3	64QAM	1	0	19.00	19.06	19.02			
3	64QAM	1	8	19.08	19.06	18.94			
3	64QAM	1	14	18.96	19.13	18.94	19.5	0	
3	64QAM	8	0	19.02	19.07	19.04			
3	64QAM	8	4	18.93	19.13	19.03			
3	64QAM	8	7	19.10	19.10	18.93			
3	64QAM	15	0	18.99	19.19	18.95	19.5	0	
Channel				131979	132322	132665			
Frequency (MHz)				1710.7	1745	1773.3			
1.4	QPSK	1	0	19.15	19.18	19.12	19.5	0	
1.4	QPSK	1	3	18.99	19.08	19.06			
1.4	QPSK	1	5	18.91	18.99	18.97			
1.4	QPSK	3	0	19.14	19.16	19.02			
1.4	QPSK	3	1	18.97	19.03	18.98	18.5	1	
1.4	QPSK	3	3	18.94	19.04	18.97			
1.4	QPSK	6	0	18.90	19.12	19.00			
1.4	16QAM	1	0	18.91	19.06	18.97			
1.4	16QAM	1	3	18.97	18.96	18.96	18.5	1	
1.4	16QAM	1	5	19.06	19.10	19.01			
1.4	16QAM	3	0	19.00	19.07	19.02			
1.4	16QAM	3	1	19.05	19.15	18.96			
1.4	16QAM	3	3	18.88	19.03	19.04	17.5	2	
1.4	16QAM	6	0	18.98	18.99	18.94			
1.4	64QAM	1	0	19.06	19.19	18.89			
1.4	64QAM	1	3	19.05	19.15	19.01			
1.4	64QAM	1	5	18.97	19.07	18.97	17.5	2	
1.4	64QAM	3	0	19.08	19.06	18.97			
1.4	64QAM	3	1	19.01	19.05	18.89			
1.4	64QAM	3	3	19.00	19.02	19.00			
1.4	64QAM	6	0	18.98	19.06	18.89	16.5	3	

Band 38 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				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2680	2695	2610			
20	QPSK	1	0	23.71	23.87	23.77	24	0	
20	QPSK	1	49	23.59	23.77	23.78			
20	QPSK	1	99	23.56	23.70	23.69			
20	QPSK	50	0	22.82	22.91	22.71	23	1	
20	QPSK	50	24	22.72	22.82	22.71			
20	QPSK	50	50	22.73	22.83	22.77			
20	QPSK	100	0	22.70	22.82	22.73	23	1	
20	16QAM	1	0	22.87	22.91	22.91			
20	16QAM	1	49	22.79	22.90	22.81			
20	16QAM	1	99	22.82	22.83	22.83	22	2	
20	16QAM	50	0	21.82	21.86	21.75			
20	16QAM	50	24	21.68	21.80	21.77			
20	16QAM	50	50	21.71	21.84	21.85	22	2	
20	16QAM	100	0	21.74	21.85	21.72			
20	64QAM	1	0	21.71	21.96	21.67			
20	64QAM	1	49	21.79	21.98	21.79	22	2	
20	64QAM	1	99	21.60	21.90	21.81			
20	64QAM	50	0	20.72	20.77	20.78			
20	64QAM	50	24	20.68	20.88	20.69	21	3	
20	64QAM	50	50	20.75	20.89	20.85			
20	64QAM	100	0	20.71	20.93	20.72			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	23.62	23.73	23.68			
15	QPSK	1	37	23.52	23.66	23.71			
15	QPSK	1	74	23.52	23.62	23.65			
15	QPSK	36	0	22.70	22.86	22.63	23	1	
15	QPSK	36	20	22.61	22.67	22.64			
15	QPSK	36	39	22.69	22.70	22.68			
15	QPSK	75	0	22.64	22.78	22.69	23	1	
15	16QAM	1	0	22.76	22.79	22.77			
15	16QAM	1	37	22.74	22.76	22.67			
15	16QAM	1	74	22.73	22.75	22.75	22	2	
15	16QAM	36	0	21.76	21.77	21.67			
15	16QAM	36	20	21.60	21.71	21.70			
15	16QAM	36	39	21.59	21.75	21.79	22	2	
15	16QAM	75	0	21.64	21.79	21.63			
15	64QAM	1	0	21.72	21.79	21.79			
15	64QAM	1	37	21.67	21.81	21.87	22	2	
15	64QAM	1	74	21.74	21.98	21.72			
15	64QAM	36	0	20.81	20.88	20.86			
15	64QAM	36	20	20.63	20.92	20.66	21	3	
15	64QAM	36	39	20.77	20.76	20.76			
15	64QAM	75	0	20.76	20.85	20.72			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	23.64	23.77	23.69			
10	QPSK	1	25	23.50	23.73	23.73			
10	QPSK	1	49	23.44	23.61	23.63			
10	QPSK	25	0	22.77	22.86	22.60	23	1	
10	QPSK	25	12	22.62	22.76	22.61			
10	QPSK	25	25	22.64	22.74	22.72			
10	QPSK	50	0	22.57	22.76	22.67	23	1	
10	16QAM	1	0	22.81	22.87	22.80			
10	16QAM	1	25	22.70	22.83	22.66			
10	16QAM	1	49	22.72	22.73	22.69	22	2	
10	16QAM	25	0	21.79	21.72	21.64			
10	16QAM	25	12	21.64	21.71	21.70			
10	16QAM	25	25	21.61	21.73	21.78	22	2	
10	16QAM	50	0	21.60	21.80	21.65			
10	64QAM	1	0	21.65	21.97	21.76			
10	64QAM	1	25	21.71	21.95	21.76	22	2	
10	64QAM	1	49	21.82	21.77	21.71			
10	64QAM	25	0	20.63	20.78	20.85			
10	64QAM	25	12	20.70	20.92	20.87	21	3	
10	64QAM	25	25	20.70	20.82	20.80			
10	64QAM	50	0	20.78	20.87	20.73			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	23.67	23.81	23.73			
5	QPSK	1	12	23.51	23.71	23.64			
5	QPSK	1	24	23.46	23.67	23.60			
5	QPSK	12	0	22.78	22.85	22.67	23	1	
5	QPSK	12	7	22.69	22.79	22.68			
5	QPSK	12	13	22.58	22.71	22.67			
5	QPSK	25	0	22.57	22.68	22.60	23	1	
5	16QAM	1	0	22.79	22.85	22.83			
5	16QAM	1	12	22.76	22.84	22.76			
5	16QAM	1	24	22.76	22.77	22.76	22	2	
5	16QAM	12	0	21.74	21.72	21.66			
5	16QAM	12	7	21.58	21.71	21.72			
5	16QAM	12	13	21.65	21.76	21.80	22	2	
5	16QAM	25	0	21.60	21.80	21.68			
5	64QAM	1	0	21.73	21.86	21.82			
5	64QAM	1	12	21.75	21.94	21.84	22	2	
5	64QAM	1	24	21.80	21.95	21.85			
5	64QAM	12	0	20.73	20.95	20.81			
5	64QAM	12	7	20.67	20.89	20.85	21	3	
5	64QAM	12	13	20.80	20.90	20.78			
5	64QAM	25	0	20.80	20.97	20.67			
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Band 48 Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	14.97	15.22	15.00	14.98	16	0
20	QPSK	1	49	15.03	15.01	14.93	15.11		
20	QPSK	1	99	14.97	14.89	14.86	15.18		
20	QPSK	50	0	15.13	15.19	14.90	15.10		
20	QPSK	50	24	15.00	15.04	14.84	14.92	16	0
20	QPSK	50	50	15.03	15.08	14.86	14.97		
20	QPSK	100	0	15.06	15.15	15.01	15.10		
20	16QAM	1	0	14.97	15.02	14.74	14.96		
20	16QAM	1	49	14.98	15.01	14.84	15.19	16	0
20	16QAM	1	99	15.01	15.05	15.06	15.12		
20	16QAM	50	0	15.07	15.16	14.81	15.01		
20	16QAM	50	24	14.88	15.08	14.95	14.96		
20	16QAM	50	50	15.07	15.10	15.11	15.19	16	0
20	16QAM	100	0	15.08	15.04	14.87	14.89		
20	64QAM	1	0	14.81	15.10	14.84	14.83		
20	64QAM	1	49	14.86	15.16	14.83	14.94		
20	64QAM	1	99	14.79	15.05	14.83	14.91	16	0
20	64QAM	50	0	14.85	15.18	14.92	14.91		
20	64QAM	50	24	14.89	15.19	14.91	14.81		
20	64QAM	50	50	14.92	15.12	14.94	14.83		
20	64QAM	100	0	14.86	15.17	14.85	14.82		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	14.82	15.10	15.00	14.85	16	0
15	QPSK	1	37	14.97	14.95	14.88	14.93		
15	QPSK	1	74	14.82	14.72	14.76	15.09		
15	QPSK	36	0	14.96	15.19	14.72	15.01		
15	QPSK	36	20	14.79	14.98	14.71	14.72	16	0
15	QPSK	36	39	14.83	14.97	14.75	14.84		
15	QPSK	75	0	15.04	15.01	14.92	14.91		
15	16QAM	1	0	14.92	14.83	14.71	14.80		
15	16QAM	1	37	14.96	14.99	14.72	15.08	16	0
15	16QAM	1	74	14.81	15.02	14.84	15.08		
15	16QAM	36	0	14.85	15.10	14.71	14.93		
15	16QAM	36	20	14.77	14.97	14.89	14.90		
15	16QAM	36	39	14.99	14.93	14.92	15.01	16	0
15	16QAM	75	0	14.96	14.96	14.78	14.71		
15	64QAM	1	0	14.87	15.10	14.95	14.88		
15	64QAM	1	37	14.84	15.18	14.86	14.80		
15	64QAM	1	74	14.79	15.16	14.95	14.85	16	0
15	64QAM	36	0	14.84	15.07	14.88	14.95		
15	64QAM	36	20	14.92	15.16	14.90	14.82		
15	64QAM	36	39	14.80	15.15	14.96	14.97		
15	64QAM	75	0	14.78	15.06	14.84	14.90		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	14.82	15.03	14.89	14.91	16	0
10	QPSK	1	25	14.86	14.91	14.81	14.97		
10	QPSK	1	49	14.98	14.75	14.73	14.98		
10	QPSK	25	0	15.11	15.17	14.86	15.01		
10	QPSK	25	12	14.89	15.00	14.75	14.93	16	0
10	QPSK	25	25	14.91	15.09	14.72	14.89		
10	QPSK	50	0	14.87	15.09	14.98	14.93		
10	16QAM	1	0	14.81	14.86	14.75	14.80		
10	16QAM	1	25	14.84	14.91	14.86	15.10	16	0
10	16QAM	1	49	14.85	15.00	15.01	14.93		
10	16QAM	25	0	15.09	15.12	14.82	15.03		
10	16QAM	25	12	14.87	15.09	14.84	14.76		
10	16QAM	25	25	14.85	15.02	15.05	15.01	16	0
10	16QAM	50	0	15.08	14.90	14.70	14.72		
10	64QAM	1	0	14.94	15.17	14.86	14.87		
10	64QAM	1	25	14.83	15.15	14.95	14.81		
10	64QAM	1	49	14.96	15.19	14.97	14.85	16	0
10	64QAM	25	0	14.87	15.20	14.90	14.81		
10	64QAM	25	12	14.82	15.16	14.95	14.92		
10	64QAM	25	25	14.82	15.15	14.93	14.84		
10	64QAM	50	0	14.90	15.08	14.95	14.88		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	14.97	15.14	14.93	14.80	16	0
5	QPSK	1	12	14.83	15.00	14.90	15.05		
5	QPSK	1	24	14.91	14.84	14.80	15.06		
5	QPSK	12	0	14.98	14.98	14.75	14.93		
5	QPSK	12	7	14.99	15.02	14.65	14.79	16	0
5	QPSK	12	13	14.96	14.98	14.80	14.98		
5	QPSK	25	0	14.93	15.12	14.91	14.99		
5	16QAM	1	0	14.86	14.83	14.60	14.92		
5	16QAM	1	12	14.86	14.94	14.74	15.10	16	0
5	16QAM	1	24	14.82	14.90	14.94	15.02		
5	16QAM	12	0	15.07	15.01	14.72	14.89		
5	16QAM	12	7	14.74	15.07	14.84	14.75		
5	16QAM	12	13	14.96	15.02	15.01	15.01	16	0
5	16QAM	25	0	15.09	14.88	14.71	14.69		
5	64QAM	1	0	14.85	15.07	14.88	14.93		
5	64QAM	1	12	14.87	15.06	14.98	14.88		
5	64QAM	1	24	14.89	15.13	14.87	14.83	16	0
5	64QAM	12	0	14.79	15.10	14.85	14.82		
5	64QAM	12	7	14.79	15.10	14.83	14.93		
5	64QAM	12	13	14.95	15.13	14.84	14.80		
5	64QAM	25	0	14.78	15.17	14.82	14.86		
Channel				55240	55815	56170	56715		
Frequency (MHz)				3550	3607.5	3643	3697.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	14.97	15.14	14.93	14.80	16	0
5	QPSK	1	12	14.83	15.00	14.90	15.05		
5	QPSK	1	24	14.91	14.84	14.80	15.06		
5	QPSK	12	0	14.98	14.98	14.75	14.93		
5	QPSK	12	7	14.99	15.02	14.65	14.79	16	0
5	QPSK	12	13	14.96	14.98	14.80	14.98		
5	QPSK	25	0	14.93	15.12	14.91	14.99		
5	16QAM	1	0	14.86	14.83	14.60	14.92		
5	16QAM	1	12	14.86	14.94	14.74	15.10	16	0
5	16QAM	1	24	14.82	14.90	14.94	15.02		
5	16QAM	12	0	15.07	15.01	14.72	14.89		
5	16QAM	12	7	14.74	15.07	14.84	14.75		
5	16QAM	12	13	14.96	15.02	15.01	15.01	16	0
5	16QAM	25	0	15.09	14.88	14.71	14.69		
5	64QAM	1	0	14.85	15.07	14.88	14.93		
5	64QAM	1	12	14.87	15.06	14.98	14.88		
5	64QAM	1	24	14.89	15.13	14.87	14.83	16	0
5	64QAM	12	0	14.79	15.10	14.85	14.82		
5	64QAM	12	7	14.79	15.10	14.83	14.93		
5	64QAM	12	13	14.95	15.13	14.84	14.80		
5	64QAM	25	0	14.78	15.17	14.82	14.86		
Channel				55215	55815	56170	56715		
Frequency (MHz)				3547.5	3607.5	3643	3697.5	Tune-up limit (dBm)	MPR (dB)

Band 30 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				27710			16.5	0	
Frequency (MHz)				2310					
10	QPSK	1	0		15.65		16.5	0	
10	QPSK	1	25		15.41				
10	QPSK	1	49		15.49				
10	QPSK	25	0		15.62				
10	QPSK	25	12		15.52		16.5	0	
10	QPSK	25	25		15.43				
10	QPSK	50	0		15.51				
10	16QAM	1	0		15.56				
10	16QAM	1	25		15.49		16.5	0	
10	16QAM	1	49		15.39				
10	16QAM	25	0		15.60				
10	16QAM	25	12		15.51				
10	16QAM	25	25		15.48		16.5	0	
10	16QAM	50	0		15.41				
10	64QAM	1	0		15.59				
10	64QAM	1	25		15.55				
10	64QAM	1	49		15.64		16.5	0	
10	64QAM	25	0		15.61				
10	64QAM	25	12		15.62				
10	64QAM	25	25		15.53				
10	64QAM	50	0		15.59		16.5	0	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	15.44	15.52	15.49	16.5	0	
5	QPSK	1	12	15.27	15.33	15.29			
5	QPSK	1	24	15.38	15.41	15.45			
5	QPSK	12	0	15.48	15.52	15.58			
5	QPSK	12	7	15.39	15.45	15.37	16.5	0	
5	QPSK	12	13	15.31	15.37	15.36			
5	QPSK	25	0	15.38	15.42	15.42			
5	16QAM	1	0	15.58	15.60	15.62			
5	16QAM	1	12	15.38	15.45	15.34	16.5	0	
5	16QAM	1	24	15.28	15.34	15.30			
5	16QAM	12	0	15.61	15.63	15.51			
5	16QAM	12	7	15.38	15.43	15.45			
5	16QAM	12	13	15.42	15.42	15.38	16.5	0	
5	16QAM	25	0	15.26	15.34	15.34			
5	64QAM	1	0	15.32	15.49	15.37			
5	64QAM	1	12	15.30	15.45	15.37			
5	64QAM	1	24	15.30	15.41	15.33	16.5	0	
5	64QAM	12	0	15.38	15.45	15.47			
5	64QAM	12	7	15.28	15.40	15.42			
5	64QAM	12	13	15.35	15.36	15.39			
5	64QAM	25	0	15.39	15.47	15.47			



Band 2 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	QPSK	1	0	16.66	16.87	16.71	17.5	0						
20	QPSK	1	49	16.67	16.79	16.72								
20	QPSK	1	99	16.56	16.59	16.65								
20	QPSK	50	0	16.64	16.80	16.71								
20	QPSK	50	24	16.54	16.68	16.73	17.5	0						
20	QPSK	50	50	16.58	16.65	16.63								
20	QPSK	100	0	16.68	16.79	16.65								
20	16QAM	1	0	16.66	16.72	16.61								
20	16QAM	1	49	16.62	16.62	16.66	17.5	0						
20	16QAM	1	99	16.63	16.83	16.72								
20	16QAM	50	0	16.63	16.65	16.65								
20	16QAM	50	24	16.61	16.74	16.69								
20	16QAM	50	50	16.66	16.72	16.66	17.5	0						
20	16QAM	100	0	16.49	16.67	16.62								
20	64QAM	1	0	16.48	16.72	16.53								
20	64QAM	1	49	16.49	16.75	16.62								
20	64QAM	1	99	16.61	16.80	16.59	17.5	0						
20	64QAM	50	0	16.60	16.76	16.62								
20	64QAM	50	24	16.51	16.71	16.63								
20	64QAM	50	50	16.50	16.73	16.61								
20	64QAM	100	0	16.51	16.83	16.65	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
15	QPSK	1	0	16.61	16.82	16.69	17.5	0						
15	QPSK	1	37	16.50	16.77	16.68								
15	QPSK	1	74	16.51	16.57	16.62								
15	QPSK	36	0	16.58	16.76	16.64								
15	QPSK	36	20	16.47	16.61	16.70	17.5	0						
15	QPSK	36	39	16.53	16.62	16.58								
15	QPSK	75	0	16.64	16.76	16.61								
15	16QAM	1	0	16.61	16.66	16.56								
15	16QAM	1	37	16.57	16.56	16.63	17.5	0						
15	16QAM	1	74	16.56	16.77	16.65								
15	16QAM	36	0	16.58	16.62	16.61								
15	16QAM	36	20	16.56	16.67	16.62								
15	16QAM	36	39	16.62	16.66	16.59	17.5	0						
15	16QAM	75	0	16.44	16.64	16.54								
15	64QAM	1	0	16.58	16.75	16.58								
15	64QAM	1	37	16.61	16.71	16.63								
15	64QAM	1	74	16.49	16.79	16.68	17.5	0						
15	64QAM	36	0	16.53	16.69	16.54								
15	64QAM	36	20	16.62	16.73	16.67								
15	64QAM	36	39	16.57	16.78	16.68								
15	64QAM	75	0	16.50	16.72	16.62	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.61	16.80	16.65	17.5	0						
10	QPSK	1	25	16.52	16.76	16.69								
10	QPSK	1	49	16.51	16.52	16.58								
10	QPSK	25	0	16.61	16.77	16.66								
10	QPSK	25	12	16.49	16.60	16.68	17.5	0						
10	QPSK	25	25	16.52	16.62	16.57								
10	QPSK	50	0	16.65	16.71	16.59								
10	16QAM	1	0	16.58	16.64	16.54								
10	16QAM	1	25	16.58	16.59	16.62	17.5	0						
10	16QAM	1	49	16.61	16.77	16.69								
10	16QAM	25	0	16.59	16.58	16.62								
10	16QAM	25	12	16.57	16.71	16.62								
10	16QAM	25	25	16.63	16.65	16.62	17.5	0						
10	16QAM	50	0	16.47	16.63	16.60								
10	64QAM	1	0	16.56	16.76	16.62								
10	64QAM	1	25	16.50	16.65	16.59								
10	64QAM	1	49	16.56	16.85	16.62	17.5	0						
10	64QAM	25	0	16.55	16.76	16.53								
10	64QAM	25	12	16.56	16.80	16.68								
10	64QAM	25	25	16.50	16.75	16.65								
10	64QAM	50	0	16.59	16.86	16.62	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.63	16.82	16.68	17.5	0						
5	QPSK	1	12	16.49	16.72	16.69								
5	QPSK	1	24	16.52	16.54	16.58								
5	QPSK	12	0	16.56	16.72	16.67								
5	QPSK	12	7	16.47	16.62	16.68	17.5	0						
5	QPSK	12	13	16.50	16.60	16.60								
5	QPSK	25	0	16.63	16.75	16.62								
5	16QAM	1	0	16.62	16.65	16.59								
5	16QAM	1	12	16.58	16.56	16.59	17.5	0						
5	16QAM	1	24	16.58	16.77	16.65								
5	16QAM	12	0	16.61	16.59	16.58								
5	16QAM	12	7	16.59	16.68	16.65								
5	16QAM	12	13	16.63	16.65	16.60	17.5	0						
5	16QAM	25	0	16.42	16.59	16.60								
5	64QAM	1	0	16.61	16.77	16.67								
5	64QAM	1	12	16.60	16.73	16.62								
5	64QAM	1	24	16.57	16.71	16.69	17.5	0						
5	64QAM	12	0	16.58	16.83	16.60								
5	64QAM	12	7	16.53	16.79	16.61								
5	64QAM	12	13	16.50	16.75	16.66								
5	64QAM	25	0	16.55	16.85	16.64	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.61	16.82	16.67	17.5	0						
3	QPSK	1	8	16.53	16.77	16.69								
3	QPSK	1	14	16.48	16.56	16.60								
3	QPSK	8	0	16.56	16.77	16.66								
3	QPSK	8	4	16.48	16.65	16.71	17.5	0						
3	QPSK	8	7	16.54	16.61	16.56								
3	QPSK	15	0	16.62	16.73	16.62								
3	16QAM	1	0	16.61	16.66	16.56								
3	16QAM	1	8	16.60	16.59	16.59	17.5	0						
3	16QAM	1	14	16.61	16.76	16.65								
3	16QAM	8	0	16.59	16.60	16.58								
3	16QAM	8	4	16.57	16.67	16.66								
3	16QAM	8	7	16.58	16.69	16.61	17.5	0						
3	16QAM	15	0	16.44	16.63	16.57								
3	64QAM	1	0	16.54	16.82	16.58								
3	64QAM	1	8	16.51	16.74	16.55								
3	64QAM	1	14	16.49	16.76	16.56	17.5	0						
3	64QAM	8	0	16.51	16.74	16.66								
3	64QAM	8	4	16.61	16.79	16.62								
3	64QAM	8	7	16.48	16.76	16.62								
3	64QAM	15	0	16.62	16.71	16.60	Tune-up limit (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.59	16.80	16.66	17.5	0						
1.4	QPSK	1	3	16.51	16.73	16.70								
1.4	QPSK	1	5	16.48	16.51	16.60								
1.4	QPSK	3	0	16.57	16.78	16.66								
1.4	QPSK	3	1	16.49	16.63	16.68	17.5	0						
1.4	QPSK	3	3	16.55	16.58	16.56								
1.4	QPSK	6	0	16.65	16.75	16.60								
1.4	16QAM	1	0	16.58	16.65	16.57								
1.4	16QAM	1	3	16.56	16.54	16.64	17.5	0						
1.4	16QAM	1	5	16.60	16.76	16.68								
1.4	16QAM	3	0	16.61	16.61	16.58								
1.4	16QAM	3	1	16.56	16.68	16.66								
1.4	16QAM	3	3	16.59	16.68	16.60	17.5	0						
1.4	16QAM	6	0	16.42	16.61	16.58								
1.4	64QAM	1	0	16.56	16.76	16.57								
1.4	64QAM	1	3	16.49	16.77	16.64								
1.4	64QAM	1	5	16.49	16.77	16.64	17.5	0						
1.4	64QAM	3	0	16.56	16.77	16.67								
1.4	64QAM	3	1	16.61	16.84	16.61								
1.4	64QAM	3	3	16.59	16.72	16.52								
1.4	64QAM	6	0	16.57	16.71	16.68	17.5	0						



Band 7 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				20850	21100	21350	14.5	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	13.97	14.25	14.14			
20	QPSK	1	49	13.94	14.05	14.04			
20	QPSK	1	99	13.97	13.91	13.95	14.5 <th colspan="2" rowspan="4">0</th>	0	
20	QPSK	50	0	14.05	14.20	14.12			
20	QPSK	50	24	14.02	14.00	14.08			
20	QPSK	50	50	14.00	13.94	14.04			
20	QPSK	100	0	13.92	14.01	14.02	14.5 <th colspan="2" rowspan="4">0</th>	0	
20	16QAM	1	0	14.00	14.23	14.11			
20	16QAM	1	49	13.93	14.10	14.02			
20	16QAM	1	99	13.96	13.95	13.97			
20	16QAM	50	0	13.95	14.21	14.10	14.5 <th colspan="2" rowspan="4">0</th>	0	
20	16QAM	50	24	13.99	14.10	14.04			
20	16QAM	50	50	13.92	13.96	14.01			
20	16QAM	100	0	13.97	14.03	14.04			
20	64QAM	1	0	13.90	14.22	13.96	14.5 <th colspan="2" rowspan="4">0</th>	0	
20	64QAM	1	49	13.91	14.23	14.08			
20	64QAM	1	99	13.88	14.18	14.11			
20	64QAM	50	0	13.95	14.20	14.08			
20	64QAM	50	24	13.91	14.21	14.12	14.5 <th colspan="2" rowspan="3">0</th>	0	
20	64QAM	50	50	13.96	14.14	14.01			
20	64QAM	100	0	13.84	14.09	14.08			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	14.5	0	
15	QPSK	1	0	13.89	14.20	14.12			
15	QPSK	1	37	13.86	13.98	14.00			
15	QPSK	1	74	13.87	13.84	13.87			
15	QPSK	36	0	13.96	14.13	14.02	14.5 <th colspan="2" rowspan="4">0</th>	0	
15	QPSK	36	20	13.90	13.93	14.06			
15	QPSK	36	39	13.91	13.88	13.98			
15	QPSK	75	0	13.82	13.98	13.94			
15	16QAM	1	0	13.91	14.13	14.01	14.5 <th colspan="2" rowspan="4">0</th>	0	
15	16QAM	1	37	13.84	14.02	13.96			
15	16QAM	1	74	13.91	13.92	13.92			
15	16QAM	36	0	13.88	14.17	14.03			
15	16QAM	36	20	13.91	14.06	13.96	14.5 <th colspan="2" rowspan="4">0</th>	0	
15	16QAM	36	39	13.97	13.88	13.95			
15	16QAM	75	0	13.88	14.00	14.00			
15	64QAM	1	0	13.81	14.12	14.03			
15	64QAM	1	37	13.85	14.13	13.98	14.5 <th colspan="2" rowspan="4">0</th>	0	
15	64QAM	1	74	13.80	14.22	14.11			
15	64QAM	36	0	13.88	14.11	13.99			
15	64QAM	36	20	13.93	14.17	14.04			
15	64QAM	36	39	13.78	14.24	14.01	14.5 <th colspan="2" rowspan="2">0</th>	0	
15	64QAM	75	0	13.92	14.11	14.09			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	14.5	0	
10	QPSK	1	0	13.90	14.18	14.07			
10	QPSK	1	25	13.86	13.97	14.01			
10	QPSK	1	49	13.91	13.84	13.86			
10	QPSK	25	0	14.02	14.11	14.08	14.5 <th colspan="2" rowspan="4">0</th>	0	
10	QPSK	25	12	13.99	13.90	14.03			
10	QPSK	25	25	13.96	13.86	14.01			
10	QPSK	50	0	13.87	13.99	13.96			
10	16QAM	1	0	13.93	14.15	14.03	14.5 <th colspan="2" rowspan="4">0</th>	0	
10	16QAM	1	25	13.88	14.02	13.97			
10	16QAM	1	49	13.93	13.90	13.90			
10	16QAM	25	0	13.90	14.13	14.02			
10	16QAM	25	12	13.91	14.02	13.98	14.5 <th colspan="2" rowspan="4">0</th>	0	
10	16QAM	25	25	13.87	13.89	13.99			
10	16QAM	50	0	13.94	13.97	13.98			
10	64QAM	1	0	13.81	14.07	14.08			
10	64QAM	1	25	13.97	14.15	14.05	14.5 <th colspan="2" rowspan="4">0</th>	0	
10	64QAM	1	49	13.88	14.12	14.04			
10	64QAM	25	0	13.88	14.11	14.11			
10	64QAM	25	12	13.83	14.10	13.98			
10	64QAM	25	25	13.81	14.13	13.96	14.5 <th colspan="2" rowspan="2">0</th>	0	
10	64QAM	50	0	13.88	14.19	13.97			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	14.5	0	
5	QPSK	1	0	13.87	14.21	14.07			
5	QPSK	1	12	13.92	13.98	14.01			
5	QPSK	1	24	13.93	13.87	13.85			
5	QPSK	12	0	13.98	14.15	14.03	14.5 <th colspan="2" rowspan="4">0</th>	0	
5	QPSK	12	7	13.94	13.97	14.00			
5	QPSK	12	13	13.95	13.86	13.97			
5	QPSK	25	0	13.87	13.92	13.98			
5	16QAM	1	0	13.94	14.17	14.05	14.5 <th colspan="2" rowspan="4">0</th>	0	
5	16QAM	1	12	13.87	14.05	13.95			
5	16QAM	1	24	13.86	13.92	13.94			
5	16QAM	12	0	13.98	14.14	14.06			
5	16QAM	12	7	13.93	14.02	13.95	14.5 <th colspan="2" rowspan="4">0</th>	0	
5	16QAM	12	13	13.82	13.94	13.96			
5	16QAM	25	0	13.88	13.98	13.97			
5	64QAM	1	0	13.85	14.17	14.05			
5	64QAM	1	12	13.82	14.18	14.06	14.5 <th colspan="2" rowspan="4">0</th>	0	
5	64QAM	1	24	13.92	14.16	14.09			
5	64QAM	12	0	13.91	14.08	13.98			
5	64QAM	12	7	13.79	14.24	14.09			
5	64QAM	12	13	13.70	14.09	14.01	14.5 <th colspan="2" rowspan="2">0</th>	0	
5	64QAM	25	0	13.84	14.20	14.12			

Band 12 Ant 1																						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F req.	Power Middle Ch./F req.	Power High Ch./F req.	Tune-up limit (dBm)	MPR (dB)														
Channel				23060	23095	23130	23	0														
Frequency (MHz)				704	707.5	711																
10	QPSK	1	0	22.21	22.63	22.32																
10	QPSK	1	25	22.20	22.34	22.29																
10	QPSK	1	49	22.15	22.16	22.19																
10	QPSK	25	0	22.43	22.32	22.33																
10	QPSK	25	12	22.27	22.34	22.13	23	0														
10	QPSK	25	25	22.34	22.23	22.24																
10	QPSK	50	0	22.16	22.46	22.31																
10	16QAM	1	0	22.44	22.45	22.32																
10	16QAM	1	25	22.45	22.38	22.44	23	0														
10	16QAM	1	49	22.25	22.35	22.31																
10	16QAM	25	0	21.31	21.47	21.42																
10	16QAM	25	12	21.21	21.32	21.30																
10	16QAM	25	25	21.19	21.35	21.26	22	1														
10	16QAM	50	0	21.13	21.40	21.16																
10	64QAM	1	0	21.25	21.57	21.40																
10	64QAM	1	25	21.23	21.68	21.24																
10	64QAM	1	49	21.22	21.67	21.27	22	1														
10	64QAM	25	0	20.20	20.66	20.29																
10	64QAM	25	12	20.23	20.58	20.27																
10	64QAM	25	25	20.26	20.57	20.38																
10	64QAM	50	0	20.24	20.60	20.33	21	2														
Channel				23035	23095	23155																
Frequency (MHz)				701.5	707.5	713.5																
5	QPSK	1	0	22.26	22.38	22.30				23	0											
				22.20	22.28	22.27																
				22.12	22.19	22.15																
				22.35	22.28	22.30																
				22.19	22.21	21.99																
				22.21	22.11	22.21																
5	QPSK	25	0	22.11	22.43	22.22	23	0														
				16QAM	1	0				22.37	22.40	22.21										
										16QAM	1	22	22.30	22.37								
												16QAM	1	24	22.11	22.35	22.23					
														16QAM	12	0	21.28	21.42	21.37			
																16QAM	12	7	21.08	21.21	21.13	
16QAM	12	13	21.08				21.17	21.13														
		16QAM	25	0	21.02	21.35	21.11															
				5	64QAM	1	0	21.19	21.59	21.36												
							5	64QAM	1	12	21.23	21.69	21.32									
										5	64QAM	1	24	21.22	21.59			21.27				
													5	64QAM	12	0	20.21	20.56	20.39			
5	64QAM															12	7	20.29	20.55	20.34		
		5	64QAM														12	13	20.23	20.56	20.34	
				5	64QAM	25												0	20.20	20.56	20.41	
							Channel											23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
							Frequency (MHz)				700.5	707.5						714.5				
							3	QPSK	1	0	22.27	22.38	22.34	23	0							
22.15	22.27										22.28											
22.18	22.20	22.21																				
22.36	22.20	22.28																				
22.23	22.26	22.21																				
22.22	22.17	22.09																				
3	QPSK	15	0	22.02	22.40	22.27	23	0														
				3	16QAM	1				8	22.38	22.43	22.27									
										3	16QAM	1	8	22.39	22.24	22.34						
													3	16QAM	1	14	22.13	22.28	22.27			
																3	16QAM	8	0	21.26	21.44	21.30
																			3	16QAM	8	4
3	16QAM	8	7				21.15	21.25	21.19													
			3	16QAM	15	0	21.02	21.33	21.13													
						3	84QAM	1	8	21.24	21.51	21.35										
									3	84QAM	1	8	21.17	21.56	21.31							
												3	84QAM	1	14	21.24	21.67	21.38				
															3	84QAM	8	0	20.18	20.62	20.26	
3	84QAM	8																4	20.18	20.57	20.33	
			3	84QAM	8													7	20.22	20.54	20.41	
						3	84QAM	15										0	20.19	20.67	20.40	
									Channel									23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
									Frequency (MHz)				699.7	707.5				715.3				
									1.4	QPSK	1	0	22.19	22.45	22.34	23	0					
3	22.19	22.29										22.27										
5	22.12	22.19	22.20																			
3	0	22.20	22.41	22.34																		
3	1	22.15	22.28	22.26																		
3	3	22.11	22.19	22.14																		
1.4	QPSK	6	0	22.37	22.26	22.28	23	0														
			1	0	22.24	22.25				22.08												
			1	3	22.27	22.12				22.11												
			1	5	22.05	22.39				22.27												
			3	0	22.38	22.38				22.22												
			3	1	22.36	22.29				22.40												
1.4	16QAM	3	3	22.18	22.32	22.26	22	1														
			6	0	21.18	21.43				21.29	22	1										
			1	0	21.30	21.70				21.36												
			1	3	21.20	21.56				21.27												
			1	5	21.24	21.54				21.38												
			3	0	21.26	21.58				21.36												
1.4	84QAM	3	1	21.21	21.65	21.29	22	1														
			3	3	21.22	21.61				21.37												
			6	0	20.17	20.64				20.29	21	2										

Band 14 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				23330			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				793					
10	QPSK	1	0		23.27		24	0	
10	QPSK	1	25		23.15				
10	QPSK	1	49		23.13				
10	QPSK	25	0		22.75				
10	QPSK	25	12		22.71		23.5	0.5	
10	QPSK	25	25		22.64				
10	QPSK	50	0		22.70				
10	16QAM	1	0		22.80				
10	16QAM	1	25		22.82		23.5	0.5	
10	16QAM	1	49		22.77				
10	16QAM	25	0		21.85				
10	16QAM	25	12		21.77				
10	16QAM	25	25		21.70		22.5	1.5	
10	16QAM	50	0		21.68				
10	64QAM	1	0		21.85				
10	64QAM	1	25		21.73				
10	64QAM	1	49		21.78		22.5	1.5	
10	64QAM	25	0		20.84				
10	64QAM	25	12		20.73				
10	64QAM	25	25		20.71				
10	64QAM	50	0		20.71		21.5	2.5	
Channel				23305	23330	23355			
Frequency (MHz)				790.5	793	795.5			
5	QPSK	1	0	23.20	23.23	23.24	24	0	
5	QPSK	1	12	23.15	23.21	23.23			
5	QPSK	1	24	23.10	23.10	23.10			
5	QPSK	12	0	22.84	22.82	22.74			
5	QPSK	12	7	22.72	22.73	22.76	23.5	0.5	
5	QPSK	12	13	22.67	22.68	22.66			
5	QPSK	25	0	22.70	22.76	22.69			
5	16QAM	1	0	22.89	22.81	22.81			
5	16QAM	1	12	22.80	22.73	22.83	23.5	0.5	
5	16QAM	1	24	22.78	22.78	22.72			
5	16QAM	12	0	21.76	21.82	21.78			
5	16QAM	12	7	21.73	21.75	21.76			
5	16QAM	12	13	21.79	21.75	21.79	22.5	1.5	
5	16QAM	25	0	21.69	21.75	21.74			
5	64QAM	1	0	21.66	21.71	21.80			
5	64QAM	1	12	21.64	21.74	21.70			
5	64QAM	1	24	21.77	21.69	21.71	22.5	1.5	
5	64QAM	12	0	20.77	20.73	20.72			
5	64QAM	12	7	20.75	20.79	20.77			
5	64QAM	12	13	20.77	20.69	20.72			
5	64QAM	25	0	20.66	20.70	20.66	21.5	2.5	

Band 25 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				26140	26340	26590			
Frequency (MHz)				1860	1880	1905			
20	QPSK	1	0	16.77	16.88	16.76	17.5	0	
20	QPSK	1	49	16.66	16.73	16.73			
20	QPSK	1	99	16.54	16.71	16.58			
20	QPSK	50	0	16.72	16.85	16.74	17.5	0	
20	QPSK	50	24	16.57	16.78	16.74			
20	QPSK	50	50	16.63	16.73	16.59			
20	QPSK	100	0	16.65	16.80	16.74	17.5	0	
20	16QAM	1	0	16.79	16.86	16.84			
20	16QAM	1	49	16.61	16.81	16.67			
20	16QAM	1	99	16.63	16.76	16.60	17.5	0	
20	16QAM	50	0	16.73	16.87	16.79			
20	16QAM	50	24	16.57	16.79	16.63			
20	16QAM	50	50	16.52	16.77	16.61	17.5	0	
20	16QAM	100	0	16.61	16.70	16.63			
20	64QAM	1	0	16.58	16.69	16.75			
20	64QAM	1	49	16.66	16.83	16.65	17.5	0	
20	64QAM	1	99	16.62	16.79	16.72			
20	64QAM	50	0	16.59	16.73	16.68			
20	64QAM	50	24	16.62	16.71	16.64	17.5	0	
20	64QAM	50	50	16.75	16.82	16.66			
20	64QAM	100	0	16.62	16.78	16.64			
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	16.68	16.83	16.72	17.5	0	
15	QPSK	1	37	16.49	16.71	16.68			
15	QPSK	1	74	16.46	16.67	16.52			
15	QPSK	36	0	16.64	16.81	16.64	17.5	0	
15	QPSK	36	20	16.49	16.71	16.72			
15	QPSK	36	39	16.56	16.69	16.49			
15	QPSK	75	0	16.56	16.77	16.66	17.5	0	
15	16QAM	1	0	16.71	16.81	16.82			
15	16QAM	1	37	16.58	16.74	16.58			
15	16QAM	1	74	16.53	16.72	16.56	17.5	0	
15	16QAM	36	0	16.69	16.82	16.74			
15	16QAM	36	20	16.52	16.74	16.55			
15	16QAM	36	39	16.48	16.72	16.56	17.5	0	
15	16QAM	75	0	16.55	16.65	16.58			
15	64QAM	1	0	16.69	16.78	16.73			
15	64QAM	1	37	16.74	16.85	16.72	17.5	0	
15	64QAM	1	74	16.61	16.77	16.67			
15	64QAM	36	0	16.65	16.72	16.70			
15	64QAM	36	20	16.64	16.85	16.74	17.5	0	
15	64QAM	36	39	16.71	16.85	16.74			
15	64QAM	75	0	16.63	16.62	16.69			
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	16.74	16.78	16.74	17.5	0	
10	QPSK	1	25	16.47	16.63	16.71			
10	QPSK	1	49	16.44	16.62	16.54			
10	QPSK	25	0	16.69	16.76	16.70	17.5	0	
10	QPSK	25	12	16.49	16.73	16.67			
10	QPSK	25	25	16.57	16.68	16.50			
10	QPSK	50	0	16.59	16.75	16.65	17.5	0	
10	16QAM	1	0	16.73	16.78	16.80			
10	16QAM	1	25	16.55	16.71	16.60			
10	16QAM	1	49	16.60	16.72	16.54	17.5	0	
10	16QAM	25	0	16.69	16.79	16.75			
10	16QAM	25	12	16.52	16.71	16.55			
10	16QAM	25	25	16.48	16.68	16.52	17.5	0	
10	16QAM	50	0	16.57	16.65	16.57			
10	64QAM	1	0	16.60	16.72	16.71			
10	64QAM	1	25	16.70	16.86	16.58	17.5	0	
10	64QAM	1	49	16.70	16.86	16.66			
10	64QAM	25	0	16.71	16.77	16.62			
10	64QAM	25	12	16.72	16.81	16.73	17.5	0	
10	64QAM	25	25	16.69	16.71	16.73			
10	64QAM	50	0	16.71	16.78	16.62			
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	16.67	16.80	16.66	17.5	0	
5	QPSK	1	12	16.52	16.66	16.66			
5	QPSK	1	24	16.51	16.63	16.48			
5	QPSK	12	0	16.64	16.77	16.65	17.5	0	
5	QPSK	12	7	16.50	16.68	16.71			
5	QPSK	12	13	16.55	16.68	16.50			
5	QPSK	25	0	16.62	16.77	16.70	17.5	0	
5	16QAM	1	0	16.74	16.82	16.78			
5	16QAM	1	12	16.52	16.72	16.63			
5	16QAM	1	24	16.59	16.69	16.56	17.5	0	
5	16QAM	12	0	16.68	16.80	16.76			
5	16QAM	12	7	16.52	16.69	16.60			
5	16QAM	12	13	16.45	16.75	16.55	17.5	0	
5	16QAM	25	0	16.55	16.63	16.55			
5	64QAM	1	0	16.74	16.72	16.62			
5	64QAM	1	12	16.64	16.69	16.70	17.5	0	
5	64QAM	1	24	16.76	16.72	16.70			
5	64QAM	12	0	16.73	16.79	16.67			
5	64QAM	12	7	16.60	16.80	16.63	17.5	0	
5	64QAM	12	13	16.60	16.76	16.63			
5	64QAM	25	0	16.64	16.74	16.62			
Channel				26065	26340	26675	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	16.68	16.79	16.71	17.5	0	
3	QPSK	1	8	16.48	16.68	16.49			
3	QPSK	1	14	16.47	16.64	16.69			
3	QPSK	8	0	16.66	16.80	16.66	17.5	0	
3	QPSK	8	4	16.50	16.70	16.68			
3	QPSK	8	7	16.56	16.66	16.55			
3	QPSK	15	0	16.59	16.71	16.69	17.5	0	
3	16QAM	1	0	16.72	16.76	16.80			
3	16QAM	1	8	16.57	16.71	16.65			
3	16QAM	1	14	16.60	16.72	16.55	17.5	0	
3	16QAM	8	0	16.65	16.77	16.71			
3	16QAM	8	4	16.52	16.70	16.59			
3	16QAM	8	7	16.67	16.67	16.58	17.5	0	
3	16QAM	15	0	16.57	16.67	16.57			
3	64QAM	1	0	16.58	16.78	16.70			
3	64QAM	1	8	16.70	16.78	16.74	17.5	0	
3	64QAM	1	14	16.70	16.74	16.58			
3	64QAM	8	0	16.66	16.78	16.65			
3	64QAM	8	4	16.75	16.80	16.74	17.5	0	
3	64QAM	8	7	16.61	16.75	16.74			
3	64QAM	15	0	16.75	16.85	16.66			
Channel				26047	26340	26633	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1914.3			
1.4	QPSK	1	0	16.72	16.82	16.70	17.5	0	
1.4	QPSK	1	3	16.50	16.70	16.65			
1.4	QPSK	1	5	16.51	16.66	16.55			
1.4	QPSK	3	0	16.68	16.63	16.68	17.5	0	
1.4	QPSK	3	1	16.53	16.76	16.66			
1.4	QPSK	3	3	16.57	16.71	16.54			
1.4	QPSK	6	0	16.58	16.72	16.70	17.5	0	
1.4	16QAM	1	0	16.77	16.84	16.75			
1.4	16QAM	1	3	16.57	16.71	16.60			
1.4	16QAM	1	5	16.59	16.73	16.58	17.5	0	
1.4	16QAM	3	0	16.70	16.83	16.71			
1.4	16QAM	3	1	16.50	16.73	16.56			
1.4	16QAM	3	3	16.48	16.67	16.59	17.5	0	
1.4	16QAM	6	0	16.52	16.62	16.57			
1.4	64QAM	1	0	16.75	16.81	16.72			
1.4	64QAM	1	3	16.73	16.82	16.60	17.5	0	
1.4	64QAM	1	5	16.71	16.83	16.64			
1.4	64QAM	3	0	16.60	16.73	16.62			
1.4	64QAM	3	1	16.60	16.71	16.72	17.5	0	
1.4	64QAM	3	3	16.73	16.84	16.70			
1.4	64QAM	6	0	16.58	16.70	16.72			

Band 66 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				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	16.13	16.16	16.06	16.5	0	
20	QPSK	1	49	15.96	16.13	16.05			
20	QPSK	1	99	15.91	16.00	15.92			
20	QPSK	50	0	16.12	16.11	16.02			
20	QPSK	50	24	15.92	16.07	15.98			
20	QPSK	50	50	15.96	16.07	15.96	16.5	0	
20	QPSK	100	0	15.95	16.10	16.02			
20	16QAM	1	0	15.90	16.08	15.96			
20	16QAM	1	49	15.94	16.00	15.92			
20	16QAM	1	99	16.11	16.15	16.01			
20	16QAM	50	0	15.98	16.04	16.00	16.5	0	
20	16QAM	50	24	16.06	16.13	16.02			
20	16QAM	50	50	15.93	16.04	16.01			
20	16QAM	100	0	15.94	15.99	15.97			
20	64QAM	1	0	15.96	16.10	15.94			
20	64QAM	1	49	15.94	16.10	15.99	16.5	0	
20	64QAM	1	99	15.97	16.07	15.97			
20	64QAM	50	0	16.04	16.11	16.01			
20	64QAM	50	24	15.94	15.99	16.03			
20	64QAM	50	50	16.01	16.06	15.93			
20	64QAM	100	0	15.99	16.09	15.94	16.5	0	
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.09	16.09	16.04	16.5	0	
15	QPSK	1	37	15.92	16.10	16.00			
15	QPSK	1	74	15.84	15.96	15.87			
15	QPSK	36	0	16.09	16.05	15.99			
15	QPSK	36	20	15.85	16.05	15.95			
15	QPSK	36	39	15.88	15.99	15.91	16.5	0	
15	QPSK	75	0	15.89	16.06	15.97			
15	16QAM	1	0	15.80	16.02	15.91			
15	16QAM	1	37	15.90	15.97	15.83			
15	16QAM	1	74	16.04	16.11	15.98			
15	16QAM	36	0	15.89	15.95	15.97	16.5	0	
15	16QAM	36	20	15.96	16.04	15.94			
15	16QAM	36	39	15.87	15.94	15.95			
15	16QAM	75	0	15.87	15.91	15.89			
15	64QAM	1	0	16.10	16.04	15.91			
15	64QAM	1	37	16.07	16.07	16.01	16.5	0	
15	64QAM	1	74	15.99	16.07	16.04			
15	64QAM	36	0	16.10	16.11	15.99			
15	64QAM	36	20	16.05	16.08	15.94			
15	64QAM	36	39	15.97	16.05	16.03			
15	64QAM	75	0	15.97	16.11	15.97	16.5	0	
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	16.10	16.07	16.01	16.5	0	
10	QPSK	1	25	15.93	16.07	16.00			
10	QPSK	1	49	15.83	15.94	15.86			
10	QPSK	25	0	16.09	16.04	15.93			
10	QPSK	25	12	15.90	16.00	15.92			
10	QPSK	25	25	15.90	15.98	15.87	16.5	0	
10	QPSK	50	0	15.92	16.04	15.93			
10	16QAM	1	0	15.82	16.04	15.89			
10	16QAM	1	25	15.90	15.92	15.90			
10	16QAM	1	49	16.05	16.06	15.96			
10	16QAM	25	0	15.91	15.97	15.93	16.5	0	
10	16QAM	25	12	15.96	16.10	15.96			
10	16QAM	25	25	15.85	16.01	15.94			
10	16QAM	50	0	15.89	15.93	15.90			
10	64QAM	1	0	16.10	16.11	15.91			
10	64QAM	1	25	16.03	16.06	15.98	16.5	0	
10	64QAM	1	49	16.05	16.01	15.88			
10	64QAM	25	0	16.11	16.06	15.92			
10	64QAM	25	12	16.10	16.13	16.01			
10	64QAM	25	25	16.01	16.04	15.93			
10	64QAM	50	0	16.04	16.09	16.01	16.5	0	
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	16.08	16.07	16.03	16.5	0	
5	QPSK	1	12	15.89	16.06	16.02			
5	QPSK	1	24	15.83	15.96	15.86			
5	QPSK	12	0	16.04	16.06	15.95			
5	QPSK	12	7	15.89	15.97	15.93			
5	QPSK	12	13	15.91	16.04	15.87	16.5	0	
5	QPSK	25	0	15.91	16.01	15.95			
5	16QAM	1	0	15.84	16.05	15.92			
5	16QAM	1	12	15.91	15.95	15.86			
5	16QAM	1	24	16.06	16.13	15.96			
5	16QAM	12	0	15.91	16.00	15.95	16.5	0	
5	16QAM	12	7	16.02	16.08	15.96			
5	16QAM	12	13	15.85	15.99	15.94			
5	16QAM	25	0	15.88	15.95	15.90			
5	64QAM	1	0	16.11	15.98	15.97			
5	64QAM	1	12	16.05	16.06	16.03	16.5	0	
5	64QAM	1	24	16.07	16.07	16.01			
5	64QAM	12	0	16.06	16.01	15.94			
5	64QAM	12	7	15.99	15.97	15.99			
5	64QAM	12	13	16.09	16.00	15.98			
5	64QAM	25	0	16.10	16.07	15.96	16.5	0	
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	16.06	16.14	15.96	16.5	0	
3	QPSK	1	8	15.91	16.08	16.01			
3	QPSK	1	14	15.83	15.93	15.84			
3	QPSK	8	0	16.07	16.06	15.94			
3	QPSK	8	4	15.84	16.01	15.91			
3	QPSK	8	7	15.92	15.98	15.93	16.5	0	
3	QPSK	15	0	15.86	16.06	15.98			
3	16QAM	1	0	15.81	16.05	15.89			
3	16QAM	1	8	15.86	15.94	15.84			
3	16QAM	1	14	16.07	16.08	15.94			
3	16QAM	8	0	15.91	15.98	15.93	16.5	0	
3	16QAM	8	4	16.02	16.07	15.93			
3	16QAM	8	7	15.84	15.95	15.96			
3	16QAM	15	0	15.87	15.93	15.90			
3	64QAM	1	0	15.98	16.10	16.05			
3	64QAM	1	8	16.00	16.08	15.97	16.5	0	
3	64QAM	1	14	16.12	16.07	15.89			
3	64QAM	8	0	16.12	15.98	16.02			
3	64QAM	8	4	16.11	15.97	15.96			
3	64QAM	8	7	16.05	16.07	15.91			
3	64QAM	15	0	16.06	16.02	16.00	16.5	0	
Channel				131979	132322	132665			
Frequency (MHz)				1710.7	1745	1773.3			
1.4	QPSK	1	0	16.05	16.11	16.00	16.5	0	
1.4	QPSK	1	3	15.86	16.05	15.99			
1.4	QPSK	1	5	15.86	15.96	15.85			
1.4	QPSK	3	0	16.04	16.01	15.92			
1.4	QPSK	3	1	15.84	16.05	15.95			
1.4	QPSK	3	3	15.90	16.05	15.88	16.5	0	
1.4	QPSK	6	0	15.85	16.07	15.93			
1.4	16QAM	1	0	15.80	16.03	15.90			
1.4	16QAM	1	3	15.92	15.91	15.84			
1.4	16QAM	1	5	16.09	16.06	15.98			
1.4	16QAM	3	0	15.92	16.00	15.94	16.5	0	
1.4	16QAM	3	1	15.98	16.09	16.00			
1.4	16QAM	3	3	15.85	16.01	15.97			
1.4	16QAM	6	0	15.89	15.97	15.94			
1.4	64QAM	1	0	15.97	16.00	16.03	16.5	0	
1.4	64QAM	1	3	16.11	16.03	15.98			
1.4	64QAM	1	5	16.10	16.05	16.02			
1.4	64QAM	3	0	16.09	16.07	15.98			
1.4	64QAM	3	1	16.03	16.11	16.00			
1.4	64QAM	3	3	16.12	16.09	15.91	16.5	0	
1.4	64QAM	6	0	16.07	15.97	15.94			

Band 38 Ant 1

Band 41 HPUE Ant 1

Band 48 Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	14.97	15.22	15.00	14.98	16	0
20	QPSK	1	49	15.03	15.01	14.93	15.11		
20	QPSK	1	99	14.97	14.89	14.86	15.18		
20	QPSK	50	0	15.13	15.19	14.90	15.10		
20	QPSK	50	24	15.00	15.04	14.84	14.92	16	0
20	QPSK	50	50	15.03	15.08	14.86	14.97		
20	QPSK	100	0	15.06	15.15	15.01	15.10		
20	16QAM	1	0	14.97	15.02	14.74	14.96		
20	16QAM	1	49	14.98	15.01	14.84	15.19	16	0
20	16QAM	1	99	15.01	15.05	15.06	15.12		
20	16QAM	50	0	15.07	15.16	14.81	15.01		
20	16QAM	50	24	14.88	15.08	14.95	14.96		
20	16QAM	50	50	15.07	15.10	15.11	15.19	16	0
20	16QAM	100	0	15.08	15.04	14.87	14.89		
20	64QAM	1	0	14.81	15.10	14.84	14.83		
20	64QAM	1	49	14.86	15.16	14.83	14.94		
20	64QAM	1	99	14.79	15.05	14.83	14.91	16	0
20	64QAM	50	0	14.85	15.18	14.92	14.91		
20	64QAM	50	24	14.89	15.19	14.91	14.81		
20	64QAM	50	50	14.92	15.12	14.94	14.83		
20	64QAM	100	0	14.86	15.17	14.85	14.82		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	14.82	15.10	15.00	14.85	16	0
15	QPSK	1	37	14.97	14.95	14.88	14.93		
15	QPSK	1	74	14.82	14.72	14.76	15.09		
15	QPSK	36	0	14.96	15.19	14.72	15.01		
15	QPSK	36	20	14.79	14.98	14.71	14.72	16	0
15	QPSK	36	39	14.83	14.97	14.75	14.84		
15	QPSK	75	0	15.04	15.01	14.92	14.91		
15	16QAM	1	0	14.92	14.83	14.71	14.80		
15	16QAM	1	37	14.96	14.99	14.72	15.08	16	0
15	16QAM	1	74	14.81	15.02	14.84	15.08		
15	16QAM	36	0	14.85	15.10	14.71	14.93		
15	16QAM	36	20	14.77	14.97	14.89	14.90		
15	16QAM	36	39	14.99	14.93	14.92	15.01	16	0
15	16QAM	75	0	14.96	14.96	14.78	14.71		
15	64QAM	1	0	14.87	15.10	14.95	14.88		
15	64QAM	1	37	14.84	15.18	14.86	14.80		
15	64QAM	1	74	14.79	15.16	14.95	14.85	16	0
15	64QAM	36	0	14.84	15.07	14.88	14.95		
15	64QAM	36	20	14.92	15.16	14.90	14.82		
15	64QAM	36	39	14.80	15.15	14.96	14.97		
15	64QAM	75	0	14.78	15.06	14.84	14.90		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	14.82	15.03	14.89	14.91	16	0
10	QPSK	1	25	14.86	14.91	14.81	14.97		
10	QPSK	1	49	14.98	14.75	14.73	14.98		
10	QPSK	25	0	15.11	15.17	14.86	15.01		
10	QPSK	25	12	14.89	15.00	14.75	14.93	16	0
10	QPSK	25	25	14.91	15.09	14.72	14.89		
10	QPSK	50	0	14.87	15.09	14.98	14.93		
10	16QAM	1	0	14.81	14.86	14.75	14.80		
10	16QAM	1	25	14.84	14.91	14.66	15.10	16	0
10	16QAM	1	49	14.85	15.00	15.01	14.93		
10	16QAM	25	0	15.09	15.12	14.82	15.03		
10	16QAM	25	12	14.87	15.09	14.84	14.76		
10	16QAM	25	25	14.85	15.02	15.05	15.01	16	0
10	16QAM	50	0	15.08	14.90	14.70	14.72		
10	64QAM	1	0	14.94	15.17	14.86	14.87		
10	64QAM	1	25	14.83	15.15	14.95	14.81		
10	64QAM	1	49	14.96	15.19	14.97	14.85	16	0
10	64QAM	25	0	14.87	15.20	14.90	14.81		
10	64QAM	25	12	14.82	15.16	14.95	14.92		
10	64QAM	25	25	14.82	15.15	14.93	14.84		
10	64QAM	50	0	14.90	15.08	14.95	14.88		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	14.97	15.14	14.93	14.80	16	0
5	QPSK	1	12	14.83	15.00	14.90	15.05		
5	QPSK	1	24	14.91	14.84	14.80	15.06		
5	QPSK	12	0	14.98	14.98	14.75	14.93		
5	QPSK	12	7	14.99	15.02	14.65	14.79	16	0
5	QPSK	12	13	14.96	14.98	14.80	14.98		
5	QPSK	25	0	14.93	15.12	14.91	14.99		
5	16QAM	1	0	14.86	14.83	14.60	14.92		
5	16QAM	1	12	14.86	14.94	14.74	15.10	16	0
5	16QAM	1	24	14.82	14.90	14.94	15.02		
5	16QAM	12	0	15.07	15.01	14.72	14.89		
5	16QAM	12	7	14.74	15.07	14.84	14.75		
5	16QAM	12	13	14.96	15.02	15.01	15.01	16	0
5	16QAM	25	0	15.09	14.88	14.71	14.69		
5	64QAM	1	0	14.85	15.07	14.88	14.93		
5	64QAM	1	12	14.87	15.06	14.98	14.88		
5	64QAM	1	24	14.89	15.13	14.87	14.83	16	0
5	64QAM	12	0	14.79	15.10	14.85	14.82		
5	64QAM	12	7	14.79	15.10	14.83	14.93		
5	64QAM	12	13	14.95	15.13	14.84	14.80		
5	64QAM	25	0	14.78	15.17	14.82	14.86		
Channel				55240	55815	56170	56715		
Frequency (MHz)				3550	3607.5	3643	3697.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	14.97	15.14	14.93	14.80	16	0
5	QPSK	1	12	14.83	15.00	14.90	15.05		
5	QPSK	1	24	14.91	14.84	14.80	15.06		
5	QPSK	12	0	14.98	14.98	14.75	14.93		
5	QPSK	12	7	14.99	15.02	14.65	14.79	16	0
5	QPSK	12	13	14.96	14.98	14.80	14.98		
5	QPSK	25	0	14.93	15.12	14.91	14.99		
5	16QAM	1	0	14.86	14.83	14.60	14.92		
5	16QAM	1	12	14.86	14.94	14.74	15.10	16	0
5	16QAM	1	24	14.82	14.90	14.94	15.02		
5	16QAM	12	0	15.07	15.01	14.72	14.89		
5	16QAM	12	7	14.74	15.07	14.84	14.75		
5	16QAM	12	13	14.96	15.02	15.01	15.01	16	0
5	16QAM	25	0	15.09	14.88	14.71	14.69		
5	64QAM	1	0	14.85	15.07	14.88	14.93		
5	64QAM	1	12	14.87	15.06	14.98	14.88		
5	64QAM	1	24	14.89	15.13	14.87	14.83	16	0
5	64QAM	12	0	14.79	15.10	14.85	14.82		
5	64QAM	12	7	14.79	15.10	14.83	14.93		
5	64QAM	12	13	14.95	15.13	14.84	14.80		
5	64QAM	25	0	14.78	15.17	14.82	14.86		

Band 30 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				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		17.62		18.5	0
10	QPSK	1	25		17.36			
10	QPSK	1	49		17.46			
10	QPSK	25	0		17.49			
10	QPSK	25	12		17.41		18.5	0
10	QPSK	25	25		17.39			
10	QPSK	50	0		17.36			
10	16QAM	1	0		17.38			
10	16QAM	1	25		17.37		18.5	0
10	16QAM	1	49		17.28			
10	16QAM	25	0		17.44			
10	16QAM	25	12		17.36			
10	16QAM	25	25		17.40		18.5	0
10	16QAM	50	0		17.33			
10	64QAM	1	0		17.55			
10	64QAM	1	25		17.60			
10	64QAM	1	49		17.59		18.5	0
10	64QAM	25	0		17.46			
10	64QAM	25	12		17.49			
10	64QAM	25	25		17.50			
10	64QAM	50	0		17.47		18.5	0
Channel				27685	27710	27735		
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	17.30	17.47	17.39	18.5	0
5	QPSK	1	12	17.16	17.30	17.22		
5	QPSK	1	24	17.28	17.27	17.29		
5	QPSK	12	0	17.37	17.36	17.48		
5	QPSK	12	7	17.27	17.37	17.35	18.5	0
5	QPSK	12	13	17.25	17.31	17.29		
5	QPSK	25	0	17.23	17.24	17.32		
5	16QAM	1	0	17.43	17.44	17.51		
5	16QAM	1	12	17.35	17.30	17.32	18.5	0
5	16QAM	1	24	17.12	17.23	17.22		
5	16QAM	12	0	17.53	17.53	17.48		
5	16QAM	12	7	17.23	17.38	17.28		
5	16QAM	12	13	17.24	17.37	17.33	18.5	0
5	16QAM	25	0	17.20	17.23	17.23		
5	64QAM	1	0	17.15	17.41	17.20		
5	64QAM	1	12	17.24	17.30	17.31		
5	64QAM	1	24	17.25	17.36	17.31	18.5	0
5	64QAM	12	0	17.16	17.45	17.32		
5	64QAM	12	7	17.17	17.44	17.35		
5	64QAM	12	13	17.20	17.39	17.32		
5	64QAM	25	0	17.14	17.43	17.22	18.5	0

Full&Default Power Mode ENDC

Band 2 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				18700	18900	19100	21	0	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	19.99	20.22	20.05			
20	QPSK	1	49	19.96	20.20	19.95			
20	QPSK	50	0	19.76	19.93	20.00	21	0	
20	QPSK	50	24	19.98	20.02	19.94			
20	QPSK	50	50	19.96	20.02	20.08			
20	QPSK	100	0	19.97	20.04	20.01			
20	16QAM	1	0	19.89	20.01	19.96	21	0	
20	16QAM	1	49	19.88	19.86	19.94			
20	16QAM	1	99	19.93	20.08	20.05			
20	16QAM	50	0	20.06	19.97	19.95			
20	16QAM	50	24	19.82	19.96	19.88	21	0	
20	16QAM	50	50	19.98	19.98	20.02			
20	16QAM	100	0	19.75	20.05	19.92			
20	64QAM	1	0	19.93	20.10	19.98			
20	64QAM	1	49	19.85	20.05	19.95	21	0	
20	64QAM	1	99	19.84	20.08	19.92			
20	64QAM	50	0	19.94	20.04	19.89			
20	64QAM	50	24	19.97	20.07	19.91			
20	64QAM	50	50	19.96	20.12	19.91	21	0	
20	64QAM	100	0	19.89	20.09	19.96			
Channel				1867.5	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.92	20.15	20.00	21	0	
15	QPSK	1	37	19.88	20.13	19.91			
15	QPSK	1	74	19.72	19.88	19.89			
15	QPSK	36	0	19.84	20.15	19.86			
15	QPSK	36	20	19.94	20.00	19.98	21	0	
15	QPSK	36	39	19.79	19.87	19.81			
15	QPSK	75	0	19.90	19.90	19.92			
15	16QAM	1	0	19.77	19.93	19.91			
15	16QAM	1	37	19.85	19.78	19.85	21	0	
15	16QAM	1	74	19.80	19.97	19.97			
15	16QAM	36	0	19.93	19.86	19.90			
15	16QAM	36	20	19.74	19.83	19.80			
15	16QAM	36	39	19.88	19.91	19.88	21	0	
15	16QAM	75	0	19.70	20.01	19.82			
15	64QAM	1	0	19.80	20.07	19.96			
15	64QAM	1	37	19.91	20.09	19.86			
15	64QAM	1	74	19.86	20.19	20.03	21	0	
15	64QAM	36	0	19.95	20.17	20.01			
15	64QAM	36	20	19.84	20.10	19.87			
15	64QAM	36	39	19.95	20.19	19.89			
15	64QAM	75	0	19.90	20.20	20.01	21	0	
Channel				18650	18900	19150			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	19.92	20.15	19.92	21	0	
10	QPSK	1	25	19.89	20.08	19.91			
10	QPSK	1	49	19.72	19.80	19.86			
10	QPSK	25	0	19.87	20.16	19.92			
10	QPSK	25	12	19.93	19.93	20.06	21	0	
10	QPSK	25	25	19.86	19.86	19.79			
10	QPSK	50	0	19.91	19.91	19.97			
10	16QAM	1	0	19.85	19.93	19.87			
10	16QAM	1	25	19.80	19.83	19.84	21	0	
10	16QAM	1	49	19.86	20.00	19.98			
10	16QAM	25	0	19.93	19.91	19.90			
10	16QAM	25	12	19.75	19.92	19.84			
10	16QAM	25	25	19.91	19.86	19.90	21	0	
10	64QAM	1	0	19.95	20.17	20.02			
10	64QAM	1	25	19.84	20.19	19.96			
10	64QAM	1	49	19.97	20.12	19.99			
10	64QAM	25	0	19.97	20.08	19.96	21	0	
10	64QAM	25	12	19.89	20.07	19.86			
10	64QAM	25	25	19.88	20.06	19.97			
10	64QAM	50	0	19.96	20.03	19.88			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	21 <th colspan="2" rowspan="3">0</th>	0	
5	QPSK	1	0	19.89	20.09	19.94			
5	QPSK	1	12	19.90	20.15	19.92			
5	QPSK	1	24	19.72	19.90	19.89	21	0	
5	QPSK	12	0	19.77	20.18	19.85			
5	QPSK	12	7	19.85	19.94	20.01			
5	QPSK	12	13	19.81	19.89	19.79			
5	QPSK	25	0	19.95	19.92	19.97	21	0	
5	16QAM	1	0	19.75	19.94	19.86			
5	16QAM	1	12	19.80	19.80	19.89			
5	16QAM	1	24	19.89	19.96	19.96			
5	16QAM	12	0	20.03	19.87	19.88	21	0	
5	16QAM	12	7	19.79	19.90	19.83			
5	16QAM	12	13	19.87	19.92	19.96			
5	16QAM	25	0	19.73	19.97	19.87			
5	64QAM	1	0	19.89	20.05	20.02	21	0	
5	64QAM	1	12	19.83	20.05	19.89			
5	64QAM	1	24	19.82	20.15	19.93			
5	64QAM	12	0	19.91	20.11	19.88			
5	64QAM	12	7	19.88	20.15	19.95	21	0	
5	64QAM	12	13	19.88	20.17	19.96			
5	64QAM	25	0	19.89	20.05	19.91			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5	21 <th colspan="2" rowspan="3">0</th>	0	
3	QPSK	1	0	19.94	20.09	19.97			
3	QPSK	1	8	19.91	20.08	19.83			
3	QPSK	1	14	19.71	19.79	19.98	21	0	
3	QPSK	8	0	19.83	20.17	19.80			
3	QPSK	8	4	19.88	19.89	20.06			
3	QPSK	8	7	19.83	19.92	19.84			
3	QPSK	15	0	19.91	19.93	19.89	21	0	
3	16QAM	1	0	19.77	19.92	19.86			
3	16QAM	1	8	19.84	19.74	19.88			
3	16QAM	1	14	19.82	19.99	19.94			
3	16QAM	8	0	19.94	19.94	19.92	21	0	
3	16QAM	8	4	19.79	19.86	19.85			
3	16QAM	8	7	19.94	19.92	19.96			
3	16QAM	15	0	19.87	19.96	19.87			
3	64QAM	1	0	19.82	20.06	19.96	21	0	
3	64QAM	1	8	19.80	20.17	20.02			
3	64QAM	1	14	19.96	20.07	19.89			
3	64QAM	8	0	19.84	20.17	19.96			
3	64QAM	8	4	19.89	20.11	19.91	21	0	
3	64QAM	8	7	19.92	20.21	19.95			
3	64QAM	15	0	19.91	20.11	19.94			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1909.3	21 <th colspan="2" rowspan="3">0</th>	0	
1.4	QPSK	1	0	19.93	20.15	19.98			
1.4	QPSK	1	3	19.87	20.12	19.84			
1.4	QPSK	1	5	19.70	19.84	19.93	21	0	
1.4	QPSK	3	0	19.79	20.15	19.85			
1.4	QPSK	3	1	19.91	19.90	20.04			
1.4	QPSK	3	3	19.88	19.95	19.82			
1.4	QPSK	6	0	19.92	19.95	19.96	21	0	
1.4	16QAM	1	0	19.78	19.89	19.86			
1.4	16QAM	1	3	19.80	19.75	19.86			
1.4	16QAM	1	5	19.90	19.95	19.92			
1.4	16QAM	3	0	19.99	19.94	19.90	21	0	
1.4	16QAM	3	1	19.73	19.94	19.79			
1.4	16QAM	3	3	19.93	19.90	19.93			
1.4	16QAM	6	0	19.92	20.01	19.88			
1.4	64QAM	1	0	19.91	20.17	19.97	21	0	
1.4	64QAM	1	3	19.82	20.02	20.02			
1.4	64QAM	1	5	19.91	20.10	20.00			
1.4	64QAM	3	0	19.96	20.02	19.85			
1.4	64QAM	3	1	19.82	20.20	20.03	21	0	
1.4	64QAM	3	3	19.95	20.19	19.89			
1.4	64QAM	6	0	19.96	20.17	20.04			
1.4	64QAM	6	0	19.96	20.17	20.04			

Reduced Power Mode for Receive on ENDC

Band 2 Ant 1									
RF (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch / Freq 1800	Power Lvl Ch / Freq 1850	Power Lvl Ch / Freq 1900	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.99	20.22	20.05			
20	QPSK	1	49	19.96	20.20	19.95	21	0	
20	QPSK	1	99	19.76	19.99	20.00			
20	QPSK	50	0	19.91	20.21	19.94			
20	QPSK	50	24	19.96	20.02	20.08	21	0	
20	QPSK	50	50	19.91	19.97	19.89			
20	QPSK	100	0	19.97	20.00	20.01			
20	16QAM	1	0	19.89	20.01	19.98			
20	16QAM	1	49	19.88	19.86	19.94	21	0	
20	16QAM	1	99	19.83	20.08	20.02			
20	16QAM	50	0	20.05	19.97	19.97			
20	16QAM	50	24	19.82	19.96	19.88	21	0	
20	16QAM	50	50	19.98	19.98	20.02			
20	16QAM	100	0	19.75	20.00	19.92			
20	8QAM	1	0	19.93	20.10	19.98			
20	8QAM	1	49	19.85	20.05	19.95	21	0	
20	8QAM	1	99	19.84	20.08	19.92			
20	8QAM	50	0	19.94	20.00	19.99			
20	8QAM	50	24	19.97	20.07	19.91	21	0	
20	8QAM	50	50	19.96	20.12	19.91			
20	8QAM	100	0	19.80	19.90	19.96			
Channel									
Frequency (MHz)									
19	QPSK	1	0	19.92	20.15	20.00			
19	QPSK	1	37	19.86	20.13	19.89	21	0	
19	QPSK	1	74	19.72	19.88	19.89			
19	QPSK	36	0	19.84	20.15	19.86			
19	QPSK	36	20	19.94	20.00	19.98	21	0	
19	QPSK	36	39	19.79	19.87	19.91			
19	QPSK	75	0	19.90	19.90	19.92			
19	16QAM	1	0	19.77	19.93	19.91			
19	16QAM	1	37	19.85	19.75	19.89	21	0	
19	16QAM	1	74	19.80	19.97	19.97			
19	16QAM	36	0	19.93	19.88	19.90			
19	16QAM	36	20	19.74	19.83	19.80	21	0	
19	16QAM	36	39	19.86	19.91	19.98			
19	16QAM	75	0	19.70	20.01	19.92			
19	8QAM	1	0	19.80	20.07	19.96			
19	8QAM	1	37	19.80	20.09	19.86	21	0	
19	8QAM	1	74	19.86	20.10	20.00			
19	8QAM	36	0	19.95	20.17	20.01			
19	8QAM	36	20	19.84	20.10	19.87	21	0	
19	8QAM	36	39	19.80	20.09	19.95			
19	8QAM	75	0	19.90	20.20	20.01			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.92	20.15	20.00			
10	QPSK	1	25	19.89	20.09	19.91	21	0	
10	QPSK	1	49	19.72	19.80	19.86			
10	QPSK	25	0	19.87	20.15	19.92			
10	QPSK	25	12	19.93	19.93	19.96	21	0	
10	QPSK	25	25	19.86	19.86	19.89			
10	QPSK	50	0	19.91	19.91	19.97			
10	16QAM	1	0	19.80	19.91	19.90			
10	16QAM	1	25	19.80	19.83	19.84	21	0	
10	16QAM	1	49	19.86	20.00	19.96			
10	16QAM	25	0	19.93	19.91	19.90			
10	16QAM	25	12	19.75	19.92	19.84	21	0	
10	16QAM	25	25	19.91	19.86	19.90			
10	16QAM	50	0	19.65	20.02	19.85			
10	8QAM	1	0	19.86	20.17	19.96			
10	8QAM	1	25	19.84	20.19	19.96	21	0	
10	8QAM	1	49	19.87	20.12	19.99			
10	8QAM	25	0	19.87	20.08	19.96			
10	8QAM	25	12	19.80	20.07	19.95	21	0	
10	8QAM	25	25	19.88	20.06	19.97			
10	8QAM	50	0	19.96	20.03	19.88			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.89	20.09	19.94			
5	QPSK	1	12	19.90	20.15	19.92	21	0	
5	QPSK	1	24	19.72	19.90	19.89			
5	QPSK	12	0	19.77	20.13	19.92			
5	QPSK	12	7	19.85	19.94	20.01	21	0	
5	QPSK	12	13	19.81	19.89	19.79			
5	QPSK	25	0	19.75	19.94	19.85			
5	16QAM	1	0	19.75	19.94	19.85			
5	16QAM	1	12	19.80	19.80	19.89	21	0	
5	16QAM	1	24	19.89	19.95	19.95			
5	16QAM	12	0	19.93	19.87	19.90			
5	16QAM	12	7	19.79	19.90	19.83	21	0	
5	16QAM	12	13	19.87	19.92	19.96			
5	16QAM	25	0	19.73	19.95	19.87			
5	16QAM	25	0	19.89	20.05	20.00			
5	8QAM	1	0	19.83	20.05	19.89			
5	8QAM	1	24	19.82	20.15	19.93	21	0	
5	8QAM	1	24	19.80	20.01	19.86			
5	8QAM	12	7	19.88	20.15	19.95	21	0	
5	8QAM	12	13	19.88	20.17	19.86			
5	8QAM	25	0	19.80	20.05	19.94			
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.94	20.09	19.97			
3	QPSK	1	8	19.91	20.08	19.83	21	0	
3	QPSK	1	14	19.71	19.73	19.98			
3	QPSK	6	0	19.83	20.17	19.80			
3	QPSK	6	4	19.88	19.89	20.05	21	0	
3	QPSK	6	7	19.83	19.92	19.94			
3	16QAM	1	0	19.91	19.93	19.89			
3	16QAM	1	0	19.77	19.92	19.85	21	0	
3	16QAM	1	8	19.84	19.74	19.98			
3	16QAM	1	14	19.82	19.99	19.94			
3	16QAM	6	0	19.94	19.94	19.92			
3	16QAM	6	4	19.79	19.86	19.85	21	0	
3	16QAM	6	7	19.94	19.92	19.95			
3	16QAM	15	0	19.67	19.98	19.97			
3	8QAM	1	0	19.82	20.05	19.95			
3	8QAM	1	8	19.80	20.17	20.02	21	0	
3	8QAM	1	14	19.96	20.07	19.89			
3	8QAM	6	0	19.84	20.17	19.95			
3	8QAM	6	4	19.89	20.11	19.91	21	0	
3	8QAM	6	7	19.92	20.21	19.95			
3	8QAM	15	0	19.91	20.11	19.94			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.83	20.15	20.06			
1.4	QPSK	1	3	19.87	20.12	19.94	21	0	
1.4	QPSK	1	5	19.70	19.84	19.83			
1.4	QPSK	3	0	19.79	20.15	19.85			
1.4	QPSK	3	1	19.91	19.90	20.04			
1.4	QPSK	3	3	19.88	19.95	19.82			
1.4	QPSK	6	0	19.92	19.95	19.96	21	0	
1.4	16QAM	1	0	19.78	19.85	19.86			
1.4	16QAM	1	3	19.80	19.75	19.86			
1.4	16QAM	1	5	19.80	19.86	19.92	21	0	
1.4	16QAM	3	0	19.89	19.94	19.90			
1.4	16QAM	3	1	19.73	19.84	19.79			
1.4	16QAM	3	3	19.93	19.90	19.90			
1.4	16QAM	6	0	19.62	20.01	19.88	21	0	
1.4	8QAM	1	0	19.91	20.17	19.97			
1.4	8QAM	1	3	19.82	20.02	19.90			
1.4	8QAM	1	5	19.91	20.10	20.00	21	0	
1.4	8QAM	3	0	19.90	20.09	19.86			
1.4	8QAM	3	1	19.82	20.20	20.09			
1.4	8QAM	3	3	19.95	20.19	19.89			
1.4	8QAM	6	0	19.96	20.17	20.04	21	0	

Band 5 Ant 1									
RF (MHz)	Modulation	RB Size	RB Offset	Power Lvl Ch / Freq 2040	Power Lvl Ch / Freq 2050	Power Lvl Ch / Freq 2060	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.74	20.99	20.92			
10	QPSK	1	25	20.77	20.87	20.83	22	0	
10	QPSK	1	49	20.76	20.74	20.71			
10	QPSK	25	0	20.74	20.92	20.88			
10	QPSK	25	12	20.71	20.86	20.76	22	0	
10	QPSK	25	25	20.62	20.71	20.81			
10	QPSK	50	0	20.75	20.91	20.75			
10	16QAM	1	0	20.77	20.94	20.88			
10	16QAM	1	25	20.70	20.82	20.79	22	0	
10	16QAM	1	49	20.67	20.85	20.75			
10	16QAM	25	0	20.78	20.90	20.83			
10	16QAM	25	12	20.71	20.80	20.82	22	0	
10	16QAM	25	25	20.65	20.88	20.78			
10	16QAM	50	0	20.67	20.88	20.81			
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	20.71	20.86	20.79			
5	QPSK	1	12	20.69	20.75	20.72	22	0	
5	QPSK	1	24	20.67	20.73	20.70			
5	QPSK	12	0	20.61	20.84	20.83			
5	QPSK	12	7	20.59	20.81	20.75	22	0	
5	QPSK	12	14	20.57	20.82	20.78			
5	QPSK	25	0	20.64	20.75	20.78			
5	16QAM	1	0	20.71	20.86	20.83			
5	16QAM	1	12	20.68	20.78	20.89	22	0	
5	16QAM	1	24	20.66	20.76	20.84			
5	16QAM	12	0	20.73	20.78	20.83			
5	16QAM	12	7	20.65	20.74	20.75	22	0	
5	16QAM	12	14	20.68	20.63	20.62			
5	16QAM	25	0	20.74	20.72	20.84			
5	16QAM	1	0	20.63	20.81	20.79			
5	16QAM	1	12	20.65	20.72	20.73	22	0	
5	16QAM	1	24	20.63	20.83	20.79			
5	16QAM	12	0	20.73	20.91	20.82			
5	16QAM	12	7	20.63	20.60	20.88	22	0	
5	16QAM	12	14	20.64	20.62	20.82			
5	16QAM	25	0	20.69	20.80	20.87			
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
3	QPSK	1	0	20.70	20.91	20.79			
3	QPSK	1	8	20.67	20.79	20.74	22	0	
3	QPSK	1	14	20.65	20.84	20.84			
3	QPSK	8	0	20.68	20.81	20.75	22	0	
3	QPSK	8	4	20.65	20.83	20.75			
3	QPSK	8	7	20.58	20.60	20.70	22	0	
3	QPSK	15	0	20.66	20.70	20.72			
3	16QAM	1	0	20.70	20.88	20.75	22	0	
3	16QAM	1	8	20.65	20.75	20.59			
3	16QAM	1	14	20.62	20.70	20.68			
3	16QAM	8	0	20.66	20.81	20.79	22	0	
3	16QAM	8	4	20.62	20.79	20.81			
3	16QAM	8	7	20.57	20.70	20.54	22	0	
3	16QAM	15	0	20.70	20.72	20.59			
3	16QAM	1	0	20.58	20.87	20.75	22	0	
3	16QAM	1	8	20.61	20.84	20.77			
3	16QAM	1	14	20.72	20.87	20.79			
3	16QAM	8	0	20.70	20.87	20.75	22	0	
3	16QAM	8	4	20.60	20.87	20.70			
3	16QAM	8	7	20.65	20.88	20.77			
3	16QAM	15	0	20.68	20.81	20.86			
Channel							Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	20.65	20.92	20.86			
1.4	QPSK	1	3	20.70	20.75	20.74	22	0	
1.4	QPSK	1	6	20.64	20.68	20.84			
1.4	QPSK	3	0	20.63	20.87	20.84			
1.4	QPSK	3	1	20.66	20.75	20.86			
1.4	QPSK	6	0	20.63	20.86	20.78			
1.4	QPSK	6	0	20.69	20.87	20.71	22	0	
1.4	16QAM	1	0	20.69	20.86	20.85			
1.4	16QAM	1	3	20.69	20.91	20.76			
1.4	16QAM	1	6	20.58	20.74	20.70	22	0	
1.4	16QAM	3	0	20.71	20.81	20.84			
1.4	16QAM	3	1	20.65	20.71	20.83			
1.4	16QAM	6	0	20.65	20.84	20.80			
1.4	16QAM	6	0	20.73	20.78	20.80	22	0	
1.4	16QAM	1	0	20.68	20.88	20.77			
1.4	16QAM	1	3	20.72	20.87	20.79			
1.4	16QAM	1	6	20.59	20.86	20.89	22	0	
1.4	16QAM	3	0	20.64	20.80	20.89			
1.4	16QAM	3	1	20.60	20.80	20.82			
1.4	16QAM	6	0	20.71	20.88	20.84			
1.4	16QAM	6	0	20.68	20.80	20.82	22	0	

Band 12 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel				704	707.5	711				
Frequency (MHz)										
10	QPSK	1	0	19.15	19.08	19.34	20	0		
10	QPSK	1	25	19.23	19.26	19.37				
10	QPSK	1	49	19.26	19.22	19.24				
10	QPSK	25	0	19.15	19.00	19.38	20	0		
10	QPSK	25	12	19.24	19.20	19.26				
10	QPSK	25	25	19.20	19.17	19.13				
10	QPSK	50	0	19.22	19.25	19.22	20	0		
10	16QAM	1	0	19.26	19.36	19.39				
10	16QAM	1	25	19.26	19.23	19.23				
10	16QAM	1	49	19.25	19.20	19.25	20	0		
10	16QAM	25	0	19.21	19.08	19.33				
10	16QAM	25	12	19.23	19.31	19.24				
10	16QAM	50	0	19.27	19.21	19.25	20	0		
10	16QAM	25	25	19.18	19.23	19.15				
10	84QAM	1	0	19.12	19.54	19.28				
10	84QAM	1	25	19.13	19.51	19.22				
10	84QAM	1	49	19.17	19.58	19.17				
10	84QAM	25	0	19.13	19.06	19.21	20	0		
10	84QAM	25	12	19.17	19.56	19.17				
10	84QAM	25	25	19.18	19.55	19.32				
10	84QAM	50	0	19.16	19.50	19.22	20	0		
Channel				23005	23065	23155				
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	19.15	19.03	19.25	20	0		
5	QPSK	1	12	19.17	19.19	19.26				
5	QPSK	1	24	19.18	19.19	19.14				
5	QPSK	12	0	19.03	19.01	19.34	20	0		
5	QPSK	12	7	19.20	19.15	19.17				
5	QPSK	12	13	19.16	19.21	19.25				
5	QPSK	25	0	19.10	19.13	19.17	20	0		
5	16QAM	1	0	19.18	19.05	19.33				
5	16QAM	1	12	19.22	19.19	19.25				
5	16QAM	1	24	19.18	19.18	19.25	20	0		
5	16QAM	12	0	19.24	19.64	19.22				
5	16QAM	12	7	19.16	19.19	19.15				
5	16QAM	12	13	19.19	19.21	19.21	20	0		
5	16QAM	25	0	19.23	19.17	19.25				
5	84QAM	1	0	19.17	19.65	19.21	20	0		
5	84QAM	1	12	19.17	19.67	19.21				
5	84QAM	1	24	19.18	19.07	19.19				
5	84QAM	12	0	19.14	19.09	19.16	20	0		
5	84QAM	12	7	19.16	19.50	19.35				
5	84QAM	12	13	19.19	19.21	19.25				
5	84QAM	25	0	19.13	19.03	19.25	20	0		
Channel				23025	23065	23165				
Frequency (MHz)				700.5	707.5	714.5				
3	QPSK	1	0	19.26	19.45	19.24	20	0		
3	QPSK	1	8	19.22	19.19	19.32				
3	QPSK	1	14	19.18	19.24	19.17				
3	QPSK	8	0	19.07	19.50	19.34	20	0		
3	QPSK	8	4	19.11	19.16	19.15				
3	QPSK	8	7	19.10	19.09	19.07				
3	QPSK	15	0	19.16	19.20	19.18	20	0		
3	16QAM	1	0	19.16	19.08	19.33				
3	16QAM	1	8	19.22	19.17	19.10				
3	16QAM	1	14	19.16	19.17	19.16	20	0		
3	16QAM	8	0	19.15	19.58	19.26				
3	16QAM	8	4	19.20	19.20	19.11				
3	16QAM	8	7	19.09	19.20	19.08	20	0		
3	16QAM	15	0	19.23	19.14	19.19				
3	84QAM	1	0	19.22	19.68	19.21	20	0		
3	84QAM	1	8	19.24	19.55	19.19				
3	84QAM	1	14	19.22	19.39	19.32				
3	84QAM	8	0	19.18	19.54	19.23	20	0		
3	84QAM	8	4	19.17	19.52	19.20				
3	84QAM	8	7	19.15	19.65	19.17				
3	84QAM	15	0	19.15	19.65	19.23	20	0		
Channel				23017	23065	23173				
Frequency (MHz)				699.7	707.5	715.3				
1.4	QPSK	1	0	19.17	19.63	19.29	20	0		
1.4	QPSK	1	3	19.21	19.15	19.32				
1.4	QPSK	1	5	19.15	19.21	19.17				
1.4	QPSK	3	0	19.10	19.55	19.34	20	0		
1.4	QPSK	3	1	19.13	19.15	19.14				
1.4	QPSK	3	3	19.11	19.09	19.07				
1.4	QPSK	6	0	19.17	19.19	19.15	20	0		
1.4	16QAM	1	0	19.15	19.62	19.34				
1.4	16QAM	1	3	19.22	19.17	19.14				
1.4	16QAM	1	5	19.19	19.15	19.21	20	0		
1.4	16QAM	3	0	19.16	19.56	19.25				
1.4	16QAM	3	1	19.13	19.20	19.21				
1.4	16QAM	3	3	19.07	19.11	19.15	20	0		
1.4	16QAM	6	0	19.16	19.13	19.22				
1.4	84QAM	1	0	19.16	19.61	19.24				
1.4	84QAM	1	3	19.16	19.59	19.25	20	0		
1.4	84QAM	1	5	19.18	19.54	19.25				
1.4	84QAM	3	0	19.10	19.56	19.25				
1.4	84QAM	3	1	19.11	19.57	19.21	20	0		
1.4	84QAM	3	3	19.23	19.07	19.31				
1.4	84QAM	6	0	19.07	19.54	19.16				

Band 13 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.25	20.25		21	0		
10	QPSK	1	25	20.12						
10	QPSK	1	49	20.07						
10	QPSK	25	0	20.19			21	0		
10	QPSK	25	12	20.07						
10	QPSK	25	25	20.00						
10	QPSK	50	0	19.09			21	0		
10	16QAM	1	0	20.08						
10	16QAM	1	25	20.07						
10	16QAM	1	49	20.09			21	0		
10	16QAM	25	0	20.07						
10	16QAM	25	12	20.12						
10	16QAM	25	25	20.19			21	0		
10	16QAM	50	0	20.04						
10	84QAM	1	0	20.16			21	0		
10	84QAM	1	25	20.06						
10	84QAM	1	49	20.16						
10	84QAM	25	0	20.10			21	0		
10	84QAM	25	12	20.08						
10	84QAM	25	25	20.23						
10	84QAM	50	0	20.18			21	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.13	20.13	20.13	21	13		
5	QPSK	1	12	20.03	19.94	19.94				
5	QPSK	1	24	19.90	19.83	19.81				
5	QPSK	12	0	20.04	20.04	20.04	21	13		
5	QPSK	12	7	19.99	19.94	19.94				
5	QPSK	12	13	19.87	19.91	19.94				
5	QPSK	12	19	19.82	19.87	19.79	21	13		
5	16QAM	1	0	20.04	20.00	19.99				
5	16QAM	1	12	20.03	19.98	19.96				
5	16QAM	1	24	19.96	20.00	20.03	21	13		
5	16QAM	12	0	19.94	20.00	20.11				
5	16QAM	12	7	20.06	20.06	19.94				
5	16QAM	12	13	20.03	20.01	19.97	21	13		
5	16QAM	12	19	19.99	19.97	19.93				
5	84QAM	1	0	20.06	20.03	19.98				
5	84QAM	1	12	20.08	20.01	20.04	21	13		
5	84QAM	1	24	20.02	20.00	19.98				
5	84QAM	12	0	20.05	20.11	19.94				
5	84QAM	12	7	19.98	20.06	19.96	21	13		
5	84QAM	12	13	20.01	20.02	20.05				
5	84QAM	12	19	20.04	20.01	19.97				



Band 2 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				18700	18900	19100					
Frequency (MHz)				1860	1880	1900					
20	QPSK	1	0	16.40	16.59	16.54	17	0			
20	QPSK	1	49	16.35	16.48	16.44					
20	QPSK	1	99	16.34	16.42	16.39					
20	QPSK	50	0	16.39	16.53	16.50					
20	QPSK	50	24	16.33	16.49	16.45	17	0			
20	QPSK	50	50	16.33	16.36	16.38					
20	QPSK	100	0	16.34	16.55	16.49					
20	16QAM	1	0	16.31	16.57	16.51					
20	16QAM	1	49	16.27	16.55	16.52	17	0			
20	16QAM	1	99	16.29	16.39	16.30					
20	16QAM	50	0	16.42	16.49	16.49					
20	16QAM	50	24	16.34	16.45	16.53					
20	16QAM	50	50	16.28	16.43	16.32	17	0			
20	16QAM	100	0	16.25	16.50	16.47					
20	64QAM	1	0	16.37	16.57	16.49					
20	64QAM	1	49	16.25	16.47	16.49	17	0			
20	64QAM	1	99	16.28	16.44	16.44					
20	64QAM	50	0	16.24	16.55	16.46					
20	64QAM	50	24	16.37	16.52	16.51					
20	64QAM	50	50	16.32	16.43	16.36	17	0			
20	64QAM	100	0	16.37	16.58	16.36					
Channel				18875	18900	19125	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				18875	1880	19025					
15	QPSK	1	0	16.35	16.52	16.47	17	0			
15	QPSK	1	37	16.30	16.42	16.39					
15	QPSK	1	74	16.31	16.33	16.32					
15	QPSK	36	0	16.34	16.46	16.48					
15	QPSK	36	20	16.24	16.41	16.41	17	0			
15	QPSK	36	39	16.25	16.33	16.32					
15	QPSK	75	0	16.28	16.50	16.41					
15	16QAM	1	0	16.23	16.53	16.43					
15	16QAM	1	37	16.24	16.48	16.49	17	0			
15	16QAM	1	74	16.24	16.35	16.26					
15	16QAM	36	0	16.33	16.40	16.39					
15	16QAM	36	20	16.22	16.37	16.37	17	0			
15	16QAM	36	39	16.22	16.40	16.24					
15	16QAM	75	0	16.22	16.40	16.39					
15	64QAM	1	0	16.28	16.50	16.44					
15	64QAM	1	37	16.27	16.44	16.38	17	0			
15	64QAM	1	74	16.34	16.50	16.48					
15	64QAM	36	0	16.33	16.45	16.51					
15	64QAM	36	20	16.21	16.45	16.48					
15	64QAM	36	39	16.34	16.43	16.51	17	0			
15	64QAM	75	0	16.33	16.41	16.49					
Channel				18850	18900	19150	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				18855	1880	19095					
10	QPSK	1	0	16.30	16.49	16.49	17	0			
10	QPSK	1	25	16.26	16.44	16.35					
10	QPSK	1	49	16.26	16.40	16.36					
10	QPSK	25	0	16.33	16.45	16.48					
10	QPSK	25	12	16.29	16.41	16.42	17	0			
10	QPSK	25	25	16.24	16.31	16.34					
10	QPSK	50	0	16.26	16.47	16.46					
10	16QAM	1	0	16.23	16.57	16.46					
10	16QAM	1	25	16.21	16.52	16.43	17	0			
10	16QAM	1	49	16.25	16.32	16.26					
10	16QAM	25	0	16.36	16.44	16.42					
10	16QAM	25	12	16.29	16.42	16.44	17	0			
10	16QAM	25	25	16.23	16.38	16.23					
10	16QAM	50	0	16.18	16.44	16.37					
10	64QAM	1	0	16.31	16.51	16.44	17	0			
10	64QAM	1	25	16.36	16.47	16.53					
10	64QAM	1	49	16.21	16.57	16.35					
10	64QAM	25	0	16.34	16.55	16.48					
10	64QAM	25	12	16.27	16.42	16.39	17	0			
10	64QAM	25	25	16.35	16.52	16.38					
10	64QAM	50	0	16.33	16.42	16.46					
Channel				18925	18900	19175	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				18925	1880	19075					
5	QPSK	1	0	16.30	16.53	16.48	17	0			
5	QPSK	1	12	16.26	16.41	16.41					
5	QPSK	1	24	16.25	16.36	16.36					
5	QPSK	12	0	16.32	16.44	16.48					
5	QPSK	12	7	16.27	16.44	16.43	17	0			
5	QPSK	12	13	16.30	16.30	16.29					
5	QPSK	25	0	16.30	16.47	16.43					
5	16QAM	1	0	16.22	16.57	16.45					
5	16QAM	1	12	16.19	16.46	16.46	17	0			
5	16QAM	1	24	16.20	16.37	16.26					
5	16QAM	12	0	16.38	16.41	16.39					
5	16QAM	12	7	16.29	16.37	16.47					
5	16QAM	12	13	16.23	16.36	16.30	17	0			
5	16QAM	25	0	16.22	16.43	16.42					
5	64QAM	1	0	16.23	16.50	16.40					
5	64QAM	1	12	16.24	16.57	16.52					
5	64QAM	1	24	16.30	16.47	16.36	17	0			
5	64QAM	12	0	16.35	16.46	16.35					
5	64QAM	12	7	16.24	16.49	16.38					
5	64QAM	12	13	16.34	16.54	16.39					
5	64QAM	25	0	16.29	16.46	16.51	17	0			
Channel				18815	18900	19185	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				18815	1880	19085					
3	QPSK	1	0	16.37	16.52	16.49	17	0			
3	QPSK	1	8	16.32	16.44	16.35					
3	QPSK	1	14	16.30	16.34	16.30					
3	QPSK	8	0	16.32	16.44	16.43					
3	QPSK	8	4	16.31	16.45	16.42	17	0			
3	QPSK	8	7	16.27	16.29	16.36					
3	QPSK	15	0	16.29	16.50	16.45					
3	16QAM	1	0	16.24	16.54	16.43					
3	16QAM	1	8	16.23	16.47	16.49	17	0			
3	16QAM	1	14	16.21	16.37	16.27					
3	16QAM	8	0	16.40	16.39	16.41					
3	16QAM	8	4	16.28	16.41	16.48					
3	16QAM	8	7	16.26	16.38	16.26	17	0			
3	16QAM	15	0	16.21	16.46	16.40					
3	64QAM	1	0	16.36	16.56	16.52					
3	64QAM	1	8	16.23	16.55	16.45					
3	64QAM	1	14	16.31	16.43	16.38	17	0			
3	64QAM	8	0	16.25	16.47	16.38					
3	64QAM	8	4	16.26	16.40	16.37					
3	64QAM	8	7	16.31	16.55	16.37					
3	64QAM	15	0	16.22	16.42	16.45	17	0			
Channel				18907	18900	19093	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				18907	1880	19093					
1.4	QPSK	1	0	16.38	16.48	16.40	17	0			
1.4	QPSK	1	3	16.29	16.39	16.38					
1.4	QPSK	1	5	16.26	16.37	16.30					
1.4	QPSK	3	0	16.35	16.47	16.46					
1.4	QPSK	3	1	16.24	16.46	16.38	17	0			
1.4	QPSK	3	3	16.26	16.28	16.32					
1.4	QPSK	6	0	16.26	16.50	16.46					
1.4	16QAM	1	0	16.24	16.46	16.47					
1.4	16QAM	1	3	16.19	16.53	16.42	17	0			
1.4	16QAM	1	5	16.21	16.38	16.22					
1.4	16QAM	3	0	16.38	16.41	16.47					
1.4	16QAM	3	1	16.32	16.42	16.43					
1.4	16QAM	3	3	16.20	16.38	16.29	17	0			
1.4	16QAM	6	0	16.20	16.43	16.43					
1.4	16QAM	1	0	16.35	16.50	16.52					
1.4	64QAM	1	3	16.29	16.58	16.43					
1.4	64QAM	1	5	16.23	16.40	16.43	17	0			
1.4	64QAM	3	0	16.24	16.47	16.51					
1.4	64QAM	3	1	16.32	16.41	16.46					
1.4	64QAM	3	3	16.38	16.46	16.38					
1.4	64QAM	6	0	16.25	16.57	16.46	17	0			

Band 30 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				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		12.69		13.5	0
10	QPSK	1	25		12.39			
10	QPSK	1	49		12.41			
10	QPSK	25	0		12.58		13.5	0
10	QPSK	25	12		12.38			
10	QPSK	25	25		12.62			
10	QPSK	50	0		12.51		13.5	0
10	16QAM	1	0		12.53			
10	16QAM	1	25		12.44			
10	16QAM	1	49		12.57		13.5	0
10	16QAM	25	0		12.61			
10	16QAM	25	12		12.43			
10	16QAM	25	25		12.41		13.5	0
10	16QAM	50	0		12.41			
10	64QAM	1	0		12.63			
10	64QAM	1	25		12.61		13.5	0
10	64QAM	1	49		12.57			
10	64QAM	25	0		12.53			
10	64QAM	25	12		12.65		13.5	0
10	64QAM	25	25		12.58			
10	64QAM	50	0		12.52			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	12.57	12.65	12.65	13.5	0
5	QPSK	1	12	12.29	12.30	12.34		
5	QPSK	1	24	12.30	12.31	12.35		
5	QPSK	12	0	12.48	12.47	12.47	13.5	0
5	QPSK	12	7	12.31	12.34	12.31		
5	QPSK	12	13	12.47	12.43	12.40		
5	QPSK	25	0	12.39	12.40	12.43	13.5	0
5	16QAM	1	0	12.42	12.45	12.47		
5	16QAM	1	12	12.36	12.38	12.36		
5	16QAM	1	24	12.47	12.46	12.51	13.5	0
5	16QAM	12	0	12.54	12.56	12.51		
5	16QAM	12	7	12.37	12.36	12.37		
5	16QAM	12	13	12.36	12.31	12.31	13.5	0
5	16QAM	25	0	12.34	12.35	12.32		
5	64QAM	1	0	12.44	12.47	12.50		
5	64QAM	1	12	12.48	12.50	12.58	13.5	0
5	64QAM	1	24	12.53	12.53	12.50		
5	64QAM	12	0	12.47	12.62	12.51		
5	64QAM	12	7	12.45	12.52	12.62	13.5	0
5	64QAM	12	13	12.45	12.47	12.62		
5	64QAM	25	0	12.49	12.63	12.57		



Band 2 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	QPSK	1	0	13.65	13.95	13.72	14.5	0		
20	QPSK	1	49	13.85	13.87	13.64				
20	QPSK	1	99	13.49	13.77	13.68				
20	QPSK	50	0	13.67	13.88	13.68				
20	QPSK	50	24	13.61	13.74	13.80	14.5	0		
20	QPSK	50	50	13.58	13.66	13.56				
20	QPSK	100	0	13.68	13.72	13.69				
20	16QAM	1	0	13.57	13.74	13.63				
20	16QAM	1	49	13.56	13.55	13.66	14.5	0		
20	16QAM	1	99	13.59	13.78	13.76				
20	16QAM	50	0	13.71	13.77	13.61				
20	16QAM	50	24	13.53	13.70	13.82				
20	16QAM	50	50	13.85	13.74	13.67	14.5	0		
20	16QAM	100	0	13.42	13.75	13.56				
20	64QAM	1	0	13.54	13.84	13.62				
20	64QAM	1	49	13.63	13.84	13.54				
20	64QAM	1	99	13.51	13.79	13.59	14.5	0		
20	64QAM	50	0	13.54	13.89	13.62				
20	64QAM	50	24	13.48	13.85	13.65				
20	64QAM	50	50	13.54	13.86	13.62				
20	64QAM	100	0	13.58	13.84	13.68	14.5	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.68	13.82	13.65	14.5	0		
15	QPSK	1	37	13.56	13.86	13.73				
15	QPSK	1	74	13.61	13.62	13.56				
15	QPSK	36	0	13.64	13.84	13.74				
15	QPSK	36	20	13.60	13.60	13.75	14.5	0		
15	QPSK	36	39	13.60	13.58	13.57				
15	QPSK	75	0	13.67	13.78	13.71				
15	16QAM	1	0	13.67	13.78	13.61				
15	16QAM	1	37	13.69	13.57	13.74	14.5	0		
15	16QAM	1	74	13.55	13.80	13.79				
15	16QAM	36	0	13.58	13.71	13.65				
15	16QAM	36	20	13.52	13.70	13.75				
15	16QAM	36	39	13.70	13.76	13.73	14.5	0		
15	16QAM	75	0	13.55	13.59	13.70				
15	64QAM	1	0	13.60	13.88	13.53				
15	64QAM	1	37	13.51	13.92	13.65				
15	64QAM	1	74	13.54	13.85	13.54	14.5	0		
15	64QAM	36	0	13.48	13.92	13.56				
15	64QAM	36	20	13.58	13.77	13.63				
15	64QAM	36	39	13.50	13.78	13.57				
15	64QAM	75	0	13.56	13.80	13.57	14.5	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.63	13.85	13.87	14.5	0		
10	QPSK	1	25	13.66	13.83	13.70				
10	QPSK	1	49	13.64	13.57	13.67				
10	QPSK	25	0	13.69	13.72	13.78				
10	QPSK	25	12	13.60	13.65	13.74	14.5	0		
10	QPSK	25	25	13.62	13.66	13.66				
10	QPSK	50	0	13.65	13.72	13.70				
10	16QAM	1	0	13.63	13.66	13.63				
10	16QAM	1	25	13.68	13.64	13.73	14.5	0		
10	16QAM	1	49	13.71	13.86	13.71				
10	16QAM	25	0	13.70	13.71	13.66				
10	16QAM	25	12	13.57	13.77	13.76				
10	16QAM	25	25	13.59	13.67	13.70	14.5	0		
10	16QAM	50	0	13.53	13.75	13.53				
10	64QAM	1	0	13.61	13.79	13.66				
10	64QAM	1	25	13.62	13.83	13.54				
10	64QAM	1	49	13.50	13.77	13.71	14.5	0		
10	64QAM	25	0	13.54	13.87	13.64				
10	64QAM	25	12	13.60	13.84	13.71				
10	64QAM	25	25	13.49	13.80	13.55				
10	64QAM	50	0	13.54	13.80	13.56	14.5	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.68	13.86	13.70	14.5	0		
5	QPSK	1	12	13.57	13.75	13.71				
5	QPSK	1	24	13.60	13.52	13.62				
5	QPSK	12	0	13.71	13.80	13.74				
5	QPSK	12	7	13.48	13.73	13.64	14.5	0		
5	QPSK	12	13	13.60	13.74	13.54				
5	QPSK	25	0	13.71	13.82	13.69				
5	16QAM	1	0	13.59	13.80	13.56				
5	16QAM	1	12	13.65	13.54	13.72	14.5	0		
5	16QAM	1	24	13.55	13.75	13.74				
5	16QAM	12	0	13.71	13.61	13.66				
5	16QAM	12	7	13.67	13.68	13.76				
5	16QAM	12	13	13.67	13.72	13.66	14.5	0		
5	16QAM	25	0	13.48	13.59	13.63				
5	64QAM	1	0	13.56	13.88	13.69				
5	64QAM	1	12	13.48	13.77	13.68				
5	64QAM	1	24	13.53	13.83	13.71	14.5	0		
5	64QAM	12	0	13.50	13.86	13.67				
5	64QAM	12	7	13.51	13.80	13.54				
5	64QAM	12	13	13.52	13.83	13.64				
5	64QAM	25	0	13.53	13.88	13.60	14.5	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.70	13.80	13.69	14.5	0		
3	QPSK	1	8	13.58	13.73	13.73				
3	QPSK	1	14	13.49	13.66	13.60				
3	QPSK	8	0	13.61	13.78	13.64				
3	QPSK	8	4	13.59	13.76	13.69	14.5	0		
3	QPSK	8	7	13.63	13.85	13.54				
3	QPSK	16	0	13.67	13.85	13.70				
3	16QAM	1	0	13.62	13.72	13.58				
3	16QAM	1	8	13.54	13.61	13.74	14.5	0		
3	16QAM	1	14	13.67	13.89	13.78				
3	16QAM	8	0	13.56	13.67	13.60				
3	16QAM	8	4	13.57	13.72	13.70				
3	16QAM	8	7	13.61	13.74	13.61	14.5	0		
3	16QAM	15	0	13.57	13.59	13.66				
3	64QAM	1	0	13.47	13.85	13.70				
3	64QAM	1	8	13.60	13.86	13.62				
3	64QAM	1	14	13.58	13.88	13.62	14.5	0		
3	64QAM	8	0	13.64	13.83	13.80				
3	64QAM	8	4	13.55	13.83	13.55				
3	64QAM	8	7	13.63	13.87	13.61				
3	64QAM	15	0	13.62	13.81	13.67	14.5	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	13.67	13.91	13.67	14.5	0		
1.4	QPSK	1	3	13.61	13.80	13.70				
1.4	QPSK	1	5	13.64	13.65	13.70				
1.4	QPSK	3	0	13.62	13.80	13.78				
1.4	QPSK	3	1	13.58	13.67	13.81	14.5	0		
1.4	QPSK	3	3	13.57	13.66	13.59				
1.4	QPSK	6	0	13.75	13.83	13.69				
1.4	16QAM	1	0	13.57	13.67	13.68				
1.4	16QAM	1	3	13.59	13.56	13.70	14.5	0		
1.4	16QAM	1	5	13.71	13.87	13.83				
1.4	16QAM	3	0	13.68	13.62	13.58				
1.4	16QAM	3	1	13.63	13.66	13.74				
1.4	16QAM	3	3	13.69	13.75	13.72	14.5	0		
1.4	16QAM	6	0	13.55	13.75	13.59				
1.4	64QAM	1	0	13.57	13.81	13.68				
1.4	64QAM	1	3	13.47	13.82	13.67				
1.4	64QAM	1	5	13.63	13.93	13.66	14.5	0		
1.4	64QAM	3	0	13.50	13.80	13.56				
1.4	64QAM	3	1	13.59	13.77	13.54				
1.4	64QAM	3	3	13.51	13.76	13.66				
1.4	64QAM	6	0	13.49	13.89	13.64	14.5	0		

Band 12 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				23060	23095	23130	20	0	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	19.20	19.69	19.34	20	0	
10	QPSK	1	25	19.23	19.26	19.37			
10	QPSK	1	49	19.26	19.22	19.24	20	0	
10	QPSK	25	0	19.15	19.60	19.38			
10	QPSK	25	12	19.24	19.20	19.26	20	0	
10	QPSK	25	25	19.20	19.17	19.13			
10	QPSK	50	0	19.22	19.25	19.22	20	0	
10	16QAM	1	0	19.26	19.68	19.38			
10	16QAM	1	25	19.26	19.23	19.23	20	0	
10	16QAM	1	49	19.25	19.20	19.26			
10	16QAM	25	0	19.21	19.68	19.33	20	0	
10	16QAM	25	12	19.23	19.31	19.24			
10	16QAM	25	25	19.18	19.23	19.19	20	0	
10	16QAM	50	0	19.27	19.21	19.29			
10	64QAM	1	0	19.12	19.54	19.28	20	0	
10	64QAM	1	25	19.13	19.51	19.22			
10	64QAM	1	49	19.17	19.58	19.17	20	0	
10	64QAM	25	0	19.13	19.56	19.21			
10	64QAM	25	12	19.17	19.56	19.17	20	0	
10	64QAM	25	25	19.18	19.55	19.32			
10	64QAM	50	0	19.15	19.50	19.22	20	0	
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5	20	0	
5	QPSK	1	0	19.15	19.63	19.25			
5	QPSK	1	12	19.17	19.19	19.26	20	0	
5	QPSK	1	24	19.18	19.19	19.14			
5	QPSK	12	0	19.03	19.51	19.34	20	0	
5	QPSK	12	7	19.20	19.15	19.17			
5	QPSK	12	13	19.09	19.08	19.05	20	0	
5	QPSK	25	0	19.16	19.13	19.17			
5	16QAM	1	0	19.18	19.65	19.33	20	0	
5	16QAM	1	12	19.22	19.19	19.20			
5	16QAM	1	24	19.18	19.18	19.20	20	0	
5	16QAM	12	0	19.24	19.64	19.22			
5	16QAM	12	7	19.16	19.19	19.16	20	0	
5	16QAM	12	13	19.19	19.21	19.21			
5	16QAM	25	0	19.23	19.17	19.25	20	0	
5	64QAM	1	0	19.17	19.65	19.21			
5	64QAM	1	12	19.17	19.57	19.31	20	0	
5	64QAM	1	24	19.18	19.67	19.19			
5	64QAM	12	0	19.14	19.59	19.16	20	0	
5	64QAM	12	7	19.16	19.50	19.33			
5	64QAM	12	13	19.14	19.55	19.19	20	0	
5	64QAM	25	0	19.13	19.53	19.25			
Channel				23025	23095	23165	20	0	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	19.20	19.66	19.24	20	0	
3	QPSK	1	8	19.22	19.19	19.32			
3	QPSK	1	14	19.18	19.24	19.17	20	0	
3	QPSK	8	0	19.07	19.50	19.34			
3	QPSK	8	4	19.11	19.16	19.19	20	0	
3	QPSK	8	7	19.10	19.09	19.07			
3	QPSK	15	0	19.16	19.20	19.18	20	0	
3	16QAM	1	8	19.19	19.58	19.33			
3	16QAM	1	8	19.22	19.17	19.10	20	0	
3	16QAM	1	14	19.16	19.17	19.16			
3	16QAM	8	0	19.15	19.58	19.26	20	0	
3	16QAM	8	4	19.20	19.20	19.11			
3	16QAM	8	7	19.09	19.20	19.08	20	0	
3	16QAM	15	0	19.23	19.14	19.19			
3	64QAM	1	0	19.22	19.68	19.21	20	0	
3	64QAM	1	8	19.24	19.55	19.19			
3	64QAM	1	14	19.22	19.59	19.32	20	0	
3	64QAM	8	0	19.18	19.54	19.23			
3	64QAM	8	4	19.17	19.62	19.30	20	0	
3	64QAM	8	7	19.15	19.65	19.17			
3	64QAM	15	0	19.15	19.65	19.23	20	0	
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3	20	0	
1.4	QPSK	1	0	19.17	19.63	19.29			
1.4	QPSK	1	3	19.21	19.15	19.32	20	0	
1.4	QPSK	1	8	19.15	19.21	19.17			
1.4	QPSK	3	0	19.10	19.56	19.34	20	0	
1.4	QPSK	3	1	19.13	19.15	19.14			
1.4	QPSK	3	3	19.11	19.09	19.07	20	0	
1.4	QPSK	6	0	19.17	19.19	19.15			
1.4	16QAM	1	0	19.15	19.62	19.34	20	0	
1.4	16QAM	1	3	19.22	19.17	19.14			
1.4	16QAM	1	5	19.19	19.15	19.21	20	0	
1.4	16QAM	3	0	19.16	19.56	19.25			
1.4	16QAM	3	1	19.13	19.20	19.21	20	0	
1.4	16QAM	3	3	19.07	19.11	19.15			
1.4	16QAM	6	0	19.19	19.13	19.22	20	0	
1.4	64QAM	1	0	19.16	19.61	19.24			
1.4	64QAM	1	3	19.16	19.59	19.25	20	0	
1.4	64QAM	1	5	19.18	19.54	19.25			
1.4	64QAM	3	0	19.10	19.56	19.26	20	0	
1.4	64QAM	3	1	19.11	19.57	19.21			
1.4	64QAM	3	3	19.23	19.57	19.31	20	0	
1.4	64QAM	6	0	19.07	19.54	19.16			

Band 13 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				23200	23230		20.5	0	
Frequency (MHz)				782	19.69				
10	QPSK	1	0		19.69		20.5	0	
10	QPSK	1	25		19.57				
10	QPSK	1	49		19.52				
10	QPSK	25	0		19.62		20.5	0	
10	QPSK	25	12		19.60				
10	QPSK	25	25		19.52				
10	QPSK	50	0		19.42		20.5	0	
10	16QAM	1	0		19.61				
10	16QAM	1	25		19.61				
10	16QAM	1	49		19.58		20.5	0	
10	16QAM	25	0		19.60				
10	16QAM	25	12		19.57				
10	16QAM	25	25		19.65		20.5	0	
10	16QAM	50	0		19.55				
10	64QAM	1	0		19.60				
10	64QAM	1	25		19.53		20.5	0	
10	64QAM	1	49		19.65				
10	64QAM	25	0		19.50				
10	64QAM	25	12		19.62		20.5	0	
10	64QAM	25	25		19.68				
10	64QAM	50	0		19.52				
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	19.62	19.64	19.61	20.5	0	
5	QPSK	1	12	19.52	19.46	19.51			
5	QPSK	1	24	19.43	19.48	19.44			
5	QPSK	12	0	19.54	19.49	19.55	20.5	0	
5	QPSK	12	7	19.51	19.49	19.49			
5	QPSK	12	13	19.40	19.46	19.45			
5	QPSK	25	0	19.37	19.30	19.32	20.5	0	
5	16QAM	1	0	19.49	19.56	19.53			
5	16QAM	1	12	19.50	19.54	19.52			
5	16QAM	1	24	19.48	19.55	19.51	20.5	0	
5	16QAM	12	0	19.49	19.54	19.56			
5	16QAM	12	7	19.54	19.51	19.49			
5	16QAM	12	13	19.58	19.53	19.52	20.5	0	
5	16QAM	25	0	19.46	19.47	19.45			
5	64QAM	1	0	19.54	19.58	19.53			
5	64QAM	1	12	19.45	19.58	19.46	20.5	0	
5	64QAM	1	24	19.44	19.51	19.58			
5	64QAM	12	0	19.57	19.59	19.56			
5	64QAM	12	7	19.57	19.51	19.52	20.5	0	
5	64QAM	12	13	19.45	19.62	19.58			
5	64QAM	25	0	19.60	19.58	19.59			



Band 2 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				18700	18900	19100				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	16.40	16.59	16.54	17	0		
20	QPSK	1	49	16.35	16.48	16.44				
20	QPSK	1	99	16.34	16.42	16.39				
20	QPSK	50	0	16.39	16.53	16.50				
20	QPSK	50	24	16.33	16.49	16.45	17	0		
20	QPSK	50	50	16.33	16.36	16.38				
20	QPSK	100	0	16.34	16.55	16.49				
20	16QAM	1	0	16.31	16.57	16.51				
20	16QAM	1	49	16.27	16.55	16.52	17	0		
20	16QAM	1	99	16.29	16.39	16.30				
20	16QAM	50	0	16.42	16.49	16.49				
20	16QAM	50	24	16.34	16.45	16.53				
20	16QAM	50	50	16.28	16.43	16.32	17	0		
20	16QAM	100	0	16.25	16.50	16.47				
20	64QAM	1	0	16.37	16.57	16.49				
20	64QAM	1	49	16.25	16.47	16.49				
20	64QAM	1	99	16.28	16.44	16.44	17	0		
20	64QAM	50	0	16.24	16.55	16.46				
20	64QAM	50	24	16.37	16.52	16.51				
20	64QAM	50	50	16.32	16.43	16.35				
20	64QAM	100	0	16.37	16.58	16.36	17	0		
Channel				18875	18900	19125				
Frequency (MHz)				18875	1880	19025				
15	QPSK	1	0	16.35	16.52	16.47	17	0		
15	QPSK	1	37	16.30	16.42	16.39				
15	QPSK	1	74	16.31	16.33	16.32				
15	QPSK	36	0	16.34	16.46	16.48				
15	QPSK	36	20	16.24	16.41	16.41	17	0		
15	QPSK	36	39	16.25	16.33	16.32				
15	QPSK	75	0	16.28	16.50	16.41				
15	16QAM	1	0	16.23	16.53	16.43				
15	16QAM	1	37	16.24	16.48	16.49	17	0		
15	16QAM	1	74	16.24	16.35	16.26				
15	16QAM	36	0	16.33	16.40	16.39				
15	16QAM	36	20	16.22	16.37	16.37				
15	16QAM	36	39	16.22	16.40	16.24	17	0		
15	16QAM	75	0	16.22	16.40	16.39				
15	64QAM	1	0	16.28	16.50	16.44				
15	64QAM	1	37	16.27	16.44	16.38				
15	64QAM	1	74	16.34	16.50	16.48	17	0		
15	64QAM	36	0	16.33	16.45	16.51				
15	64QAM	36	20	16.21	16.45	16.48				
15	64QAM	36	39	16.34	16.43	16.51				
15	64QAM	75	0	16.33	16.41	16.49	17	0		
Channel				18850	18900	19150				
Frequency (MHz)				18855	18800	19095				
10	QPSK	1	0	16.30	16.49	16.49	17	0		
10	QPSK	1	25	16.26	16.44	16.35				
10	QPSK	1	49	16.28	16.40	16.36				
10	QPSK	25	0	16.33	16.45	16.48				
10	QPSK	25	12	16.29	16.41	16.42	17	0		
10	QPSK	25	25	16.24	16.31	16.34				
10	QPSK	50	0	16.26	16.47	16.46				
10	16QAM	1	0	16.23	16.57	16.46				
10	16QAM	1	25	16.21	16.52	16.43	17	0		
10	16QAM	1	49	16.25	16.32	16.26				
10	16QAM	25	0	16.36	16.44	16.42				
10	16QAM	25	12	16.29	16.42	16.44				
10	16QAM	25	25	16.23	16.38	16.23	17	0		
10	16QAM	50	0	16.18	16.44	16.37				
10	64QAM	1	0	16.31	16.51	16.44				
10	64QAM	1	25	16.35	16.47	16.53				
10	64QAM	1	49	16.21	16.57	16.35	17	0		
10	64QAM	25	0	16.34	16.55	16.48				
10	64QAM	25	12	16.27	16.42	16.39				
10	64QAM	25	25	16.35	16.52	16.38				
10	64QAM	50	0	16.33	16.42	16.46	17	0		
Channel				18925 <th>18900</th> <th>19175</th> <td colspan="2"></td>	18900	19175				
Frequency (MHz)				18925 <th>1880</th> <th>19075</th> <td colspan="2"></td>	1880	19075				
5	QPSK	1	0	16.30	16.53	16.48	17	0		
5	QPSK	1	12	16.26	16.43	16.41				
5	QPSK	1	24	16.25	16.36	16.36				
5	QPSK	12	0	16.32	16.44	16.48				
5	QPSK	12	7	16.27	16.44	16.43	17	0		
5	QPSK	12	13	16.30	16.30	16.29				
5	QPSK	25	0	16.30	16.47	16.43				
5	16QAM	1	0	16.22	16.57	16.45				
5	16QAM	1	12	16.19	16.46	16.46	17	0		
5	16QAM	1	24	16.20	16.37	16.26				
5	16QAM	12	0	16.38	16.41	16.39				
5	16QAM	12	7	16.29	16.37	16.47				
5	16QAM	12	13	16.23	16.36	16.30	17	0		
5	16QAM	25	0	16.22	16.43	16.42				
5	64QAM	1	0	16.23	16.50	16.40				
5	64QAM	1	12	16.24	16.57	16.52				
5	64QAM	1	24	16.30	16.47	16.36	17	0		
5	64QAM	12	0	16.35	16.46	16.35				
5	64QAM	12	7	16.24	16.49	16.38				
5	64QAM	12	13	16.34	16.54	16.39				
5	64QAM	25	0	16.29	16.46	16.51	17	0		
Channel				18915	18900	19185				
Frequency (MHz)				18915	1880	19085				
3	QPSK	1	0	16.37	16.52	16.49	17	0		
3	QPSK	1	8	16.32	16.44	16.35				
3	QPSK	1	14	16.30	16.34	16.30				
3	QPSK	8	0	16.32	16.44	16.43				
3	QPSK	8	4	16.31	16.45	16.42	17	0		
3	QPSK	8	7	16.27	16.29	16.36				
3	QPSK	15	0	16.29	16.50	16.45				
3	16QAM	1	0	16.24	16.54	16.43				
3	16QAM	1	8	16.23	16.47	16.49	17	0		
3	16QAM	1	14	16.21	16.37	16.27				
3	16QAM	8	0	16.40	16.39	16.41				
3	16QAM	8	4	16.28	16.41	16.48				
3	16QAM	8	7	16.26	16.38	16.26	17	0		
3	16QAM	15	0	16.21	16.46	16.40				
3	64QAM	1	0	16.36	16.56	16.52				
3	64QAM	1	8	16.23	16.55	16.45				
3	64QAM	1	14	16.31	16.43	16.38	17	0		
3	64QAM	8	0	16.25	16.47	16.38				
3	64QAM	8	4	16.26	16.40	16.37				
3	64QAM	8	7	16.31	16.55	16.37				

Band 2 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				18700	18900	19100				
Frequency (MHz)				1860	1880	1900				
1.4	QPSK	1	0	16.38	16.48	16.49	17	0		
1.4	QPSK	1	3	16.29	16.39	16.38				
1.4	QPSK	1	5	16.29	16.37	16.30				
1.4	QPSK	3	0	16.35	16.47	16.46				
1.4	QPSK	3	1	16.24	16.46	16.38	17	0		
1.4	QPSK	3	3	16.26	16.28	16.32				
1.4	QPSK	6	0	16.26	16.58	16.46				
1.4	16QAM	1	0	16.24	16.54	16.47				
1.4	16QAM	1	3	16.19	16.53	16.42	17	0		
1.4	16QAM	1	5	16.21	16.34	16.22				
1.4	16QAM	3	0	16.38	16.41	16.47				
1.4	16QAM	3	1	16.32	16.42	16.43				
1.4	16QAM	3	3	16.20	16.38	16.29	17	0		
1.4	16QAM	6	0	16.20	16.43	16.43				
1.4	64QAM	1	0	16.35	16.50	16.52				
1.4	64QAM	1	3	16.29	16.58	16.43				
1.4	64QAM	3	0	16.23	16.40	16.43	17	0		
1.4	64QAM	3	0	16.24	16.47	16.51				
1.4	64QAM	3	1	16.32	16.41	16.46				
1.4	64QAM	3	3	16.38	16.46	16.38				
1.4	64QAM	6	0	16.25	16.57	16.46	17	0		

Band 30 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				27710			15.5	0	
Frequency (MHz)				2310					
10	QPSK	1	0		14.57		15.5	0	
10	QPSK	1	25		14.23				
10	QPSK	1	49		14.33				
10	QPSK	25	0		14.56				
10	QPSK	25	12		14.31		15.5	0	
10	QPSK	25	25		14.41				
10	QPSK	50	0		14.39				
10	16QAM	1	0		14.37				
10	16QAM	1	25		14.42		15.5	0	
10	16QAM	1	49		14.48				
10	16QAM	25	0		14.52				
10	16QAM	25	12		14.28				
10	16QAM	25	25		14.34		15.5	0	
10	16QAM	50	0		14.25				
10	64QAM	1	0		14.40				
10	64QAM	1	25		14.52				
10	64QAM	1	49		14.44		15.5	0	
10	64QAM	25	0		14.42				
10	64QAM	25	12		14.46				
10	64QAM	25	25		14.43				
10	64QAM	50	0		14.43		15.5	0	
Channel				27685	27710	27735			
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	14.49	14.60	14.53	15.5	0	
5	QPSK	1	12	14.20	14.25	14.20			
5	QPSK	1	24	14.19	14.25	14.18			
5	QPSK	12	0	14.42	14.40	14.36			
5	QPSK	12	7	14.17	14.21	14.21	15.5	0	
5	QPSK	12	13	14.35	14.39	14.30			
5	QPSK	25	0	14.24	14.32	14.38			
5	16QAM	1	0	14.30	14.28	14.36			
5	16QAM	1	12	14.26	14.34	14.20	15.5	0	
5	16QAM	1	24	14.32	14.41	14.45			
5	16QAM	12	0	14.42	14.45	14.48			
5	16QAM	12	7	14.27	14.22	14.35			
5	16QAM	12	13	14.24	14.25	14.20	15.5	0	
5	16QAM	25	0	14.19	14.32	14.29			
5	64QAM	1	0	14.34	14.55	14.49			
5	64QAM	1	12	14.44	14.54	14.44			
5	64QAM	1	24	14.32	14.48	14.42	15.5	0	
5	64QAM	12	0	14.33	14.49	14.50			
5	64QAM	12	7	14.39	14.49	14.44			
5	64QAM	12	13	14.44	14.42	14.50			
5	64QAM	25	0	14.48	14.57	14.40			



Full&Default Power Mode

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				16600	167000	168000	24.0	0.0	
Frequency (MHz)				16600	16700	16800			
20	PI2 BPSK	1	1	22.50	22.81	22.50			
20	PI2 BPSK	1	53	22.51	22.43	22.46			
20	PI2 BPSK	1	104	22.56	22.58	22.44	23.5	0.5	
20	PI2 BPSK	50	0	22.14	22.22	22.08			
20	PI2 BPSK	50	28	22.52	22.60	22.49			
20	PI2 BPSK	50	56	22.13	22.16	22.09			
20	PI2 BPSK	100	0	22.13	22.21	22.08	23.5	0.5	
20	QPSK	1	1	22.65	22.71	22.63			
20	QPSK	1	53	22.56	22.56	22.59			
20	QPSK	1	104	22.61	22.65	22.52			
20	QPSK	50	0	21.70	21.66	21.61	23.0	1.0	
20	QPSK	50	28	22.53	22.65	22.51			
20	QPSK	50	56	21.67	21.72	21.68			
20	QPSK	100	0	21.63	21.75	21.58			
20	16QAM	1	1	21.71	21.68	21.61	23.0	1.0	
20	16QAM	1	1	20.14	20.24	20.09			
20	256QAM	1	1	18.13	18.19	18.15			
Channel				171000	172000	180000			
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	22.54	22.56	22.50			
Channel				170000	170000	181000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.53	22.56	22.52	24.0	0.0	
Channel				170000	170000	181000			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.56	22.58	22.55			

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				166000	167000	167000	24.0	0.0	
Frequency (MHz)				16600	16700	16700			
20	PI2 BPSK	1	1	23.41	23.44	23.45			
20	PI2 BPSK	1	53	23.41	23.42	23.40			
20	PI2 BPSK	1	104	23.45	23.42	23.41	23.5	0.5	
20	PI2 BPSK	50	0	22.59	23.08	22.96			
20	PI2 BPSK	50	28	23.40	23.49	23.39			
20	PI2 BPSK	50	56	23.05	23.11	22.95			
20	PI2 BPSK	100	0	23.10	23.12	23.03	24.0	0.0	
20	QPSK	1	1	23.55	23.58	23.51			
20	QPSK	1	53	23.50	23.54	23.47			
20	QPSK	1	104	23.50	23.53	23.45			
20	QPSK	50	0	22.56	22.56	22.47	23.0	1.0	
20	QPSK	50	28	23.46	23.51	23.48			
20	QPSK	50	56	22.67	22.67	22.50			
20	QPSK	100	0	22.51	22.59	22.52			
20	16QAM	1	1	22.53	22.56	22.49	23.0	1.0	
20	16QAM	1	1	21.09	21.03	21.04			
20	256QAM	1	1	19.02	19.05	19.06			
Channel				169000	167000	169000			
Frequency (MHz)				1831.5	1835	1841.5	24.0	0.0	
15	QPSK	1	40	23.46	23.51	23.37			
Channel				168000	167000	168000			
Frequency (MHz)				1829	1835.5	1844			
10	QPSK	1	26	23.46	23.41	23.40	24.0	0.0	
Channel				169000	167000	169000			
Frequency (MHz)				1826.5	1834.5	1841.5			
5	QPSK	1	13	23.44	23.46	23.36			

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	24.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.75	22.80	22.67			
40	PI2 BPSK	1	108	22.69	22.76	22.67	23.5	0.5	
40	PI2 BPSK	1	214	22.61	22.64	22.60			
40	PI2 BPSK	108	0	22.35	22.38	22.26			
40	PI2 BPSK	108	54	22.62	22.66	22.64			
40	PI2 BPSK	108	108	22.32	22.33	22.33	24.0	0.0	
40	PI2 BPSK	216	0	22.28	22.31	22.24			
40	QPSK	1	1	22.81	22.84	22.80			
40	QPSK	1	108	22.78	22.78	22.72			
40	QPSK	1	214	22.74	22.72	22.71	23.0	1.0	
40	QPSK	108	0	21.86	21.86	21.82			
40	QPSK	108	54	22.67	22.74	22.69			
40	QPSK	108	108	21.75	21.82	21.79			
40	QPSK	216	0	21.85	21.87	21.83	23.0	1.0	
40	16QAM	1	1	21.87	21.82	21.80			
40	16QAM	1	1	20.29	20.33	20.28			
40	256QAM	1	1	18.28	18.37	18.33			
Channel				505000	507000	510000	24.0	0.0	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.66	22.70	22.77			
Channel				505000	507000	510000			
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0	
25	QPSK	1	1	22.74	22.78	22.67			
Channel				505000	507000	510000			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	22.70	22.73	22.68	24.0	0.0	
Channel				501000	507000	512000			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.77	22.81	22.73			
Channel				501000	507000	513000	24.0	0.0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.74	22.80	22.69			
Channel				505000	507000	515000			
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	22.68	22.79	22.66			

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	24.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	Pl2 BPSK	1	1	22.41	22.41	22.37			
15	Pl2 BPSK	1	40	22.32	22.28	22.27			
15	Pl2 BPSK	1	77	22.28	22.26	22.19	23.5	0.5	
15	Pl2 BPSK	36	0	22.04	21.96	22.00			
15	Pl2 BPSK	36	22	22.35	22.42	22.35			
15	Pl2 BPSK	36	43	22.03	22.01	21.97			
15	Pl2 BPSK	75	0	21.96	22.07	21.96	24.0	0.0	
15	QPSK	1	1	22.49	22.51	22.48			
15	QPSK	1	40	22.44	22.41	22.40			
15	QPSK	1	77	22.39	22.41	22.34			
15	QPSK	36	0	21.51	21.56	21.52	23.0	1.0	
15	QPSK	36	22	22.45	22.46	22.33			
15	QPSK	36	43	21.45	21.53	21.54			
15	QPSK	75	0	21.47	21.55	21.46			
15	16QAM	1	1	21.52	21.48	21.53	23.0	1.0	
15	64QAM	1	1	19.94	20.03	19.96			
15	256QAM	1	1	17.36	17.56	18.00			
Channel				140900	141500	142100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	22.45	22.42	22.35		24.0	
Channel				140300	141500	142700			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.39	22.39	22.42	24.0	0.0	

n13 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						156400	24.0	0.0	
Frequency (MHz)						742			
10	Pl2 BPSK	1	1			22.02			
10	Pl2 BPSK	1	26			21.91			
10	Pl2 BPSK	1	50			21.93	23.5	0.5	
10	Pl2 BPSK	25	0			21.65			
10	Pl2 BPSK	25	14			22.06			
10	Pl2 BPSK	25	27			21.60			
10	Pl2 BPSK	50	0			21.62	24.0	0.0	
10	QPSK	1	1			22.13			
10	QPSK	1	26			22.01			
10	QPSK	1	50			22.04			
10	QPSK	25	0			21.07	23.0	1.0	
10	QPSK	25	14			22.08			
10	QPSK	25	27			21.14			
10	QPSK	50	0			21.16			
10	16QAM	1	1			21.99	23.0	1.0	
10	64QAM	1	1			20.62			
10	256QAM	1	1			18.57			
Channel				150900	156400	156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	1	21.98	22.01	21.92		24.0	

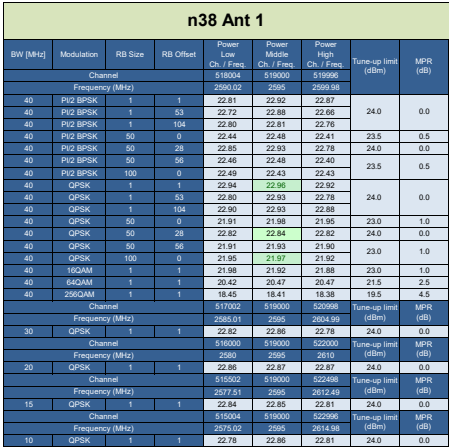
n14 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						156500	25.0	0.0	
Frequency (MHz)						743			
10	Pl2 BPSK	1	1			23.94			
10	Pl2 BPSK	1	26			23.76	24.5	0.5	
10	Pl2 BPSK	1	50			23.77			
10	Pl2 BPSK	25	0			23.39			
10	Pl2 BPSK	25	14			23.63			
10	Pl2 BPSK	25	27			23.48	24.5	0.5	
10	Pl2 BPSK	50	0			23.41			
10	QPSK	1	1			23.94			
10	QPSK	1	26			23.86	25.0	0.0	
10	QPSK	1	50			23.87			
10	QPSK	25	0			22.99			
10	QPSK	25	14			23.89	24.0	1.0	
10	QPSK	25	27			22.99			
10	QPSK	50	0			22.91			
10	16QAM	1	1			22.85	24.0	1.0	
10	64QAM	1	1			21.43			
10	256QAM	1	1			19.45			
Channel				156100	156900	156100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				780.5	783	785.5			
5	QPSK	1	1	23.82	23.88	23.85		25.0	

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				1870	1862.5	1866	24.0	0.0
Frequency (MHz)								
40	PI2 BPSK	1	1	22.45	22.48	22.38	24.0	0.0
40	PI2 BPSK	1	108	22.29	22.39	22.31		
40	PI2 BPSK	1	214	22.28	22.54	22.38		
40	PI2 BPSK	108	0	22.03	22.18	22.07		
40	PI2 BPSK	108	54	22.38	22.52	22.41	23.5	0.5
40	PI2 BPSK	108	108	22.00	22.11	21.97		
40	PI2 BPSK	216	0	21.98	22.10	21.98		
40	QPSK	1	1	22.50	22.62	22.52		
40	QPSK	1	108	22.35	22.52	22.46	24.0	0.0
40	QPSK	1	214	22.38	22.57	22.42		
40	QPSK	108	0	21.52	21.56	21.51		
40	QPSK	108	54	22.41	22.59	22.43		
40	QPSK	108	108	21.48	21.58	21.46	23.0	1.0
40	QPSK	216	0	21.55	21.63	21.57		
40	16QAM	1	1	21.49	21.58	21.53		
40	64QAM	1	1	20.04	20.10	20.05		
40	256QAM	1	1	17.97	18.13	17.99	19.5	4.5
Channel				372000	376500	380000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1862.5	1900	24.0	0.0
30	QPSK	1	1	22.41	22.58	22.44	24.0	0.0
Channel				372950	376500	380000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1862.5	1902.5	24.0	0.0
25	QPSK	1	1	22.41	22.54	22.44	24.0	0.0
Channel				372000	376500	381000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1862.5	1904	24.0	0.0
20	QPSK	1	1	22.38	22.51	22.46	24.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1867.5	1862.5	1907.5	24.0	0.0
15	QPSK	1	1	22.41	22.55	22.40	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1865	1862.5	1910	24.0	0.0
10	QPSK	1	1	22.46	22.55	22.41	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				1862.5	1862.5	1912.5	24.0	0.0
5	QPSK	1	1	22.46	22.52	22.45	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				164800	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	838		
20	PI2 BPSK	1	1	23.50	23.38	23.54	24.0	0.0
20	PI2 BPSK	1	53	23.35	23.30	23.38		
20	PI2 BPSK	1	104	23.37	23.38	23.49		
20	PI2 BPSK	50	0	23.03	23.02	23.22		
20	PI2 BPSK	50	28	23.50	23.44	23.38	23.5	0.5
20	PI2 BPSK	50	56	23.12	23.06	23.21		
20	PI2 BPSK	100	0	23.09	23.07	23.21		
20	QPSK	1	1	23.58	23.51	23.66		
20	QPSK	1	53	23.50	23.42	23.52	24.0	0.0
20	QPSK	1	104	23.46	23.48	23.57		
20	QPSK	50	0	22.60	22.49	22.70		
20	QPSK	50	28	23.52	23.47	23.60		
20	QPSK	50	56	22.56	22.47	22.61	23.0	1.0
20	QPSK	100	0	22.63	22.49	22.62		
20	16QAM	1	1	22.95	22.91	22.96		
20	64QAM	1	1	21.11	20.98	21.13		
20	256QAM	1	1	19.05	19.01	19.15	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	23.53	23.44	23.54	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	23.53	23.48	23.60	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	23.45	23.45	23.54	24.0	0.0

n66 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	24.0	0.0	
Frequency (MHz)				1720	1745	1760			
40	PI/2 BPSK	1	1	22.76	22.85	22.74			
40	PI/2 BPSK	1	108	22.69	22.77	22.77	23.5	0.5	
40	PI/2 BPSK	1	214	22.72	22.79	22.72			
40	PI/2 BPSK	108	0	22.33	22.46	22.34			
40	PI/2 BPSK	108	54	22.77	22.85	22.75	23.5	0.5	
40	PI/2 BPSK	108	108	22.34	22.40	22.43			
40	PI/2 BPSK	216	0	22.39	22.48	22.40			
40	QPSK	1	1	22.87	22.95	22.89	24.0	0.0	
40	QPSK	1	108	22.76	22.82	22.80			
40	QPSK	1	214	22.77	22.85	22.77			
40	QPSK	108	0	21.88	21.95	21.90	23.0	1.0	
40	QPSK	108	54	22.80	22.84	22.75			
40	QPSK	108	108	21.90	21.93	21.90			
40	QPSK	216	0	21.82	22.01	21.83	23.0	1.0	
40	16QAM	1	1	21.84	21.97	21.84			
40	64QAM	1	1	20.39	20.42	20.42		21.5	
40	256QAM	1	1	18.39	18.48	18.37			
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
30	QPSK	1	1	22.73	22.92	22.78			
Channel				348000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	22.73	22.81	22.81			
Channel				345000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	22.78	22.86	22.84			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	22.77	22.90	22.84			
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	22.75	22.81	22.77			

n71 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				136000	136100	137600	24.0	0.0	
Frequency (MHz)				671	681.5	696			
20	PI/2 BPSK	1	1	22.67	22.77	22.73			
20	PI/2 BPSK	1	53	22.58	22.62	22.54	23.5	0.5	
20	PI/2 BPSK	1	104	22.68	22.65	22.64			
20	PI/2 BPSK	50	0	22.28	22.32	22.32			
20	PI/2 BPSK	50	26	22.69	22.68	22.68	23.5	0.5	
20	PI/2 BPSK	50	56	22.25	22.35	22.22			
20	PI/2 BPSK	100	0	22.30	22.29	22.27			
20	QPSK	1	1	22.76	22.82	22.78	24.0	0.0	
20	QPSK	1	53	22.62	22.69	22.68			
20	QPSK	1	104	22.71	22.72	22.72			
20	QPSK	50	0	21.76	21.83	21.79	23.0	1.0	
20	QPSK	50	28	22.62	22.74	22.68			
20	QPSK	50	56	21.71	21.83	21.81			
20	QPSK	100	0	21.71	21.84	21.82	23.0	1.0	
20	16QAM	1	1	21.78	21.76	21.74			
20	64QAM	1	1	20.30	20.35	20.28		21.5	
20	256QAM	1	1	18.26	18.37	18.33			
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5	24.0	0.0	
15	QPSK	1	1	22.64	22.73	22.63			
Channel				136000	136100	136600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693	24.0	0.0	
10	QPSK	1	1	22.58	22.68	22.67			
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				666.5	680.5	696.5	24.0	0.0	
5	QPSK	1	1	22.57	22.68	22.68			



Part270 n77 HPUE Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Tuneup limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)			650000	650000	660000		
				3750	3840	3930		
100	P2 BPSK	1	1	28.06	28.03	27.70		
100	P2 BPSK	1	137	27.94	27.93	27.49	29.0	0.0
100	P2 BPSK	1	271	28.03	28.03	27.70		
100	P2 BPSK	135	0	27.73	27.83	27.28	28.5	0.5
100	P2 BPSK	135	69	28.05	28.11	27.56	29.0	0.5
100	P2 BPSK	135	138	27.75	27.85	27.26	28.5	0.5
100	P2 BPSK	270	0	27.59	27.59	27.34	28.5	0.5
100	QPSK	1	1	28.10	28.16	27.78		
100	QPSK	1	137	28.14	27.88	27.67	29.0	0.0
100	QPSK	1	271	27.89	28.00	27.56		
100	QPSK	135	0	27.17	27.22	26.82	28.0	0.0
100	QPSK	135	69	28.06	28.08	27.68	29.0	0.0
100	QPSK	135	138	27.24	27.10	26.73	28.0	1.0
100	QPSK	270	0	27.18	27.23	26.76	29.0	0.0
100	16QAM	1	1	27.17	27.17	26.76	28.0	1.0
100	64QAM	1	1	25.65	25.65	25.26	25.5	2.5
100	256QAM	1	1	23.85	23.82	23.28	24.5	4.5
Channel								
	Frequency (MHz)			649608	650000	662334		
				3745.50	3840	3945.50		
90	QPSK	1	1	28.02	28.02	27.87	29.0	0.0
Channel								
	Frequency (MHz)			648334	650000	662668		
				3744.00	3840	3948.00		
80	QPSK	1	1	28.00	28.06	27.67	29.0	0.0
Channel								
	Frequency (MHz)			647000	650000	663000		
				3735	3840	3945		
70	QPSK	1	1	28.05	28.05	27.69	29.0	0.0
Channel								
	Frequency (MHz)			645668	650000	663332		
				3730.50	3840	3950.00		
60	QPSK	1	1	27.99	28.03	27.72	29.0	0.0
Channel								
	Frequency (MHz)			644334	650000	663668		
				3730.00	3840	3950.00		
50	QPSK	1	1	28.06	28.04	27.69	29.0	0.0
Channel								
	Frequency (MHz)			643000	650000	664000		
				3725	3840	3960		
40	QPSK	1	1	27.97	28.04	27.67	29.0	0.0
Channel								
	Frequency (MHz)			641668	650000	664332		
				3715.00	3840	3965.00		
30	QPSK	1	1	27.99	28.08	27.76	29.0	0.0
Channel								
	Frequency (MHz)			640200	650000	664500		
				3712.50	3840	3967.50		
25	QPSK	1	1	27.96	28.02	27.72	29.0	0.0
Channel								
	Frequency (MHz)			647334	650000	664668		
				3718.00	3840	3970.00		
20	QPSK	1	1	27.97	28.07	27.68	29.0	0.0
Channel								
	Frequency (MHz)			647168	650000	664834		
				3707.50	3840	3972.50		
15	QPSK	1	1	28.06	28.07	27.71	29.0	0.0
Channel								
	Frequency (MHz)			647000	650000	665000		
				3705	3840	3975		
10	QPSK	1	1	27.98	28.04	27.70	29.0	0.0



Part27Q n77 HPUE 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	P12 BPSK	1	1	27.74	3500.01		29.0	0.0				
100	P12 BPSK	1	137	27.73								
100	P12 BPSK	1	271	27.69								
100	P12 BPSK	135	0	27.38			28.5	0.5				
100	P12 BPSK	135	69	27.78								
100	P12 BPSK	135	138	27.40								
100	P12 BPSK	270	0	27.32			28.5	0.5				
100	QPSK	1	1	27.88								
100	QPSK	1	137	27.77								
100	QPSK	1	271	27.69			29.0	0.0				
100	QPSK	135	0	26.82								
100	QPSK	135	69	27.81								
100	QPSK	135	138	26.81			28.0	1.0				
100	QPSK	270	0	26.89								
100	16QAM	1	1	26.83								
100	64QAM	1	1	25.40			24.5	4.5				
100	256QAM	1	1	23.35								
Channel												
Frequency (MHz)												
90	QPSK	1	1	27.70	27.82	27.70	29.0	0.0				
Channel												
Frequency (MHz)												
80	QPSK	1	1	27.6988	27.8334	27.6400	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
80	QPSK	1	1	3490.02	3500.01	3510	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
70	QPSK	1	1	27.74	27.72	27.65	29.0	0.0				
Channel												
Frequency (MHz)												
70	QPSK	1	1	27.81	27.73	27.74	29.0	0.0				
Channel												
Frequency (MHz)												
60	QPSK	1	1	27.75	27.74	27.68	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
60	QPSK	1	1	27.75	27.74	27.72	29.0	0.0				
Channel												
Frequency (MHz)												
50	QPSK	1	1	27.73	27.72	27.71	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
50	QPSK	1	1	3314.01	3500.01	3503.34	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
40	QPSK	1	1	27.74	27.82	27.70	29.0	0.0				
Channel												
Frequency (MHz)												
40	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
30	QPSK	1	1	27.80	27.81	27.68	29.0	0.0				
Channel												
Frequency (MHz)												
30	QPSK	1	1	6300.04	6333.34	6358.04	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
25	QPSK	1	1	3462.81	3500.01	3527.81	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
25	QPSK	1	1	27.77	27.74	27.71	29.0	0.0				
Channel												
Frequency (MHz)												
25	QPSK	1	1	6306.08	6333.34	6360.00	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
20	QPSK	1	1	3490.02	3500.01	3505	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
20	QPSK	1	1	6300.00	6333.34	6361.08	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
15	QPSK	1	1	27.81	27.73	27.67	29.0	0.0				
Channel												
Frequency (MHz)												
15	QPSK	1	1	3353.01	3500.01	3528.01	Tune-up limit (dBm)	MPR				
Channel												
Frequency (MHz)												
15	QPSK	1	1	3455.01	3500.01	3465.01	29.0	0.0				
Channel												
Frequency (MHz)												
10	QPSK	1	1	27.77	27.74	27.73	29.0	0.0				

Part27Q n78 HPUE 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	P12 BPSK	1	1	27.84	3750	3750	29.0	0.0				
100	P12 BPSK	1	137	27.80								
100	P12 BPSK	1	271	27.81								
100	P12 BPSK	135	0	27.54			28.5	0.5				
100	P12 BPSK	135	69	26.95								
100	P12 BPSK	135	138	27.59								
100	P12 BPSK	270	0	27.46			28.5	0.5				
100	QPSK	1	1	28.10								
100	QPSK	1	137	27.92								
100	QPSK	1	271	28.02			29.0	1.0				
100	QPSK	135	0	27.11								
100	QPSK	135	69	28.02								
100	QPSK	135	138	27.05			28.0	1.0				
100	QPSK	270	0	27.13								
100	16QAM	1	1	27.13								
100	64QAM	1	1	26.62			26.5	2.5				
100	256QAM	1	1	23.52								
Channel												
64968 65000 65034												
Tune-up limit (dbm) MPR (db)												
90	QPSK	1	1	27.92	28.00	27.56	29.0	0.0				
Channel												
64834 65000 65068												
Tune-up limit (dbm) MPR (db)												
80	QPSK	1	1	3740.01	3750	3760.02	29.0	0.0				
Channel												
64900 65000 65100												
Tune-up limit (dbm) MPR (db)												
70	QPSK	1	1	3735	3750	3765	29.0	0.0				
Channel												
64834 65000 65168												
Tune-up limit (dbm) MPR (db)												
60	QPSK	1	1	27.80	28.05	27.60	29.0	0.0				
Channel												
64906 65000 65134												
Tune-up limit (dbm) MPR (db)												
50	QPSK	1	1	27.92	27.98	27.61	29.0	0.0				
Channel												
64834 65000 65168												
Tune-up limit (dbm) MPR (db)												
40	QPSK	1	1	3728.01	3750	3772.02	29.0	0.0				
Channel												
64900 65000 65200												
Tune-up limit (dbm) MPR (db)												
30	QPSK	1	1	27.88	27.99	27.60	29.0	0.0				
Channel												
3715.02 3750 3785.01												
Tune-up limit (dbm) MPR (db)												
20	QPSK	1	1	27.90	28.02	27.60	29.0	0.0				
Channel												
64790 65000 65290												
Tune-up limit (dbm) MPR (db)												
15	QPSK	1	1	3722.5	3750	3787.5	29.0	0.0				
Channel												
64794 65000 65294												
Tune-up limit (dbm) MPR (db)												
10	QPSK	1	1	27.90	28.04	27.56	29.0	0.0				
Channel												
64734 65000 65068												
Tune-up limit (dbm) MPR (db)												
5	QPSK	1	1	3710.01	3750	3790.02	29.0	0.0				
Channel												
64700 65000 65300												
Tune-up limit (dbm) MPR (db)												
0	QPSK	1	1	3705	3750	3795	29.0	0.0				
Channel												
64718 65000 65284												
Tune-up limit (dbm) MPR (db)												
0	QPSK	1	1	27.92	28.04	27.64	29.0	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	P12 BPSK	1	1	27.50	3500.01		29.0	0.0				
100	P12 BPSK	1	137	27.51								
100	P12 BPSK	1	271	27.43								
100	P12 BPSK	135	0	27.09			28.5	0.5				
100	P12 BPSK	135	69	27.50								
100	P12 BPSK	135	138	27.15								
100	P12 BPSK	270	0	27.09			28.5	0.5				
100	QPSK	1	1	27.62								
100	QPSK	1	137	27.51								
100	QPSK	1	271	27.49			29.0	0.0				
100	QPSK	135	0	26.52								
100	QPSK	135	69	27.54								
100	QPSK	135	138	26.60			28.0	1.0				
100	QPSK	270	0	26.60								
100	16QAM	1	1	26.55								
100	64QAM	1	1	25.12			24.5	4.5				
100	256QAM	1	1	23.12								
Channel												
Frequency (MHz)												
90	QPSK	1	1	27.49	27.59	27.40	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
80	QPSK	1	1	27.50	27.56	27.40	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
70	QPSK	1	1	27.45	27.55	27.50	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
60	QPSK	1	1	27.40	27.50	27.40	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
50	QPSK	1	1	27.45	27.55	27.51	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
40	QPSK	1	1	27.49	27.57	27.45	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
30	QPSK	1	1	27.46	27.56	27.46	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
25	QPSK	1	1	27.45	27.56	27.43	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
20	QPSK	1	1	27.46	27.56	27.46	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
15	QPSK	1	1	27.47	27.56	27.39	29.0	0.0	MPR (dB)			
Channel												
Frequency (MHz)												
10	QPSK	1	1	27.46	27.58	27.41	29.0	0.0	MPR (dB)			



n2 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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	P12 BPSK	1	1	22.39	22.58	22.49	24.0	0.0	
20	P12 BPSK	1	53	22.28	22.46	22.40			
20	P12 BPSK	1	104	22.36	22.54	22.40			
20	P12 BPSK	50	0	22.08	22.15	22.02	23.5	0.5	
20	P12 BPSK	50	26	22.41	22.55	22.52	24.0	0.0	
20	P12 BPSK	50	56	22.02	22.23	22.09	23.5	0.5	
20	P12 BPSK	100	0	22.09	22.24	22.06			
20	QPSK	1	1	22.51	22.69	22.58			
20	QPSK	1	53	22.38	22.56	22.47	24.0	0.0	
20	QPSK	1	104	22.40	22.62	22.52	23.0	1.0	
20	QPSK	50	0	21.66	21.73	21.61			
20	QPSK	50	26	22.46	22.56	22.46			
20	QPSK	50	56	21.49	21.70	21.58	23.0	1.0	
20	QPSK	100	0	21.49	21.74	21.64	23.0	1.0	
40	16QAM	1	1	21.53	21.68	21.54			
20	64QAM	1	1	20.00	20.17	20.12	21.5	2.5	
20	256QAM	1	1	18.02	18.17	18.04	19.5	4.5	
Channel				21000	210000	210000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1897.5	1880	1902.5			
15	QPSK	1	1	22.45	22.56	22.51	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.47	22.56	22.49	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1907.5			
5	QPSK	1	1	22.36	22.57	22.48	24.0	0.0	

n66 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				344000	349000	354000			
Frequency (MHz)				1720	1745	1765			
40	P12 BPSK	1	1	22.20	22.40	22.30	24.0	0.0	
40	P12 BPSK	1	108	22.03	22.25	22.22			
40	P12 BPSK	1	214	22.04	22.26	22.15			
40	P12 BPSK	108	0	21.09	21.91	21.63	23.5	0.5	
40	P12 BPSK	108	54	22.14	22.37	22.31	24.0	0.0	
40	P12 BPSK	108	108	21.74	21.99	21.85	23.5	0.5	
40	P12 BPSK	216	0	21.71	22.00	21.82			
40	QPSK	1	1	22.24	22.45	22.35			
40	QPSK	1	108	22.14	22.33	22.27	24.0	0.0	
40	QPSK	1	214	22.18	22.39	22.26	23.0	1.0	
40	QPSK	108	0	21.22	21.45	21.30			
40	QPSK	108	54	22.12	22.31	22.27			
40	QPSK	108	108	21.24	21.48	21.32	23.0	1.0	
40	QPSK	216	0	21.20	21.54	21.38	23.0	1.0	
40	16QAM	1	1	21.18	21.40	21.30			
40	64QAM	1	1	19.68	19.95	19.90	21.5	2.5	
40	256QAM	1	1	17.70	17.92	17.88	19.5	4.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.08	22.35	22.23	24.0	0.0	
Channel				346000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.10	22.35	22.22	24.0	0.0	
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1777.5			
15	QPSK	1	1	22.15	22.32	22.27	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1779			
10	QPSK	1	1	22.16	22.33	22.24	24.0	0.0	
Channel				342900	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.16	22.31	22.26	24.0	0.0	

FR1 n70 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				345000					
Frequency (MHz)				1702.5					
15	P12 BPSK	1	1		22.26		24.0	0.0	
15	P12 BPSK	1	40		22.16				
15	P12 BPSK	1	77		22.19				
15	P12 BPSK	36	0		21.65		23.5	0.5	
15	P12 BPSK	36	22		22.27		24.0	0.0	
15	P12 BPSK	36	43		21.67		23.5	0.5	
15	P12 BPSK	76	0		21.69				
15	QPSK	1	1		22.34				
15	QPSK	1	40		22.24		24.0	0.0	
15	QPSK	1	77		22.21		23.0	1.0	
15	QPSK	36	0		21.36				
15	QPSK	36	22		22.27				
15	QPSK	36	43		21.35		23.0	1.0	
15	16QAM	1	1		21.30		20.0	1.0	
15	64QAM	1	1		19.89		21.5	2.5	
15	256QAM	1	1		17.84		19.5	4.5	
Channel				34000	34500	34100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	P12 BPSK	1	1	22.19	22.21	22.23	0.0	0.0	
Channel				28800	34500	34100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	P12 BPSK	1	1	22.17	22.27	22.20	0.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	Pl2 BPSK	1	1	24.56	25.03	24.65	26.0	0.0
100	Pl2 BPSK	1	137	24.52	25.03	24.65		
100	Pl2 BPSK	1	271	24.56	25.03	24.65		
100	Pl2 BPSK	135	0	24.67	24.55	24.14		
100	Pl2 BPSK	135	69	24.54	25.03	24.65	25.5	0.5
100	Pl2 BPSK	135	138	24.08	24.52	24.14	25.5	0.5
100	Pl2 BPSK	270	0	24.08	24.56	24.14	26.0	0.0
100	QPSK	1	1	24.54	25.05	24.68		
100	QPSK	1	137	24.51	25.04	24.70		
100	QPSK	1	271	24.56	25.02	24.66		
100	QPSK	135	0	25.07	24.05	23.85	26.0	1.0
100	QPSK	135	69	24.55	25.02	24.69	26.0	0.0
100	QPSK	135	138	23.55	24.03	23.84	26.0	1.0
100	QPSK	270	0	23.58	24.04	23.64	26.0	1.0
100	16QAM	1	1	23.06	23.18	23.10		
100	64QAM	1	1	21.95	22.16	22.00		
100	256QAM	1	1	19.82	20.03	19.94		
Channel								
Frequency (MHz)				506200	515998	529998	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.53	25.01	24.67	26.0	0.0
Channel								
Frequency (MHz)				507204	515998	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.55	25.02	24.69	26.0	0.0
Channel								
Frequency (MHz)				546202	546202	546202	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.01	26.02	26.05	26.0	0.0
Channel								
Frequency (MHz)				5473	24.85	24.85	26.0	0.0
60	QPSK	1	1	2528	2592.99	2659.98	26.0	0.0
Channel								
Frequency (MHz)				50424	515998	523098	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.75	24.94	24.84	26.0	0.0
Channel								
Frequency (MHz)				505202	515998	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.79	24.92	24.85	26.0	0.0
Channel								
Frequency (MHz)				51101	515998	524996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.73	24.91	24.88	26.0	0.0
Channel								
Frequency (MHz)				51204	515998	529998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.06	26.02	26.09	26.0	0.0
Channel								
Frequency (MHz)				24.76	25.01	24.88	26.0	0.0
15	QPSK	1	1	24.75	24.89	24.84	26.0	0.0
Channel								
Frequency (MHz)				505202	515998	537000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.74	24.74	24.86	26.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pl2 BPSK	1	1	26.50	26.84	26.89	28.0	0.0		
100	Pl2 BPSK	1	137	26.30	26.99	26.87				
100	Pl2 BPSK	1	271	26.84	27.03	26.83				
100	Pl2 BPSK	135	0	26.50	26.51	26.40				
100	Pl2 BPSK	135	69	26.89	26.97	26.87	27.5	0.5		
100	Pl2 BPSK	135	138	26.43	26.52	26.46	27.5	0.5		
100	Pl2 BPSK	270	0	26.50	26.53	26.44	28.0	0.0		
100	QPSK	1	1	26.96	27.05	26.94				
100	QPSK	1	137	26.85	26.94	26.90				
100	QPSK	1	271	26.84	27.02	26.89				
100	QPSK	135	0	25.97	26.05	25.91	27.0	1.0		
100	QPSK	135	69	26.90	27.02	26.89	28.0	0.0		
100	QPSK	135	138	25.94	26.01	25.92	27.0	1.0		
100	QPSK	270	0	25.99	26.07	25.91	27.0	1.0		
100	16QAM	1	1	25.93	25.96	25.94				
100	64QAM	1	1	23.30	23.37	23.32				
100	256QAM	1	1	22.03	22.15	22.11				
Channel										
Frequency (MHz)										
90	QPSK	1	1	26.93	26.97	26.82	28.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.86	27.00	26.84	28.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	26.93	26.99	26.91	28.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	26.86	27.03	26.92	28.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.92	26.97	26.90	28.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.85	26.93	26.89	28.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	26.92	27.02	26.86	29.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.93	27.02	26.89	28.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.89	26.96	26.85	28.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	26.91	26.99	26.89	28.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	26.90	26.97	26.86	28.0	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	P2-BPSK	1	1		3500.01		28.0	0.0
100	P2-BPSK	1	137		26.81			
100	P2-BPSK	1	271		26.51			
100	P2-BPSK	135	0		26.15			
100	P2-BPSK	135	69		26.54		27.5	0.5
100	P2-BPSK	135	138		26.08		27.5	0.5
100	P2-BPSK	270	0		26.07		28.0	0.0
100	QPSK	1	1		26.87			
100	QPSK	1	137		26.62			
100	QPSK	1	271		26.61			
100	QPSK	135	0		25.86		27.0	1.0
100	QPSK	135	69		26.65		28.0	0.0
100	QPSK	135	138		25.58		27.0	1.0
100	QPSK	270	0		25.69			
100	16QAM	1	1		25.71			
100	64QAM	1	1		23.26			
100	256QAM	1	1		22.06		23.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	333000	333333	333666	28.0	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3500.01	3505.02	28.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	3485	3500.01	3515.01	28.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3460	3500.01	3520.02	28.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	3435	3500.01	3525.03	28.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3410	3500.01	3530.01	28.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3385	3500.01	3535.02	28.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	3360	3500.01	3540.03	28.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3335	3500.01	3545.01	28.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	3310	3500.01	3550.02	28.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	3285	3500.01	3555.01	28.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				37500	37500	37500			
100	PQ2 BPSK	1	1		26.99		28.0	0.0	
100	PQ2 BPSK	1	137		26.94				
100	PQ2 BPSK	1	271		26.98				
100	PQ2 BPSK	135	0		26.55	27.5			0.5
100	PQ2 BPSK	135	69		27.05		27.5	0.5	0.0
100	PQ2 BPSK	135	138		26.55				
100	PQ2 BPSK	270	0		26.52				
100	QPSK	1	1		27.07				
100	QPSK	1	137		27.01		28.0	0.0	
100	QPSK	1	271		26.98				
100	QPSK	135	0		25.99	27.0			1.0
100	QPSK	135	69		27.05	28.0			0.0
100	QPSK	135	138		26.06		27.0	1.0	
100	QPSK	270	0		25.97				
100	16QAM	1	1		26.09	27.0			1.0
100	64QAM	1	1		23.39	25.5			2.5
100	256QAM	1	1		22.26	23.5	4.5		
Channel				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	37500	3755.01			
90	QPSK	1	1		27.02	27.05	27.02	28.0	0.0
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	37500	3760.02			
80	QPSK	1	1		26.93	26.95	26.93	28.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				37350	37500	37650			
70	QPSK	1	1		26.92	26.97	26.96	28.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	37500	3770.01			
60	QPSK	1	1		26.91	26.89	26.89	28.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	37500	3775.02			
50	QPSK	1	1		26.94	26.94	26.95	28.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				37200	37500	37800			
40	QPSK	1	1		26.90	26.96	26.97	28.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	37500	3795.01			
30	QPSK	1	1		26.89	26.97	26.89	28.0	0.0
Channel				647300	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	37500	3797.5			
25	QPSK	1	1		26.94	27.00	26.91	28.0	0.0
Channel				647000	650000	652700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	37500	3790.02			
20	QPSK	1	1		26.94	26.93	26.93	28.0	0.0
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.62	37500	3792.51			
15	QPSK	1	1		26.86	26.95	26.97	28.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				37050	37500	37950			
10	QPSK	1	1		26.92	26.96	26.96	28.0	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					633334				
Frequency (MHz)					3600.01				
100	PQ2 BPSK	1	1		26.57		28.0	0.0	
100	PQ2 BPSK	1	137		26.47				
100	PQ2 BPSK	1	271		26.48				
100	PQ2 BPSK	135	0		26.07	27.5			0.5
100	PQ2 BPSK	135	69		26.51	28.0	27.5	0.5	
100	PQ2 BPSK	135	138		26.07				
100	PQ2 BPSK	270	0		26.16				
100	QPSK	1	1		26.08				
100	QPSK	1	137		26.59		28.0	0.0	
100	QPSK	1	271		26.59				
100	QPSK	135	0		25.62	27.0			1.0
100	QPSK	135	69		26.54	28.0			0.0
100	QPSK	135	138		26.59		27.0	1.0	
100	QPSK	270	0		25.64				
100	16QAM	1	1		25.66	27.0			1.0
100	64QAM	1	1		23.13	25.5			2.5
100	256QAM	1	1		21.87	23.5	4.5		
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	26.51	26.60	26.58	28.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	26.50	26.55	26.49	28.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	26.56	26.56	26.53	28.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	26.54	26.53	26.54	28.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.01	3500.01	3525			
50	QPSK	1	1	26.54	26.60	26.52	28.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	26.51	26.52	26.56	28.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3600.01	3535.02			
30	QPSK	1	1	26.54	26.53	26.49	28.0	0.0	
Channel				630668	633334	635934	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.01	3500.01	3537.51			
25	QPSK	1	1	26.52	26.54	26.54	28.0	0.0	
Channel				630334	633334	636000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.02	3500.01	3535.03			
20	QPSK	1	1	26.51	26.56	26.55	28.0	0.0	
Channel				630000	633334	636168	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3450.01	3500.01	3540			
15	QPSK	1	1	26.52	26.51	26.49	28.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	26.49	26.58	26.55	28.0	0.0	



n41 HPUE 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)				506020	518698	526000			
				2546.01	2552.99	2640			
100	Pl2 BPSK	1	1	24.66	25.04	25.03			
100	Pl2 BPSK	1	137	24.61	25.01	24.96	26.0	0.0	
100	Pl2 BPSK	1	271	24.86	25.01	25.02			
100	Pl2 BPSK	135	0	24.20	24.51	24.54	25.5	0.5	
100	Pl2 BPSK	135	69	24.80	25.02	24.98	26.0	0.0	
100	Pl2 BPSK	135	138	24.13	24.57	24.54	25.5	0.5	
100	Pl2 BPSK	270	0	24.20	24.56	24.54			
100	QPSK	1	1	24.67	25.05	25.04			
100	QPSK	1	137	24.59	25.03	24.97	26.0	0.0	
100	QPSK	1	271	24.57	24.98	25.01			
100	QPSK	135	0	23.89	24.09	24.04	25.0	1.0	
100	QPSK	135	69	24.80	25.01	25.00	26.0	0.0	
100	QPSK	135	138	23.99	24.09	24.07	25.0	1.0	
100	QPSK	270	0	23.95	24.03	24.01			
100	16QAM	1	1	23.26	22.82	23.30	25.0	1.0	
100	64QAM	1	1	21.98	21.51	22.00	23.5	2.5	
100	256QAM	1	1	20.11	19.73	20.19	21.5	4.5	
Channel									
Frequency (MHz)				506202	518598	525998	Tune-up limit (dBm)	MPR (dB)	
				2541	2552.99	2644.98	26.0	0.0	
90	QPSK	1	1	24.62	25.03	25.00	26.0	0.0	
Channel									
Frequency (MHz)				507204	518598	525998	Tune-up limit (dBm)	MPR (dB)	
				2542.02	2552.99	2649.98	26.0	0.0	
80	QPSK	1	1	24.61	25.02	24.96	26.0	0.0	
Channel									
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
				2531.01	2552.99	2655	26.0	0.0	
70	QPSK	1	1	24.60	25.43	24.99	23.0	0.0	
Channel									
Frequency (MHz)				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
				2526	2552.99	2659.98	26.0	0.0	
60	QPSK	1	1	24.63	25.03	25.02	26.0	0.0	
Channel									
Frequency (MHz)				505202	518598	532998	Tune-up limit (dBm)	MPR (dB)	
				2521.02	2552.99	2664.98	26.0	0.0	
50	QPSK	1	1	24.60	25.01	25.01	26.0	0.0	
Channel									
Frequency (MHz)				505202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
				2518.01	2552.99	2670	26.0	0.0	
40	QPSK	1	1	24.62	25.02	24.95	26.0	0.0	
Channel									
Frequency (MHz)				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
				2511	2552.99	2674.98	26.0	0.0	
30	QPSK	1	1	24.60	24.99	24.98	23.0	0.0	
Channel									
Frequency (MHz)				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
				2506.02	2552.99	2679.98	26.0	0.0	
20	QPSK	1	1	24.60	24.95	24.99	26.0	0.0	
Channel									
Frequency (MHz)				500700	518598	536998	Tune-up limit (dBm)	MPR (dB)	
				2503.5	2552.98	2682.48	26.0	0.0	
15	QPSK	1	1	24.63	24.98	24.96	26.0	0.0	
Channel									
Frequency (MHz)				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
				2503.11	2552.99	2680	26.0	0.0	
10	QPSK	1	1	24.61	24.91	24.95	24.0	0.0	

n48 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)				638000	641666	645332			
				3570	3624.99	3679.98			
40	Pl2 BPSK	1	1	23.31	24.04	23.58			
40	Pl2 BPSK	1	53	23.35	24.03	23.58	25.0	0.0	
40	Pl2 BPSK	1	104	23.32	24.01	23.52			
40	Pl2 BPSK	50	0	22.91	23.57	23.08	24.5	0.5	
40	Pl2 BPSK	50	28	23.37	23.97	23.57	25.0	0.0	
40	Pl2 BPSK	50	56	22.89	23.58	23.08	24.5	0.5	
40	Pl2 BPSK	100	0	22.93	23.55	23.06			
40	QPSK	1	1	23.40	24.06	23.61			
40	QPSK	1	53	23.36	24.02	23.58	25.0	0.0	
40	QPSK	1	104	23.34	23.98	23.53			
40	QPSK	50	0	22.38	23.07	22.58	24.0	1.0	
40	QPSK	50	28	23.31	23.97	23.56	25.0	0.0	
40	QPSK	50	56	22.39	23.05	22.63	24.0	1.0	
40	QPSK	100	0	22.36	23.06	22.58			
40	16QAM	1	1	23.14	23.25	23.19	24.0	1.0	
40	64QAM	1	1	21.56	21.75	21.70	22.5	2.5	
40	256QAM	1	1	19.70	19.77	19.73	20.5	4.5	
Channel									
Frequency (MHz)				637168	641666	645332	Tune-up limit (dBm)	MPR (dB)	
				3557.52	3624.99	3682.48	25.0	0.0	
20	QPSK	1	1	23.33	24.02	23.53	25.0	0.0	
Channel									
Frequency (MHz)				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
				3565	3624.98	3684.98	25.0	0.0	
15	QPSK	1	1	23.38	24.02	23.57	25.0	0.0	
Channel									
Frequency (MHz)				636834	641666	646500	Tune-up limit (dBm)	MPR (dB)	
				3552.51	3624.99	3697.5	25.0	0.0	
10	QPSK	1	1	23.34	23.99	23.55	25.0	0.0	

Par270 n77 HPUE 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)				650000	656000	662000			
				3700	3840	3900			
100	Pl2 BPSK	1	1	27.19	27.21	28.54			
100	Pl2 BPSK	1	137	27.16	27.16	27.26	28.0	0.0	
100	Pl2 BPSK	1	271	27.17	27.20	28.91			
100	Pl2 BPSK	135	0	26.76	26.76	26.46	27.5	0.5	
100	Pl2 BPSK	135	69	27.19	27.19	28.91	28.0	0.0	
100	Pl2 BPSK	135	138	26.76	26.80	26.48	27.5	0.5	
100	Pl2 BPSK	270	0	26.73	26.78	26.45			
100	QPSK	1	1	27.26	27.28	28.96			
100	QPSK	1	137	27.22	27.18	28.93	28.0	0.0	
100	QPSK	1	271	27.23	27.24	28.91			
100	QPSK	135	0	26.26	26.26	25.96	27.0	1.0	
100	QPSK	135	69	27.18	27.24	28.89	28.0	0.0	
100	QPSK	135	138	26.24	26.31	25.99	27.0	1.0	
100	QPSK	270	0	26.24	26.32	25.94			
100	16QAM	1	1	26.37	26.43	26.40	27.0	1.0	
100	64QAM	1	1	23.75	23.83	23.78	25.5	2.5	
100	256QAM	1	1	22.35	22.44	22.43	23.5	4.5	
Channel									
Frequency (MHz)				645000	650000	655534	Tune-up limit (dBm)	MPR (dB)	
				3745.02	3840	3935.01	28.0	0.0	
90	QPSK	1	1	27.18	27.23	26.86	28.0	0.0	
Channel									
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
				3740.01	3840	3940.02	28.0	0.0	
80	QPSK	1	1	27.20	27.22	28.87	28.0	0.0	
Channel									
Frequency (MHz)				650000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
				3735	3840	3945	28.0	0.0	
70	QPSK	1	1	27.24	27.22	28.91	28.0	0.0	
Channel									
Frequency (MHz)				649999	656000	663334	Tune-up limit (dBm)	MPR (dB)	
				3730.02	3840	3950.01	28.0	0.0	
60	QPSK	1	1	27.20	27.24	28.89	28.0	0.0	
Channel									
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
				3725.01	3840	3955.02	28.0	0.0	
50	QPSK	1	1	27.20	27.25	28.90	28.0	0.0	
Channel									
Frequency (MHz)				650000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
				3725	3840	3960	28.0	0.0	
40	QPSK	1	1	27.23	27.22	28.89	28.0	0.0	
Channel									
Frequency (MHz)				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
				3715.02	3840	3965.01	28.0	0.0	
30	QPSK	1	1	27.18	27.20	28.86	28.0	0.0	
Channel									
Frequency (MHz)				647000	656000	664500	Tune-up limit (dBm)	MPR (dB)	
				3712.54	3840	3967.5	28.0	0.0	
25	QPSK	1	1	27.19	27.22	28.92	28.0	0.0	
Channel									
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
				3710.01	3840	3970.02	28.0	0.0	
20	QPSK	1	1	27.19	27.18	28.91	28.0	0.0	
Channel									
Frequency (MHz)				647668	656000	664834	Tune-up limit (dBm)	MPR (dB)	
				3707.52	3840	3972.51	28.0	0.0	
15	QPSK	1	1	27.20	27.19	28.89	28.0	0.0	
Channel									
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
				3705	3840	3975	28.0	0.0	
10	QPSK	1	1	27.17	27.26	28.92	28.0	0.0	



Part27Q n77 HPUE 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				633334		3500.01			
Frequency (MHz)									
100	P12 BPSK	1	1	26.67			28.0	0.0	
100	P12 BPSK	1	137	26.70					
100	P12 BPSK	1	271	26.68					
100	P12 BPSK	135	0	26.31		27.5	0.5		
100	P12 BPSK	135	69	26.71		28.0	0.0		
100	P12 BPSK	135	138	26.25		27.5	0.5		
100	P12 BPSK	270	0	26.20					
100	QPSK	1	1	26.72			28.0	0.0	
100	QPSK	1	137	26.71					
100	QPSK	1	271	26.69					
100	QPSK	135	0	25.73		27.0	1.0		
100	QPSK	135	69	26.70		28.0	0.0		
100	QPSK	135	138	25.75		27.0	1.0		
100	QPSK	270	0	25.80					
100	16QAM	1	1	25.73		27.0	1.0		
100	64QAM	1	1	23.32		25.5	2.5		
100	256QAM	1	1	21.85		23.5	4.5		
Channel				633300	633334	633608	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)									
90	QPSK	1	1	26.62	26.68	26.64	28.0	0.0	
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3480.02	3500.01	3510			
80	QPSK	1	1	26.68	26.64	26.64	28.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	26.63	26.71	26.69	28.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3490.02	3500.01	3520.02			
60	QPSK	1	1	26.67	26.71	26.64	28.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3475.02	3500.01				
50	QPSK	1	1	26.61	26.67	26.70	28.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3473.01	3500.01	3530.01			
40	QPSK	1	1	26.63	26.70	26.64	28.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	26.67	26.66	26.70	28.0	0.0	
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.81	3500.01	3537.81			
25	QPSK	1	1	26.64	26.71	26.67	28.0	0.0	
Channel				630334	633334	636000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	26.62	26.70	26.68	28.0	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	26.68	26.68	26.68	28.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	26.64	26.70	26.67	28.0	0.0	

Part27Q n78 HPUE 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)				3750	3750	3750			
100	P12 BPSK	1	1	27.16			28.0	0.0	
100	P12 BPSK	1	137	27.04					
100	P12 BPSK	1	271	27.08					
100	P12 BPSK	135	0	26.68		27.5	0.5		
100	P12 BPSK	135	69	27.10		28.0	0.0		
100	P12 BPSK	135	138	26.74		27.5	0.5		
100	P12 BPSK	270	0	26.73					
100	QPSK	1	1	27.17			28.0	0.0	
100	QPSK	1	137	27.14					
100	QPSK	1	271	27.15					
100	QPSK	135	0	26.15		27.0	1.0		
100	QPSK	135	69	27.09		28.0	0.0		
100	QPSK	135	138	26.18		27.0	1.0		
100	QPSK	270	0	26.25					
100	16QAM	1	1	26.23		27.0	1.0		
100	64QAM	1	1	23.61		25.5	2.5		
100	256QAM	1	1	22.47		23.5	4.5		
Channel				648968	650000	650334	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3745.82	3750	3755.01			
90	QPSK	1	1	27.12	27.15	27.15	28.0	0.0	
Channel				648934	650000	650668	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	27.13	27.16	27.11	28.0	0.0	
Channel				648900	650000	651000	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	27.12	27.14	27.08	28.0	0.0	
Channel				648866	650000	651334	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	27.14	27.13	27.09	28.0	0.0	
Channel				648834	650000	651668	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3728.01	3750	3778.02			
50	QPSK	1	1	27.12	27.16	27.11	28.0	0.0	
Channel				648800	650000	652000	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	27.15	27.15	27.10	28.0	0.0	
Channel				648768	650000	652334	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	27.12	27.16	27.14	28.0	0.0	
Channel				648730	650000	652500	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3712.4	3750	382.5			
25	QPSK	1	1	27.13	27.14	27.13	28.0	0.0	
Channel				648734	650000	652668	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	27.15	27.15	27.12	28.0	0.0	
Channel				648698	650000	652834	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	27.11	27.16	27.14	28.0	0.0	
Channel				648603	650000	653000	Tune-up limit (dbm)	MPR	(db)
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	27.16	27.14	27.12	28.0	0.0	

Part27Q 78 HPUE 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				633334		3500.01			
Frequency (MHz)									
100	P12 BPSK	1	1	26.53			28.0	0.0	
100	P12 BPSK	1	137	26.42					
100	P12 BPSK	1	271	26.49					
100	P12 BPSK	135	0	26.09		27.5	0.5		
100	P12 BPSK	135	69	26.51		28.0	0.0		
100	P12 BPSK	135	138	26.09		27.5	0.5		
100	P12 BPSK	270	0	26.09					
100	QPSK	1	1	26.54			28.0	0.0	
100	QPSK	1	137	26.51					
100	QPSK	1	271	26.49					
100	QPSK	135	0	25.56		27.0	1.0		
100	QPSK	135	69	26.50		28.0	0.0		
100	QPSK	135	138	25.56		27.0	1.0		
100	QPSK	270	0	25.54					
100	16QAM	1	1	25.52		27.0	1.0		
100	64QAM	1	1	23.13		25.5	2.5		
100	256QAM	1	1	21.79		23.5	4.5		
Channel				633000	633334	633608	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3456	3500.01	3505.12			
90	QPSK	1	1	26.47	26.53	26.49	28.0	0.0	
Channel				632688	633334	634000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3460.12	3500.01	3510			
80	QPSK	1	1	26.48	26.47	26.50	28.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	26.52	26.52	26.50	28.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3472.62	3500.01	3520			
60	QPSK	1	1	26.53	26.50	26.45	28.0	0.0	
Channel				631334	633334	633534	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	26.50	26.52	26.51	28.0	0.0	
Channel				631000	633334	633568	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3485	3500.01	3535.02			
30	QPSK	1	1	26.53	26.48	26.46	28.0	0.0	
Channel				630884	633334	633584	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3468.51	3500.01	3507.81			
25	QPSK	1	1	26.48	26.49	26.48	28.0	0.0	
Channel				630688	633334	633600	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3462.02	3500.01	3540			
20	QPSK	1	1	26.45	26.52	26.48	28.0	0.0	
Channel				630500	633334	634168	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3457.5	3500.01	3542.52			
14.5	QPSK	1	1	26.49	26.48	26.47	28.0	0.0	
Channel				630334	633334	633834	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3545.01	3500.01	3545.01			
10	QPSK	1	1	26.50	26.51	26.47	28.0	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	PV2 BPSK	1	1		22.92		24.0	0.0
10	PV2 BPSK	1	26		22.79			
10	PV2 BPSK	1	50		22.81			
10	PV2 BPSK	25	0		22.47		23.5	0.5
10	PV2 BPSK	25	14		22.76		24.0	0.0
10	PV2 BPSK	25	27		22.46		23.5	0.5
10	PV2 BPSK	50	0		22.47			
10	QPSK	1	1		22.95		24.0	0.0
10	QPSK	1	26		22.87			
10	QPSK	1	50		22.90			
10	QPSK	25	0		21.92		23.0	1.0
10	QPSK	25	14		22.88		24.0	0.0
10	QPSK	25	27		21.97		23.0	1.0
10	QPSK	50	0		21.98			
10	16QAM	1	1		22.62		23.0	1.0
10	64QAM	1	1		21.07		21.5	2.5
10	256QAM	1	1		18.97		19.5	4.5
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	22.75	22.86	22.82	24.0	0.0



n41 HPUE 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				500200	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	22.35	22.61	22.58			
100	P12 BPSK	1	137	22.37	22.59	22.57	24.0	0.0	
100	P12 BPSK	1	271	22.39	22.56	22.59			
100	P12 BPSK	135	0	21.93	22.15	22.10	23.5	0.5	
100	P12 BPSK	135	69	22.41	22.48	22.55	24.0	0.0	
100	P12 BPSK	135	138	21.94	22.15	22.12	23.5	0.5	
100	P12 BPSK	270	0	21.98	22.09	22.14			
100	QPSK	1	1	22.45	22.66	22.63			
100	QPSK	1	137	22.35	22.84	22.63	24.0	0.0	
100	QPSK	1	271	22.59	22.61	22.50			
100	QPSK	135	0	21.79	21.22	21.55	23.0	1.0	
100	QPSK	135	69	22.16	22.55	22.50	24.0	0.0	
100	QPSK	135	138	21.44	21.57	21.80	23.0	1.0	
100	QPSK	270	0	21.47	21.52	21.51			
100	16QAM	1	1	21.06	21.03	21.07	23.0	1.0	
100	64QAM	1	1	19.53	19.52	19.58	21.5	2.5	
100	256QAM	1	1	17.54	17.52	17.53	19.5	4.5	
Channel				500200	518598	530000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.40	22.59	22.57	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.41	22.62	22.54	24.0	0.0	
Channel				505202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	22.37	22.61	22.56	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2592.99	2659.99			
60	QPSK	1	1	22.43	22.57	22.54	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.41	22.58	22.55	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.42	22.62	22.56	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.36	22.56	22.57	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.41	22.58	22.60	24.0	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.42	22.63	22.54	24.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.42	22.60	22.60	24.0	0.0	

Par270 n77 HPUE 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				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	26.54	26.71	26.58			
100	P12 BPSK	1	137	26.58	26.70	26.59	28.0	0.0	
100	P12 BPSK	1	271	26.55	26.65	26.60			
100	P12 BPSK	135	0	26.13	26.29	26.19	27.5	0.5	
100	P12 BPSK	135	69	26.58	26.66	26.68	28.0	0.0	
100	P12 BPSK	135	138	26.11	26.23	26.20	27.5	0.5	
100	P12 BPSK	270	0	26.06	26.24	26.25			
100	QPSK	1	1	26.72	26.73	26.65			
100	QPSK	1	137	26.84	26.70	26.60	28.0	0.0	
100	QPSK	1	271	26.69	26.71	26.64			
100	QPSK	135	0	25.55	25.81	25.68	27.0	1.0	
100	QPSK	135	69	26.55	26.72	26.62	28.0	0.0	
100	QPSK	135	138	25.56	25.75	25.66	27.0	1.0	
100	QPSK	270	0	25.61	25.71	25.67			
100	16QAM	1	1	25.63	25.75	25.70	27.0	1.0	
100	64QAM	1	1	23.55	23.54	23.52	25.5	2.5	
100	256QAM	1	1	21.76	21.81	21.80	23.5	4.5	
Channel				646668	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	26.65	26.65	26.61	28.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	26.70	26.68	26.60	28.0	0.0	
Channel				646000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.65	26.70	26.58	28.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	26.65	26.70	26.59	28.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	26.70	26.70	26.60	28.0	0.0	
Channel				645000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.63	26.69	26.60	28.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3965.01			
30	QPSK	1	1	26.67	26.69	26.62	28.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	26.64	26.68	26.57	28.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	26.63	26.72	26.64	28.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	26.68	26.68	26.59	28.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	26.64	26.65	26.62	28.0	0.0	

Part270q n77 HPUE 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				633334	633334	3500.01			
Frequency (MHz)									
100	P12 BPSK	1	1		26.43		28.0	0.0	
100	P12 BPSK	1	137		26.35				
100	P12 BPSK	1	271		26.36				
100	P12 BPSK	135	0		25.97		27.5	0.5	
100	P12 BPSK	135	69		26.43		28.0	0.0	
100	P12 BPSK	135	138		25.94		27.5	0.5	
100	P12 BPSK	270	0		25.93				
100	QPSK	1	1		26.45				
100	QPSK	1	137		25.41		28.0	0.0	
100	QPSK	1	271		26.41				
100	QPSK	135	0		25.94		27.0	1.0	
100	QPSK	135	69		26.41		28.0	0.0	
100	QPSK	135	138		25.96		27.0	1.0	
100	QPSK	270	0		25.94				
100	64QAM	1	1		25.50		27.0	1.0	
100	64QAM	1	1		22.98		25.5	2.5	
100	256QAM	1	1		21.84		23.5	4.5	
Channel				633300	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3486	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1	26.26	26.40	26.33	28.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	26.30	26.39	26.37	28.0	0.0	
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	26.32	26.41	26.36	28.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3488	3500.01	3510.02	(dBm)	(dB)	
60	QPSK	1	1	26.33	26.44	26.39	28.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	26.33	26.41	26.40	28.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	26.28	26.42	26.37	28.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	26.33	26.39	26.35	28.0	0.0	
Channel				630668	633334	635934	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1	26.29	26.44	26.41	28.0	0.0	
Channel				630334	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.05	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	26.29	26.41	26.39	28.0	0.0	
Channel				630000	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.6	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1	26.32	26.38	26.37	28.0	0.0	
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	26.32	26.38	26.33	28.0	0.0	

Part27O n78 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		26.68		28.0	0.0	
100	PI2 BPSK	1	137		26.61				
100	PI2 BPSK	1	271		26.58				
100	PI2 BPSK	135	0		26.14		27.5	0.5	
100	PI2 BPSK	135	69		26.64		28.0	0.0	
100	PI2 BPSK	135	138		26.11		27.5	0.5	
100	PI2 BPSK	270	0		26.21				
100	QPSK	1	1		26.77		28.0	0.0	
100	QPSK	1	137		26.59				
100	QPSK	1	271		26.67				
100	QPSK	135	0		25.66		27.0	1.0	
100	QPSK	135	69		26.61		28.0	0.0	
100	QPSK	135	138		25.66		27.0	1.0	
100	QPSK	270	0		25.65				
100	16QAM	1	1		25.85		27.0	1.0	
100	64QAM	1	1		23.17		25.5	2.5	
100	256QAM	1	1		21.87		23.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		23.61	23.65	23.54	28.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		23.55	23.54	23.52	28.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		23.54	23.60	23.57	28.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		23.57	23.62	23.59	28.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		23.58	23.66	23.52	28.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		23.60	23.63	23.60	28.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		23.57	23.60	23.53	28.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
25	QPSK	1	1		23.55	23.60	23.57	28.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
20	QPSK	1	1		23.57	23.60	23.54	28.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52 <td>3750</td> <td>3792.51</td> <td></td> <td colspan="2"></td>	3750	3792.51			
15	QPSK	1	1		23.54	23.64	23.53	28.0	0.0
Channel				647000	650000	653500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705 <td>3750</td> <td>3795</td> <td></td> <td colspan="2"></td>	3750	3795			
10	QPSK	1	1		23.57	23.63	23.59	28.0	0.0

Part27Q 78 HPUE 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				633000	633334	633668			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		26.34		28.0	0.0	
100	PI2 BPSK	1	137		26.26				
100	PI2 BPSK	1	271		26.15				
100	PI2 BPSK	135	0		25.82		27.5	0.5	
100	PI2 BPSK	135	69		26.26		28.0	0.0	
100	PI2 BPSK	135	138		25.89		27.5	0.5	
100	PI2 BPSK	270	0		25.83				
100	QPSK	1	1		26.36		28.0	0.0	
100	QPSK	1	137		26.32				
100	QPSK	1	271		26.27				
100	QPSK	135	0		25.30		27.0	1.0	
100	QPSK	135	69		26.31		28.0	0.0	
100	QPSK	135	138		25.31		27.0	1.0	
100	QPSK	270	0		25.35				
100	16QAM	1	1		25.33		27.0	1.0	
100	64QAM	1	1		23.04		25.5	2.5	
100	256QAM	1	1		21.66		23.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		26.31	26.28	26.36	28.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		26.29	26.29	26.38	28.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		26.30	26.30	26.30	28.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		26.32	26.35	26.30	28.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		26.25	26.34	26.31	28.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		26.25	26.29	26.33	28.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		26.27	26.35	26.32	28.0	0.0
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		26.24	26.32	26.31	28.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		26.32	26.32	26.28	28.0	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		26.29	26.34	26.33	28.0	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		26.34	26.34	26.32	28.0	0.0



Reduced Power Mode for Receive on

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				16600	16800	16900	23.0	0.0	
Frequency (MHz)				16600	16800	16900			
20	PI2 BPSK	1	1	21.40	21.40	21.38	23.0	0.0	
20	PI2 BPSK	1	53	21.32	21.27	21.30			
20	PI2 BPSK	1	104	21.41	21.38	21.22			
20	PI2 BPSK	50	0	21.32	21.27	21.28			
20	PI2 BPSK	50	28	21.26	21.23	21.24	23.0	0.0	
20	PI2 BPSK	50	56	21.33	21.31	21.21	23.0	0.0	
20	PI2 BPSK	100	0	21.26	21.27	21.27	23.0	0.0	
20	QPSK	1	1	21.54	21.60	21.56			
20	QPSK	1	53	21.46	21.41	21.45			
20	QPSK	1	104	21.56	21.57	21.36			
20	QPSK	50	0	21.62	21.59	21.43	23.0	0.0	
20	QPSK	50	28	21.42	21.44	21.42	23.0	0.0	
20	QPSK	50	56	21.47	21.47	21.41	23.0	0.0	
20	QPSK	100	0	21.36	21.42	21.40	23.0	0.0	
20	16QAM	1	1	21.42	21.41	21.32	23.0	0.0	
20	64QAM	1	1	20.11	20.23	19.91	21.5	1.5	
20	256QAM	1	1	18.10	18.06	17.99	18.5	3.5	
Channel				171000	172000	180000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	23.0	0.0	
15	QPSK	1	1	21.53	21.56	21.49	23.0	0.0	
Channel				171000	172000	180000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905	23.0	0.0	
10	QPSK	1	1	21.58	21.58	21.50	23.0	0.0	
Channel				170500	170000	181500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	23.0	0.0	
5	QPSK	1	1	21.53	21.57	21.47	23.0	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	167000	167800	24.0	0.0	
Frequency (MHz)				166800	167000	167800			
20	PI2 BPSK	1	1	23.41	23.44	23.45	24.0	0.0	
20	PI2 BPSK	1	53	23.41	23.42	23.40			
20	PI2 BPSK	1	104	23.45	23.42	23.41			
20	PI2 BPSK	50	0	22.59	23.08	22.96		0.5	
20	PI2 BPSK	50	28	23.40	23.49	23.39	24.0	0.0	
20	PI2 BPSK	50	56	23.05	23.11	22.95	23.5	0.5	
20	PI2 BPSK	100	0	23.10	23.12	23.03	24.0	0.0	
20	QPSK	1	1	23.55	23.58	23.51			
20	QPSK	1	53	23.50	23.54	23.47			
20	QPSK	1	104	23.50	23.53	23.45			
20	QPSK	50	0	22.56	22.56	22.47	23.0	1.0	
20	QPSK	50	28	23.46	23.51	23.48	24.0	0.0	
20	QPSK	50	56	22.67	22.67	22.50	23.0	1.0	
20	QPSK	100	0	22.51	22.59	22.52	23.0	1.0	
20	16QAM	1	1	22.53	22.56	22.49	23.0	1.0	
20	64QAM	1	1	21.09	21.03	21.04	21.5	2.5	
20	256QAM	1	1	19.02	19.05	19.06	19.5	4.5	
Channel				169300	167000	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1831.5	1836.5	1841.5	24.0	0.0	
15	QPSK	1	40	23.46	23.51	23.37	24.0	0.0	
Channel				168800	167000	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1830	1836.5	1844	24.0	0.0	
10	QPSK	1	26	23.46	23.41	23.40	24.0	0.0	
Channel				165300	167000	165300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1826.5	1836.5	1846.5	24.0	0.0	
5	QPSK	1	13	23.44	23.46	23.36	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	24.0	0.0	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.76	22.80	22.67	24.0	0.0	
40	PI2 BPSK	1	108	22.69	22.76	22.67			
40	PI2 BPSK	1	214	22.61	22.64	22.60			
40	PI2 BPSK	108	0	22.35	22.38	22.26		0.5	
40	PI2 BPSK	108	54	22.62	22.66	22.64	24.0	0.0	
40	PI2 BPSK	108	108	22.32	22.33	22.33	23.5	0.5	
40	PI2 BPSK	216	0	22.28	22.31	22.24	24.0	0.0	
40	QPSK	1	1	22.81	22.84	22.80			
40	QPSK	1	108	22.76	22.78	22.72			
40	QPSK	1	214	22.74	22.72	22.71			
40	QPSK	108	0	21.86	21.86	21.82	23.0	1.0	
40	QPSK	108	54	22.67	22.74	22.69	24.0	0.0	
40	QPSK	108	108	21.75	21.82	21.76	23.0	1.0	
40	QPSK	216	0	21.85	21.87	21.83	23.0	1.0	
40	16QAM	1	1	21.87	21.82	21.80	23.0	1.0	
40	64QAM	1	1	20.29	20.33	20.28	21.5	2.5	
40	256QAM	1	1	18.28	18.37	18.33	18.5	4.5	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.0	0.0	
30	QPSK	1	1	22.66	22.70	22.77	24.0	0.0	
Channel				502500	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0	
25	QPSK	1	1	22.74	22.78	22.67	24.0	0.0	
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	24.0	0.0	
20	QPSK	1	1	22.70	22.73	22.68	24.0	0.0	
Channel				501500	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0	
15	QPSK	1	1	22.77	22.81	22.73	24.0	0.0	
Channel				501000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	24.0	0.0	
10	QPSK	1	1	22.74	22.80	22.69	24.0	0.0	
Channel				500500	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0	
5	QPSK	1	1	22.68	22.79	22.66	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	24.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	Pl2 BPSK	1	1	22.41	22.41	22.37			
15	Pl2 BPSK	1	40	22.32	22.28	22.27	23.5	0.5	
15	Pl2 BPSK	1	77	22.28	22.26	22.19			
15	Pl2 BPSK	36	0	22.04	21.96	22.00			
15	Pl2 BPSK	36	22	22.35	22.42	22.35	24.0	0.0	
15	Pl2 BPSK	36	43	22.03	22.01	21.97	23.5	0.5	
15	Pl2 BPSK	75	0	21.96	22.07	21.96			
15	QPSK	1	1	22.49	22.51	22.48			
15	QPSK	1	40	22.44	22.41	22.40	24.0	0.0	
15	QPSK	1	77	22.39	22.41	22.34	23.0	1.0	
15	QPSK	36	0	21.51	21.56	21.52			
15	QPSK	36	22	22.45	22.46	22.33	24.0	0.0	
15	QPSK	36	43	21.45	21.53	21.54	23.0	1.0	
15	QPSK	75	0	21.47	21.55	21.46	23.0	1.0	
15	16QAM	1	1	21.52	21.48	21.53			
15	64QAM	1	1	19.94	20.03	19.96	21.5	2.5	
15	256QAM	1	1	17.36	17.56	18.00	19.5	4.5	
Channel				140900	141500	142100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	24.0	0.0	
10	QPSK	1	1	22.45	22.42	22.35	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	24.0	0.0	
5	QPSK	1	1	22.39	22.39	22.42	24.0	0.0	

n13 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						156400	24.0	0.0	
Frequency (MHz)						774			
10	Pl2 BPSK	1	1			22.02			
10	Pl2 BPSK	1	26			21.91	23.5	0.5	
10	Pl2 BPSK	1	50			21.93			
10	Pl2 BPSK	25	0			21.65			
10	Pl2 BPSK	25	14			22.06	24.0	0.0	
10	Pl2 BPSK	25	27			21.60	23.5	0.5	
10	Pl2 BPSK	50	0			21.62			
10	QPSK	1	1			22.13			
10	QPSK	1	26			22.01	24.0	0.0	
10	QPSK	1	50			22.04			
10	QPSK	25	0			21.07			
10	QPSK	25	14			22.08	24.0	0.0	
10	QPSK	25	27			21.14	23.0	1.0	
10	QPSK	50	0			21.16	23.0	1.0	
10	16QAM	1	1			21.99			
10	64QAM	1	1			20.62	21.5	2.5	
10	256QAM	1	1			18.57	19.5	4.5	
Channel				150900	156400	156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	782	784.5	24.0	0.0	
5	QPSK	1	1	21.98	22.01	21.92	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						156500	25.0	0.0	
Frequency (MHz)						784			
10	Pl2 BPSK	1	1			23.94			
10	Pl2 BPSK	1	26			23.76	24.5	0.5	
10	Pl2 BPSK	1	50			23.77			
10	Pl2 BPSK	25	0			23.39			
10	Pl2 BPSK	25	14			23.63	25.0	0.0	
10	Pl2 BPSK	25	27			23.48	24.5	0.5	
10	Pl2 BPSK	50	0			23.41			
10	QPSK	1	1			23.94			
10	QPSK	1	26			23.86	25.0	0.0	
10	QPSK	1	50			23.87			
10	QPSK	25	0			22.99			
10	QPSK	25	14			23.89	25.0	0.0	
10	QPSK	25	27			22.99	24.0	1.0	
10	QPSK	50	0			22.91	24.0	1.0	
10	16QAM	1	1			22.85			
10	64QAM	1	1			21.43	22.5	2.5	
10	256QAM	1	1			19.45	20.5	4.5	
Channel				156100	156900	156100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				780.5	783	785.5	25.0	0.0	
5	QPSK	1	1	23.82	23.88	23.85	25.0	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	376000	378000		
Frequency (MHz)				1870	1882.5	1895		
40	Pi/2 BPSK	1	1	21.30	21.40	21.27	23.0	0.0
40	Pi/2 BPSK	1	108	21.18	21.38	21.30		
40	Pi/2 BPSK	1	214	21.21	21.49	21.26		
40	Pi/2 BPSK	108	0	21.32	21.27	21.30	23.0	0.0
40	Pi/2 BPSK	108	44	21.20	21.27	21.14	23.0	0.0
40	Pi/2 BPSK	108	108	21.11	21.34	21.15	23.0	0.0
40	Pi/2 BPSK	216	0	21.10	21.31	21.19	23.0	0.0
40	QPSK	1	1	21.52	21.66	21.51		
40	QPSK	1	108	21.33	21.57	21.48		
40	QPSK	1	214	21.38	21.58	21.38	23.0	0.0
40	QPSK	108	0	21.37	21.45	21.31		
40	QPSK	108	54	21.40	21.55	21.45		
40	QPSK	108	108	21.24	21.56	21.28	23.0	0.0
40	QPSK	216	0	21.26	21.38	21.15	23.0	0.0
40	16QAM	1	1	21.24	21.48	21.23	23.0	0.0
40	64QAM	1	1	20.09	20.12	20.04	21.5	1.5
40	256QAM	1	1	17.56	18.13	18.01	19.5	3.5
Channel				372000	376000	380000		
Frequency (MHz)				1865	1882.5	1900		
30	QPSK	1	1	21.39	21.42	21.29	23.0	0.0
Channel				372000	376000	380000		
Frequency (MHz)				1865.5	1882.5	1902.5		
25	QPSK	1	1	21.35	21.30	21.36	23.0	0.0
Channel				372000	376000	381000		
Frequency (MHz)				1865	1882.5	1902		
20	QPSK	1	1	21.34	21.30	21.37	23.0	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1867.5	1882.5	1907.5		
15	QPSK	1	1	21.39	21.37	21.34	23.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1865	1884.5	1910		
10	QPSK	1	1	21.37	21.31	21.38	23.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1862.5	1882.5	1912.5		
5	QPSK	1	1	21.37	21.35	21.29	23.0	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				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	Pi/2 BPSK	1	1	23.50	23.53	23.54	24.0	0.0
20	Pi/2 BPSK	1	63	23.35	23.30	23.38		
20	Pi/2 BPSK	1	104	23.37	23.36	23.49		
20	Pi/2 BPSK	50	0	23.03	23.02	23.22	23.5	0.5
20	Pi/2 BPSK	50	28	23.50	23.44	23.58	24.0	0.0
20	Pi/2 BPSK	50	56	23.12	23.06	23.21	23.5	0.5
20	Pi/2 BPSK	100	0	23.09	23.07	23.21	24.0	0.0
20	QPSK	1	1	23.58	23.51	23.66		
20	QPSK	1	63	23.50	23.42	23.52		
20	QPSK	1	104	23.46	23.48	23.57	23.0	1.0
20	QPSK	50	0	22.60	22.49	22.70		
20	QPSK	50	28	23.52	23.47	23.60		
20	QPSK	50	56	22.56	22.47	22.61	23.0	1.0
20	QPSK	100	0	22.63	22.49	22.52	23.0	1.0
20	16QAM	1	1	22.55	22.51	22.56		
20	64QAM	1	1	21.11	20.98	21.13		
20	256QAM	1	1	19.05	19.01	19.15	19.5	4.0
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	23.53	23.44	23.54	24.0	0.0
Channel				163800	166300	168800		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.53	23.46	23.60	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.48	23.45	23.54	24.0	0.0

n66 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	21.0	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	19.86	20.02	19.99		
40	PI2 BPSK	1	108	19.81	19.80	19.78		
40	PI2 BPSK	1	214	19.72	19.82	19.73	21.0	0.0
40	PI2 BPSK	108	0	19.96	19.90	19.92	21.0	0.0
40	PI2 BPSK	108	54	19.74	19.84	19.84	21.0	0.0
40	PI2 BPSK	108	108	19.79	19.80	19.76	21.0	0.0
40	PI2 BPSK	216	0	19.76	19.81	19.77	21.0	0.0
40	QPSK	1	1	19.90	20.05	19.95		
40	QPSK	1	108	19.74	19.80	19.81		
40	QPSK	1	214	19.87	19.82	19.77		
40	QPSK	108	0	19.82	19.94	19.87	21.0	0.0
40	QPSK	108	54	19.78	19.96	19.83	21.0	0.0
40	QPSK	108	108	19.86	19.90	19.78	21.0	0.0
40	QPSK	216	0	19.73	19.83	19.78	21.0	0.0
40	16QAM	1	1	19.87	19.99	19.80	21.0	0.0
40	64QAM	1	1	19.69	19.82	19.84	21.0	0.0
40	256QAM	1	1	18.25	18.39	18.16	19.5	1.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.91	19.92	19.95	21.0	0.0
Channel				348000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.92	20.02	19.91	21.0	0.0
Channel				345000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5		
15	QPSK	1	1	19.81	20.01	19.97	21.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.90	20.03	19.95	21.0	0.0
Channel				342500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.86	19.98	19.90	21.0	0.0

n71 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				136000	136100	137600	23.0	0.0
Frequency (MHz)				21.71	21.83	21.84		
20	PI2 BPSK	1	1	21.81	21.84	21.84		
20	PI2 BPSK	1	53	21.63	21.75	21.74		
20	PI2 BPSK	1	104	21.76	21.69	21.68	23.0	0.0
20	PI2 BPSK	50	0	21.75	21.80	21.74	23.0	0.0
20	PI2 BPSK	50	26	21.66	21.62	21.62	23.0	0.0
20	PI2 BPSK	50	56	21.68	21.75	21.74	23.0	0.0
20	PI2 BPSK	100	0	21.76	21.69	21.77	23.0	0.0
20	QPSK	1	1	21.81	21.88	21.74		
20	QPSK	1	53	21.60	21.66	21.64		
20	QPSK	1	104	21.73	21.69	21.77		
20	QPSK	50	0	21.69	21.70	21.72	23.0	0.0
20	QPSK	50	28	21.66	21.76	21.68	23.0	0.0
20	QPSK	50	56	21.67	21.67	21.70	23.0	0.0
20	QPSK	100	0	21.76	21.78	21.73	23.0	0.0
20	16QAM	1	1	21.76	21.76	21.74	23.0	0.0
20	64QAM	1	1	20.30	20.35	20.28	21.5	1.5
20	256QAM	1	1	18.26	18.37	18.33	19.5	2.5
Channel				136100	136100	136100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	21.68	21.74	21.68	23.0	0.0
Channel				136000	136100	136000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	21.71	21.77	21.74	23.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				666.5	680.5	696.5		
5	QPSK	1	1	21.70	21.76	21.76	23.0	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	Pi2 BPSK	1	1	22.81	22.82	22.87	24.0	0.0	
40	Pi2 BPSK	1	53	22.72	22.88	22.86			
40	Pi2 BPSK	1	104	22.80	22.81	22.76			
40	Pi2 BPSK	50	0	22.44	22.48	22.41	23.5	0.5	
40	Pi2 BPSK	50	28	22.85	22.83	22.78	24.0	0.0	
40	Pi2 BPSK	50	56	22.46	22.48	22.40	23.5	0.5	
40	Pi2 BPSK	100	0	22.49	22.43	22.43	24.0	0.0	
40	QPSK	1	1	22.94	22.96	22.92			
40	QPSK	1	53	22.80	22.83	22.78			
40	QPSK	1	104	22.90	22.93	22.88	23.0	1.0	
40	QPSK	50	0	21.91	21.98	21.95	23.0	1.0	
40	QPSK	50	28	22.82	22.84	22.82	24.0	0.0	
40	QPSK	50	56	21.91	21.93	21.90	23.0	1.0	
40	QPSK	100	0	21.95	21.97	21.92	23.0	1.0	
40	16QAM	1	1	21.98	21.92	21.88			
40	64QAM	1	1	20.42	20.47	20.47	21.5	2.5	
40	256QAM	1	1	18.45	18.41	18.38	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.82	22.86	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.86	22.87	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	22.14	22.85	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.78	22.86	22.81	24.0	0.0	

n41 HPUE 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	Pi2 BPSK	1	1	24.89	24.96	24.94	26.0	0.0	
100	Pi2 BPSK	1	137	24.77	24.98	24.92			
100	Pi2 BPSK	1	271	24.90	24.90	24.89			
100	Pi2 BPSK	135	0	24.54	24.64	24.61	25.5	0.5	
100	Pi2 BPSK	135	69	25.02	25.06	24.93	26.0	0.0	
100	Pi2 BPSK	135	138	24.54	24.57	24.51	25.5	0.5	
100	Pi2 BPSK	270	0	24.54	24.57	24.52	26.0	0.0	
100	QPSK	1	1	24.94	25.11	24.99			
100	QPSK	1	137	24.85	24.97	24.83			
100	QPSK	1	271	25.00	25.01	25.00	25.0	1.0	
100	QPSK	135	0	23.90	23.98	24.04	25.0	1.0	
100	QPSK	135	69	24.95	24.96	24.89	26.0	0.0	
100	QPSK	135	138	24.02	24.08	24.00	25.0	1.0	
100	QPSK	270	0	24.00	24.06	24.04	25.0	1.0	
100	16QAM	1	1	24.14	24.07	24.00			
100	64QAM	1	1	22.47	22.59	22.66	23.5	2.5	
100	256QAM	1	1	20.65	20.43	20.48	21.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.87	25.05	24.95	26.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.91	25.06	24.89	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.87	25.03	24.89	26.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.89	25.02	24.94	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.88	25.01	24.86	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.87	25.07	24.88	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.88	24.98	24.86	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.82	25.06	24.91	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.87	25.01	24.94	26.0	0.0	

Par270 n77 HPUE 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	Pi2 BPSK	1	1	26.06	26.08	27.70	29.0	0.0	
100	Pi2 BPSK	1	137	27.94	27.91	27.49			
100	Pi2 BPSK	1	271	26.03	26.03	27.60			
100	Pi2 BPSK	135	0	27.73	27.63	27.28	28.5	0.5	
100	Pi2 BPSK	135	69	26.05	26.11	27.56	29.0	0.0	
100	Pi2 BPSK	135	138	27.71	27.66	27.26	28.5	0.5	
100	Pi2 BPSK	270	0	27.59	27.59	27.34	28.5	0.5	
Channel									
100	QPSK	1	1	26.10	26.16	27.78	29.0	0.0	
100	QPSK	1	137	26.14	27.98	27.56			
100	QPSK	1	271	27.99	26.10	27.66			
100	QPSK	135	0	27.17	27.22	26.82	29.0	0.0	
100	QPSK	135	69	26.06	26.08	27.69	29.0	0.0	
100	QPSK	135	138	27.24	27.10	26.73	29.0	0.0	
100	QPSK	270	0	27.16	27.23	26.76	28.0	1.0	
100	16QAM	1	1	27.17	27.17	26.79			
100	64QAM	1	1	25.65	25.85	25.26	26.5	2.5	
100	256QAM	1	1	23.66	23.62	23.26	24.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.02	26.12	27.67	29.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.04	26.06	26.66	29.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.05	26.05	27.69	29.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	27.99	26.03	27.72	29.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.06	26.04	27.69	29.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	27.97	26.04	27.67	29.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	27.99	26.08	27.76	29.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	27.96	26.02	27.72	29.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	27.94	26.06	26.66	29.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	27.98	26.07	27.71	29.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	27.98	26.04	27.70	29.0	0.0	

Part27Q n77 HPUE Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Time up limit (dBm)	MPR (dB)
	Channel				635334			
	Frequency (Mhz)				635351			
100	P12 BPSK	1	1	27.74				
100	P12 BPSK	1	1	27.73			29.0	0.0
100	P12 BPSK	1	231	27.74				
100	P12 BPSK	135	6	27.78			28.5	0.5
100	P12 BPSK	135	69	27.78			28.5	0.5
100	P12 BPSK	135	138	27.77			28.5	0.5
100	P12 BPSK	210	0	27.32				
150	QPSK	1	1	27.88				
150	QPSK	1	137	27.77			29.0	0.0
150	QPSK	1	231	27.69				
150	QPSK	135	0	26.82			29.0	0.0
150	QPSK	135	69	27.81			29.0	0.0
150	QPSK	135	138	26.81			29.0	0.0
150	QPSK	210	0	26.49			29.0	0.0
150	16QAM	1	1	26.83			28.0	1.0
150	16QAM	1	1	26.80			26.5	2.5
150	256QAM	1	1	23.35			24.5	4.5
	Channel			635000	635334	635668		
	Frequency (Mhz)			634985	635351	635682		
90	QPSK	1	1	27.70	27.82	27.70	29.0	0.0
	Channel			635668	635334	634900		
	Frequency (Mhz)			635683	635351	634915		
80	QPSK	1	1	27.74	27.72	27.65	29.0	0.0
	Channel			634534	635334	634354		
	Frequency (Mhz)			634519	635351	634340		
70	QPSK	1	1	27.81	27.67	27.74	29.0	0.0
	Channel			635200	635334	635350		
	Frequency (Mhz)			634800	635351	3500.02		
60	QPSK	1	1	27.75	27.74	27.72	29.0	0.0
	Channel			631668	635334	635000		
	Frequency (Mhz)			631652	635351	635015		
50	QPSK	1	1	27.73	27.72	27.71	29.0	0.0
	Channel			631334	635334	635354		
	Frequency (Mhz)			631319	635351	635369		
40	QPSK	1	1	27.74	27.62	27.70	29.0	0.0
	Channel			631000	635334	635668		
	Frequency (Mhz)			630985	635351	635682		
30	QPSK	1	1	27.80	27.81	27.68	29.0	0.0
	Channel			630634	635334	635554		
	Frequency (Mhz)			630619	635351	635569		
25	QPSK	1	1	27.77	27.74	27.71	29.0	0.0
	Channel			630668	635334	636000		
	Frequency (Mhz)			630653	635351	636015		
20	QPSK	1	1	27.80	27.75	27.65	29.0	0.0
	Channel			630300	635334	636168		
	Frequency (Mhz)			630285	635351	636182		
15	QPSK	1	1	27.61	27.63	27.67	29.0	0.0
	Channel			630334	635334	636334		
	Frequency (Mhz)			630319	635351	636349		
10	QPSK	1	1	27.73	27.73	27.73	29.0	0.0

Part270 n78 HPUE Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq (MHz)	Power Middle Ch. Freq (MHz)	Power High Ch. Freq (MHz)	Time-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
		Frequency (MHz)		3750	3750	3750		
100	P2 BPSK	1	1	27.94	27.94			
100	P2 BPSK	1	137	27.80	27.80	29.0	0.0	
100	P2 BPSK	1	271	27.81	27.81			
100	P2 BPSK	135	0	28.54	28.54	28.5	0.5	
100	P2 BPSK	135	69	28.05	28.05	28.0	0.0	
100	P2 BPSK	135	138	27.58	27.58	28.5	0.5	
100	P2 BPSK	270	0	27.46	27.46			
100	QPSK	1	1	28.10				
100	QPSK	1	137	27.92		29.0	0.0	
100	QPSK	1	271	28.02				
100	QPSK	135	0	27.11		29.0	0.0	
100	QPSK	135	69			29.0	0.0	
100	QPSK	135	138	27.02		29.0	0.0	
100	QPSK	270	0	27.13		29.0	0.0	
100	16QAM	1	1	27.13		28.0	1.0	
100	64QAM	1	1	26.62		26.5	2.5	
100	256QAM	1	1	23.52		24.5	4.5	
Channel				66968	66968	66234		
		Frequency (MHz)		3745.02	3745.02	3745.02	Time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	27.92	28.00	27.58	29.0	0.0
Channel				648334	650000	650668		
		Frequency (MHz)		3740.01	3740.01	3740.01	Time-up limit (dBm)	MPR (dB)
80	QPSK	1	1	27.49	28.09	27.59	29.0	0.0
Channel				648334	650000	651000		
		Frequency (MHz)		3735	3735	3735	Time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	27.80	28.05	27.80	29.0	0.0
Channel				648334	650000	651234		
		Frequency (MHz)		3730.02	3730.02	3730.02	Time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	27.88	27.88	27.61	29.0	0.0
Channel				648334	650000	651668		
		Frequency (MHz)		3725.01	3725.01	3725.01	Time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	27.96	28.07	27.93	29.0	0.0
Channel				648000	650000	652000		
		Frequency (MHz)		3720	3730	3738	Time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	27.88	27.88	27.60	29.0	0.0
Channel				647668	650000	652334		
		Frequency (MHz)		3715.02	3750	3785.01	Time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	27.90	28.02	27.80	29.0	0.0
Channel				647500	650000	652500		
		Frequency (MHz)		3712.51	3750	3792.5	Time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	27.90	28.04	27.80	29.0	0.0
Channel				647334	650000	652668		
		Frequency (MHz)		3710.01	3750	3785.02	Time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	27.49	27.99	27.62	29.0	0.0
Channel				647168	650000	652834		
		Frequency (MHz)		3707.52	3750	3792.51	Time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	27.86	28.04	27.83	29.0	0.0
Channel				647000	650000	653000		
		Frequency (MHz)		3705	3750	3795	Time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	27.92	28.04	27.64	29.0	0.0

Par27Q 78 HPUE Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Qu./Freq.	Power Middle Qu./Freq.	Power High Qu./Freq.	Time-up limit (dBm)	MPR (dB)
Channel								
	Frequency (MHz)				635334	3600.01		
100	P22 BPSK	1	1	27.50				
100	P22 BPSK	1	137	27.51			29.0	0.0
100	P22 BPSK	1	271	27.50				
100	P22 BPSK	135	0	27.09			28.5	0.5
100	P22 BPSK	135	69	27.09			29.0	0.0
100	P22 BPSK	135	138	27.16			28.5	0.5
100	P22 BPSK	270	0	27.09				
100	QPSK	1	1	27.62				
100	QPSK	1	137	27.51			29.0	0.0
100	QPSK	1	271	27.48				
100	QPSK	135	0	26.52			29.0	0.0
100	QPSK	135	69	27.60			29.0	0.0
100	QPSK	135	138	26.84			29.0	0.0
100	QPSK	270	0	26.80				
100	16QAM	1	1	29.55			28.0	1.0
100	64QAM	1	1	25.12			26.5	2.5
100	256QAM	1	1	23.12			24.5	4.5
Channel								
	Frequency (MHz)			635000	635334	635668	Time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	27.49	27.59	27.40	29.0	0.0
Channel								
	Frequency (MHz)			635668	635334	634000	Time-up limit (dBm)	MPR (dB)
90	QPSK	1	1	27.50	27.58	27.43	29.0	0.0
Channel								
	Frequency (MHz)			632334	635334	634334	Time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	27.45	27.60	27.50	29.0	0.0
Channel								
	Frequency (MHz)			635000	635334	635668	Time-up limit (dBm)	MPR (dB)
70	QPSK	1	1	27.49	27.61	27.45	29.0	0.0
Channel								
	Frequency (MHz)			3480	3500.01	3520.02	Time-up limit (dBm)	MPR (dB)
60	QPSK	1	1	27.43	27.56	27.41	29.0	0.0
Channel								
	Frequency (MHz)			631668	635334	635000	Time-up limit (dBm)	MPR (dB)
50	QPSK	1	1	27.46	27.56	27.51	29.0	0.0
Channel								
	Frequency (MHz)			631334	635334	636334	Time-up limit (dBm)	MPR (dB)
40	QPSK	1	1	27.48	27.61	27.45	29.0	0.0
Channel								
	Frequency (MHz)			631000	635334	635668	Time-up limit (dBm)	MPR (dB)
30	QPSK	1	1	27.45	27.58	27.42	29.0	0.0
Channel								
	Frequency (MHz)			3485.58	3500.01	3520.02	Time-up limit (dBm)	MPR (dB)
25	QPSK	1	1	27.49	27.56	27.40	29.0	0.0
Channel								
	Frequency (MHz)			636668	635334	634000	Time-up limit (dBm)	MPR (dB)
20	QPSK	1	1	27.47	27.60	27.45	29.0	0.0
Channel								
	Frequency (MHz)			630500	635334	636168	Time-up limit (dBm)	MPR (dB)
15	QPSK	1	1	27.48	27.66	27.38	29.0	0.0
Channel								
	Frequency (MHz)			3455.01	3500.01	3545.01	Time-up limit (dBm)	MPR (dB)
10	QPSK	1	1	27.46	27.58	27.41	29.0	0.0

FR1 n70 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					340500			
Frequency (MHz)					1702.5			
15	Pi2 BPSK	1	1		16.31		18.0	0.0
15	Pi2 BPSK	1	40		16.19			
15	Pi2 BPSK	1	77		16.19			
15	Pi2 BPSK	36	0		16.21		18.0	0.0
15	Pi2 BPSK	36	22		16.22		18.0	0.0
15	Pi2 BPSK	36	43		16.19			
15	Pi2 BPSK	75	0		16.19		18.0	0.0
15	QPSK	1	1		16.36		18.0	0.0
15	QPSK	1	40		16.19			
15	QPSK	1	77		16.24			
15	QPSK	36	0		16.21		18.0	0.0
15	QPSK	36	22		16.34		18.0	0.0
15	QPSK	36	43		16.20			
15	QPSK	75	0		16.25		18.0	0.0
15	16QAM	1	1		16.21		18.0	0.0
15	64QAM	1	1		16.23		18.0	0.0
15	256QAM	1	1		16.20		18.0	0.0
Channel				340000	340500	341000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	Pi2 BPSK	1	1	16.25	16.24	16.26	18.0	0.0
Channel				339500	340500	341500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	Pi2 BPSK	1	1	16.22	16.21	16.20	18.0	0.0



n41 HPUE 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				509200	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	19.68	20.14	19.88			
100	PV2 BPSK	1	137	19.73	20.21	19.79		0.0	
100	PV2 BPSK	1	271	19.83	20.16	19.97			
100	PV2 BPSK	135	0	19.79	20.20	19.93	21.0	0.0	
100	PV2 BPSK	135	69	19.70	20.28	19.82	21.0	0.0	
100	PV2 BPSK	135	138	19.66	20.27	19.81			
100	PV2 BPSK	270	0	19.73	20.16	19.82			
100	QPSK	1	1	19.87	20.33	19.88			
100	QPSK	1	137	19.75	20.20	19.91	21.0	0.0	
100	QPSK	1	271	19.68	20.30	19.89			
100	QPSK	135	0	19.85	20.19	19.80	21.0	0.0	
100	QPSK	135	69	19.70	20.31	19.80	21.0	0.0	
100	QPSK	135	138	19.76	20.15	19.75			
100	QPSK	270	0	19.73	20.19	19.79	21.0	0.0	
100	16QAM	1	1	19.69	20.20	19.83	21.0	0.0	
100	64QAM	1	1	19.69	20.15	19.91	21.0	0.0	
100	256QAM	1	1	19.88	20.17	19.83	21.0	0.0	
Channel				509200	511598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.70	20.20	19.91	21.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.01	2592.99	2648.99			
80	QPSK	1	1	19.72	20.25	19.92	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.69	20.24	19.99	21.0	0.0	
Channel				502200	511598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	19.70	20.23	19.95	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2694.99			
50	QPSK	1	1	19.61	20.19	19.88	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.73	20.21	19.93	21.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.70	20.13	19.98	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.69	20.21	19.89	21.0	0.0	
Channel				500700	511598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	19.68	20.17	19.87	21.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.72	20.23	19.88	21.0	0.0	

Par270 n77 HPUE 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				650000	650000	652000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	19.49	19.81	19.36			
100	PV2 BPSK	1	137	19.30	19.45	19.36	20.5	0.0	
100	PV2 BPSK	1	271	19.23	19.51	19.39			
100	PV2 BPSK	135	0	19.51	19.48	19.37	20.5	0.0	
100	PV2 BPSK	135	69	19.25	19.53	19.48	20.5	0.0	
100	PV2 BPSK	135	138	19.42	19.51	19.37			
100	PV2 BPSK	270	0	19.45	19.54	19.35	20.5	0.0	
100	QPSK	1	1	19.52	19.65	19.43			
100	QPSK	1	137	19.37	19.49	19.37	20.5	0.0	
100	QPSK	1	271	19.36	19.62	19.46			
100	QPSK	135	0	19.52	19.55	19.50	20.5	0.0	
100	QPSK	135	69	19.26	19.61	19.51	20.5	0.0	
100	QPSK	135	138	19.37	19.53	19.31			
100	QPSK	270	0	19.40	19.53	19.39	20.5	0.0	
100	16QAM	1	1	19.57	19.58	19.44	20.5	0.0	
100	64QAM	1	1	19.35	19.51	19.48	20.5	0.0	
100	256QAM	1	1	19.32	19.51	19.42	20.5	0.0	
Channel				646668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.34	19.39	19.39	20.5	0.0	
Channel				648334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3743.01	3840	3940.02			
80	QPSK	1	1	19.52	19.43	19.39	20.5	0.0	
Channel				646000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	19.53	19.52	19.51	20.5	0.0	
Channel				646000	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.39	19.41	19.37	20.5	0.0	
Channel				646334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.46	19.45	19.34	20.5	0.0	
Channel				646000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.38	19.43	19.26	20.5	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.36	19.38	19.30	20.5	0.0	
Channel				647500	650000	654500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	19.53	19.38	19.33	20.5	0.0	
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.34	19.40	19.31	20.5	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	19.52	19.51	19.30	20.5	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	19.46	19.46	19.24	20.5	0.0	

Part27Q n77 HPUE 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				633334	633334				
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1	19.09					
100	PV2 BPSK	1	137		19.12		20.5		0.0
100	PV2 BPSK	1	271		19.21				
100	PV2 BPSK	135	0		19.11		20.5		0.0
100	PV2 BPSK	135	69		19.04		20.5		0.0
100	PV2 BPSK	135	138		19.01				
100	PV2 BPSK	270	0		19.07		20.5		0.0
100	QPSK	1	1	19.20					
100	QPSK	1	137		19.20		20.5		0.0
100	QPSK	1	271		19.07				
100	QPSK	135	0		19.21		20.5		0.0
100	QPSK	135	69		19.23		20.5		0.0
100	QPSK	135	138		19.20				
100	QPSK	270	0		19.19		20.5		0.0
100	16QAM	1	1	19.06			20.5		0.0
100	64QAM	1	1	19.05			20.5		0.0
100	256QAM	1	1	19.01					
Channel				633000	633334	633668			
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1	19.16	19.08	19.02	20.5		0.0
Channel				636688	633334	634000			
Frequency (MHz)				3470.02	3500.01	3510			
80	QPSK	1	1	19.10	19.09	19.06	20.5		0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3516.01			
70	QPSK	1	1	19.11	19.09	19.07	20.5		0.0
Channel				632000	633334	634668			
Frequency (MHz)				3485	3500.01	3520.02			
60	QPSK	1	1	19.08	19.08	19.01	20.5		0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.05	19.06	19.05	20.5		0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	19.18	19.12	19.09	20.5		0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	19.08	19.00	19.02	20.5		0.0
Channel				630634	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	19.10	19.04	19.02	20.5		0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.09	19.07	19.03	20.5		0.0
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	19.12	19.00	19.00	20.5		0.0
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	19.08	19.00	19.09	20.5		0.0

Part27O n78 HPUE 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				850000	850000	850000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		19.47		20.5	0.0	
100	PI2 BPSK	1	137		19.39				
100	PI2 BPSK	1	271		19.48				
100	PI2 BPSK	135	0		19.43		20.5	0.0	
100	PI2 BPSK	135	69		19.32		20.5	0.0	
100	PI2 BPSK	135	138		19.31		20.5	0.0	
100	PI2 BPSK	270	0		19.52				
100	QPSK	1	1		19.54		20.5	0.0	
100	QPSK	1	137		19.51				
100	QPSK	1	271		19.30				
100	QPSK	135	0		19.43		20.5	0.0	
100	QPSK	135	69		19.45		20.5	0.0	
100	QPSK	135	138		19.43		20.5	0.0	
100	QPSK	270	0		19.37				
100	16QAM	1	1		19.46		20.5	0.0	
100	64QAM	1	1		19.39		20.5	0.0	
100	256QAM	1	1		19.39		20.5	0.0	
Channel				849988	850000	850034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.51	19.46	19.36	20.5	0.0
Channel				849334	850000	850068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		19.46	19.48	19.29	20.5	0.0
Channel				849000	850000	851000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		19.50	19.53	19.29	20.5	0.0
Channel				848668	850000	851334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		19.49	19.46	19.40	20.5	0.0
Channel				848334	850000	851668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		19.43	19.47	19.30	20.5	0.0
Channel				848000	850000	852000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		19.53	19.43	19.29	20.5	0.0
Channel				847668	850000	852334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		19.47	19.40	19.38	20.5	0.0
Channel				847500	850000	852000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		19.48	19.42	19.43	20.5	0.0
Channel				847334	850000	852668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.46	19.41	19.41	20.5	0.0
Channel				847168	850000	852834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		19.48	19.40	19.40	20.5	0.0
Channel				847000	850000	853000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		19.49	19.49	19.31	20.5	0.0

Part27Q 78 HPUE 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					833334	833334			
Frequency (MHz)					3500.01				
100	PI2 BPSK	1	1		19.16		20.5	0.0	
100	PI2 BPSK	1	137		19.12				
100	PI2 BPSK	1	271		19.15				
100	PI2 BPSK	135	0		19.14		20.5	0.0	
100	PI2 BPSK	135	69		19.07		20.5	0.0	
100	PI2 BPSK	135	138		19.08		20.5	0.0	
100	PI2 BPSK	270	0		19.16				
100	QPSK	1	1		19.21		20.5	0.0	
100	QPSK	1	137		19.13				
100	QPSK	1	271		19.15				
100	QPSK	135	0		19.16		20.5	0.0	
100	QPSK	135	69		19.17		20.5	0.0	
100	QPSK	135	138		19.11		20.5	0.0	
100	QPSK	270	0		19.14				
100	16QAM	1	1		19.15		20.5	0.0	
100	64QAM	1	1		19.11		20.5	0.0	
100	256QAM	1	1		19.08		20.5	0.0	
Channel				833000	833334	833668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		19.94	19.15	19.05	20.5	0.0
Channel				832668	833334	834000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		19.02	19.14	19.13	20.5	0.0
Channel				832334	833334	834334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		19.08	19.14	19.14	20.5	0.0
Channel				832000	833334	834668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		19.00	19.15	19.13	20.5	0.0
Channel				831668	833334	835000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		19.04	19.09	19.12	20.5	0.0
Channel				831334	833334	835334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		19.06	19.13	19.01	20.5	0.0
Channel				831000	833334	835668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		19.02	19.12	19.08	20.5	0.0
Channel				830634	833334	835834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		18.96	19.15	19.01	20.5	0.0
Channel				830368	833334	836000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		18.95	19.04	19.06	20.5	0.0
Channel				830500	833334	836168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		18.99	19.16	19.11	20.5	0.0
Channel				830334	833334	836334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		18.99	19.10	19.11	20.5	0.0



n41 HPUE Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dB)	Power Middle Ch. / Freq. (dB)	Power High Ch. / Freq. (dB)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2546.01	2552.99	2640			
100	Pl2 BPSK	1	1	20.73	21.58	21.07	22.0	0.0	
100	Pl2 BPSK	1	137	20.62	21.52	21.03			
100	Pl2 BPSK	1	271	20.61	21.59	21.12			
100	Pl2 BPSK	135	0	20.76	21.62	21.10	22.0	0.0	
100	Pl2 BPSK	135	69	20.74	21.61	20.95	22.0	0.0	
100	Pl2 BPSK	135	138	20.61	21.50	21.09	22.0	0.0	
100	Pl2 BPSK	270	0	20.68	21.62	21.10	22.0	0.0	
100	QPSK	1	1	20.69	21.69	21.04			
100	QPSK	1	137	20.63	21.65	21.08			
100	QPSK	1	271	20.57	21.58	21.06	22.0	0.0	
100	QPSK	135	0	20.69	21.54	21.17			
100	QPSK	135	69	20.61	21.62	21.10			
100	QPSK	135	138	20.62	21.56	21.07	22.0	0.0	
100	QPSK	270	0	20.77	21.62	21.04	22.0	0.0	
100	16QAM	1	1	20.71	21.59	21.03	22.0	0.0	
100	64QAM	1	1	20.66	21.54	21.06	22.0	0.0	
100	256QAM	1	1	20.07	21.00	20.49	21.5	0.5	
Channel				525203	518998	525999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.99	2644.98			
90	QPSK	1	1	20.72	21.57	21.04	22.0	0.0	
Channel				507204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2634.02	2642.99	2648.98			
80	QPSK	1	1	20.70	21.60	21.05	22.0	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2552.99	2655			
70	QPSK	1	1	20.70	21.57	21.03	22.0	0.0	
Channel				502300	518998	531999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2552.99	2659.98			
60	QPSK	1	1	20.68	21.58	21.03	22.0	0.0	
Channel				525203	518998	532999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2552.99	2664.98			
50	QPSK	1	1	20.75	21.53	21.08	22.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2552.99	2670			
40	QPSK	1	1	20.75	21.61	21.06	22.0	0.0	
Channel				502200	518998	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2552.99	2674.98			
30	QPSK	1	1	20.68	21.57	21.08	22.0	0.0	
Channel				507204	518998	535999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2552.99	2679.98			
20	QPSK	1	1	20.77	21.55	21.09	22.0	0.0	
Channel				500700	518998	536999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.01	2552.99	2682.48			
15	QPSK	1	1	20.71	21.63	21.08	22.0	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2552.99	2680			
10	QPSK	1	1	20.72	21.53	21.04	22.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dB)	Power Middle Ch. / Freq. (dB)	Power High Ch. / Freq. (dB)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				636000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	Pl2 BPSK	1	1	13.44	13.95	13.68	15.0	0.0	
40	Pl2 BPSK	1	53	13.31	14.07	13.57			
40	Pl2 BPSK	1	104	13.40	14.06	13.64			
40	Pl2 BPSK	50	0	13.38	13.98	13.55	15.0	0.0	
40	Pl2 BPSK	50	28	13.34	13.99	13.43	15.0	0.0	
40	Pl2 BPSK	50	56	13.29	13.84	13.40	15.0	0.0	
40	Pl2 BPSK	100	0	13.34	13.92	13.52	15.0	0.0	
40	QPSK	1	1	13.31	14.11	13.43			
40	QPSK	1	53	13.26	13.93	13.58			
40	QPSK	1	104	13.22	14.05	13.57	15.0	0.0	
40	QPSK	50	0	13.45	13.80	13.47			
40	QPSK	50	28	13.38	14.10	13.43			
40	QPSK	50	56	13.25	14.09	13.62	15.0	0.0	
40	QPSK	100	0	13.22	14.00	13.58	15.0	0.0	
40	16QAM	1	1	13.20	13.83	13.64			
40	64QAM	1	1	13.28	14.02	13.37			
40	256QAM	1	1	13.28	14.00	13.43	15.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3682.48			
20	QPSK	1	1	13.45	14.09	13.52	15.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3445	3624.99	3644.98			
15	QPSK	1	1	13.42	14.06	13.58	15.0	0.0	
Channel				636834	641666	646500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.51	3624.99	3697.5			
10	QPSK	1	1	13.31	14.04	13.50	15.0	0.0	

Par270 n77 HPUE Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. (dB)	Power Middle Ch. / Freq. (dB)	Power High Ch. / Freq. (dB)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	656000	662000			
				3760	3840	3900			
100	Pl2 BPSK	1	1	15.35	15.22	14.95	16.0	0.0	
100	Pl2 BPSK	1	137	15.12	15.24	14.93			
100	Pl2 BPSK	1	271	15.27	15.14	14.92			
100	Pl2 BPSK	135	0	15.30	15.19	15.05	16.0	0.0	
100	Pl2 BPSK	135	69	15.18	15.26	14.97	16.0	0.0	
100	Pl2 BPSK	135	138	15.32	15.23	14.94	16.0	0.0	
100	Pl2 BPSK	270	0	15.16	15.15	14.80	16.0	0.0	
100	QPSK	1	1	15.19	15.37	14.97			
100	QPSK	1	137	15.17	15.25	14.86			
100	QPSK	1	271	15.17	15.17	14.93	16.0	0.0	
100	QPSK	135	0	15.11	15.21	14.88			
100	QPSK	135	69	15.25	15.32	14.85			
100	QPSK	135	138	15.15	15.17	14.96	16.0	0.0	
100	QPSK	270	0	15.12	15.21	14.90	16.0	0.0	
100	16QAM	1	1	15.22	15.18	15.05			
100	64QAM	1	1	15.21	15.18	14.89			
100	256QAM	1	1	15.16	15.28	14.96	16.0	0.0	
Channel				646668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.22	15.14	14.83	16.0	0.0	
Channel				646334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.01	3840	3940.02			
80	QPSK	1	1	15.09	15.30	14.92	16.0	0.0	
Channel				646000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.27	15.27	14.91	16.0	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.14	15.27	14.87	16.0	0.0	
Channel				646334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.27	15.25	14.92	16.0	0.0	
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3960			
40	QPSK	1	1	15.11	15.28	14.87	16.0	0.0	
Channel				645766	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.27	15.25	14.89	16.0	0.0	
Channel				645500	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.24	3840	3967.1			
25	QPSK	1	1	15.09	15.23	14.93	16.0	0.0	
Channel				647334	656000	666668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.04	3840	3970.02			
20	QPSK	1	1	15.22	15.25	14.94	16.0	0.0	
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.26	15.29	14.92	16.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.16	15.16	14.81	16.0	0.0	



Part27Q n77 HPUE 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	P12 BPSK	1	1		3500.01				
100	P12 BPSK	1	1		14.78				
100	P12 BPSK	1	137		14.77		16.0	0.0	
100	P12 BPSK	1	271		14.78				
100	P12 BPSK	135	0		14.73		16.0	0.0	
100	P12 BPSK	135	69		14.61		16.0	0.0	
100	P12 BPSK	135	138		14.61		16.0	0.0	
100	P12 BPSK	270	0		14.62				
100	QPSK	1	1		14.80				
100	QPSK	1	137		14.78		16.0	0.0	
100	QPSK	1	271		14.75				
100	QPSK	135	0		14.73		16.0	0.0	
100	QPSK	135	69		14.77		16.0	0.0	
100	QPSK	135	138		14.76		16.0	0.0	
100	QPSK	270	0		14.65				
100	16QAM	1	1		14.75		16.0	0.0	
100	64QAM	1	1		14.66		16.0	0.0	
100	256QAM	1	1		14.76		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
				3485	3500.01	3505.02			
90	QPSK	1	1	14.64	14.70	14.56	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632068	633334	634000	Tune-up limit (dBm)	MPR	(dB)
				3489.02	3500.01	3510			
80	QPSK	1	1	14.58	14.59	14.72	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	631048	633334	634334	Tune-up limit (dBm)	MPR	(dB)
				3485.01	3500.01	3515.01			
70	QPSK	1	1	14.71	14.69	14.69	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	630000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
				3480	3500.01	3520.02			
60	QPSK	1	1	14.52	14.78	14.58	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
				3475.02	3500.01	3525			
50	QPSK	1	1	14.57	14.62	14.69	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633334	635334	Tune-up limit (dBm)	MPR	(dB)
				3470.01	3500.01	3530.01			
40	QPSK	1	1	14.55	14.72	14.67	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
				3465	3500.01	3535.02			
30	QPSK	1	1	14.67	14.62	14.55	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630544	633334	636000	Tune-up limit (dBm)	MPR	(dB)
				3462.51	3500.01	3537.51			
25	QPSK	1	1	14.60	14.68	14.63	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	636300	Tune-up limit (dBm)	MPR	(dB)
				3460.02	3500.01	3540			
20	QPSK	1	1	14.70	14.56	14.63	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630000	633334	636168	Tune-up limit (dBm)	MPR	(dB)
				3457.5	3500.01	3522.52			
15	QPSK	1	1	14.65	14.68	14.69	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
				3465.01	3500.01	3545.01			
10	QPSK	1	1	14.65	14.75	14.70	16.0	0.0	

Part27Q n78 HPUE 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	P12 BPSK	1	1		3750	3750			
100	P12 BPSK	1	1		15.18				
100	P12 BPSK	1	137		15.31		16.0	0.0	
100	P12 BPSK	1	271		15.12				
100	P12 BPSK	135	0		15.22		16.0	0.0	
100	P12 BPSK	135	69		15.11		16.0	0.0	
100	P12 BPSK	135	138		15.17		16.0	0.0	
100	P12 BPSK	270	0		15.10				
Channel									
Frequency (MHz)									
100	QPSK	1	1		15.32				
100	QPSK	1	137		15.07		16.0	0.0	
100	QPSK	1	271		15.07				
100	QPSK	135	0		15.17		16.0	0.0	
100	QPSK	135	69		15.20		16.0	0.0	
100	QPSK	135	138		15.16		16.0	0.0	
100	QPSK	270	0		15.15				
100	16QAM	1	1		15.07		16.0	0.0	
100	64QAM	1	1		15.22		16.0	0.0	
100	256QAM	1	1		15.10		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649680	650000	650320	Tune-up limit (dBm)	MPR	(dB)
				3745.52	3750	3754.51			
90	QPSK	1	1	15.11	15.15	15.14	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
				3740.01	3750	3760.02			
80	QPSK	1	1	15.19	15.10	15.08	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
				3735	3750	3765			
70	QPSK	1	1	15.20	15.17	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
				3730.02	3750	3770.01			
60	QPSK	1	1	15.13	15.25	15.24	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
				3725.01	3750	3775.02			
50	QPSK	1	1	15.19	15.10	15.18	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
				3720	3750	3780			
40	QPSK	1	1	15.03	15.11	15.23	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
				3715.02	3750	3785.01			
30	QPSK	1	1	15.03	15.23	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
				3710.01	3750	3790.02			
25	QPSK	1	1	15.04	15.10	15.24	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
				3705	3750	3795			
20	QPSK	1	1	15.17	15.17	15.20	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	646768	650000	653668	Tune-up limit (dBm)	MPR	(dB)
				3707.52	3750	3792.51			
15	QPSK	1	1	15.15	15.21	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
				3705	3750	3795			
10	QPSK	1	1	15.20	15.16	15.10	16.0	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	P12 BPSK	1	1		14.53				
100	P12 BPSK	1	137		14.46		16.0	0.0	
100	P12 BPSK	1	271		14.55				
100	P12 BPSK	135	0		14.50		16.0	0.0	
100	P12 BPSK	135	69		14.50		16.0	0.0	
100	P12 BPSK	135	138		14.53		16.0	0.0	
100	P12 BPSK	270	0		14.56		16.0	0.0	
Channel									
100	QPSK	1	1		14.72				
100	QPSK	1	137		14.47		16.0	0.0	
100	QPSK	1	271		14.58				
100	QPSK	135	0		14.61		16.0	0.0	
100	QPSK	135	69		14.69		16.0	0.0	
100	QPSK	135	138		14.54		16.0	0.0	
100	QPSK	270	0		14.53		16.0	0.0	
100	16QAM	1	1		14.47				
100	64QAM	1	1		14.66		16.0	0.0	
100	256QAM	1	1		14.52		16.0	0.0	
Channel									
90	QPSK	1	1	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
90	QPSK	1	1	14.47	14.60	14.57	16.0	0.0	
Channel									
86	QPSK	1	1	63668	63934	64300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
86	QPSK	1	1	14.60	14.60	14.56	16.0	0.0	
Channel									
70	QPSK	1	1	63334	63534	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
70	QPSK	1	1	14.48	14.60	14.61	16.0	0.0	
Channel									
60	QPSK	1	1	63668	63534	63650	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
60	QPSK	1	1	14.42	14.45	14.48	16.0	0.0	
Channel									
50	QPSK	1	1	63154	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
50	QPSK	1	1	14.44	14.50	14.54	16.0	0.0	
Channel									
40	QPSK	1	1	63000	63234	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
40	QPSK	1	1	14.40	14.50	14.54	16.0	0.0	
Channel									
30	QPSK	1	1	63150	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	14.44	14.52	14.54	16.0	0.0	
Channel									
25	QPSK	1	1	63634	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	QPSK	1	1	14.62	14.60	14.57	16.0	0.0	
Channel									
25	QPSK	1	1	14.48	14.46	14.46	16.0	0.0	
Channel									
20	QPSK	1	1	63668	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	14.50	14.50	14.50	16.0	0.0	
Channel									
15	QPSK	1	1	63000	63334	63618	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	14.49	14.55	14.49	16.0	0.0	
Channel									
10	QPSK	1	1	63534	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	14.41	14.43	14.57	16.0	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		17.0	0.0
Frequency (MHz)					2310			
10	PV2 BPSK	1	1		15.93		17.0	0.0
10	PV2 BPSK	1	26		15.91			
10	PV2 BPSK	1	50		15.94			
10	PV2 BPSK	25	0		15.93		17.0	0.0
10	PV2 BPSK	25	14		15.92		17.0	0.0
10	PV2 BPSK	25	27		15.85		17.0	0.0
10	PV2 BPSK	50	0		15.82			
10	QPSK	1	1		15.97		17.0	0.0
10	QPSK	1	26		15.92			
10	QPSK	1	50		15.90			
10	QPSK	25	0		15.89		17.0	0.0
10	QPSK	25	14		15.93		17.0	0.0
10	QPSK	25	27		15.85		17.0	0.0
10	QPSK	50	0		15.82			
10	16QAM	1	1		15.93		17.0	0.0
10	64QAM	1	1		15.88		17.0	0.0
10	256QAM	1	1		15.89		17.0	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	15.74	15.91	15.87	17.0	0.0



n41 HPUE 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				505020	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	20.87	21.13	21.04			
100	PV2 BPSK	1	137	20.87	21.09	21.11		0.0	
100	PV2 BPSK	1	271	20.91	21.06	21.06			
100	PV2 BPSK	135	0	20.71	20.97	20.92	22.5	0.0	
100	PV2 BPSK	135	69	20.71	20.98	20.98	22.5	0.0	
100	PV2 BPSK	135	138	20.79	21.00	21.07	22.5	0.0	
100	PV2 BPSK	270	0	20.72	20.98	21.06			
100	QPSK	1	1	21.00	21.20	21.11			
100	QPSK	1	137	20.84	21.13	21.13	22.5	0.0	
100	QPSK	1	271	21.11	21.14	21.01			
100	QPSK	135	0	20.78	20.98	21.02	22.5	0.0	
100	QPSK	135	69	20.76	21.11	21.01	22.5	0.0	
100	QPSK	135	138	20.98	21.09	20.96	22.5	0.0	
100	QPSK	270	0	20.82	21.01	20.99			
100	16QAM	1	1	20.68	20.88	21.02	22.5	0.0	
100	64QAM	1	1	19.43	19.46	19.55	21.5	1.0	
100	256QAM	1	1	17.45	17.48	17.43	19.5	3.0	
Channel				505200	518598	530000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.85	21.10	21.07	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	20.83	21.10	21.09	22.5	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	20.81	21.07	21.07	22.5	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.99			
60	QPSK	1	1	20.86	21.10	21.10	22.5	0.0	
Channel				508404	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.86	21.14	21.04	22.5	0.0	
Channel				508200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.80	21.14	21.09	22.5	0.0	
Channel				508200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	20.86	21.06	21.02	22.5	0.0	
Channel				501004	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.02	2592.99	2679.99			
20	QPSK	1	1	20.86	21.12	21.02	22.5	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	20.80	21.08	21.02	22.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	20.85	21.12	21.01	22.5	0.0	

Par270 n77 HPUE 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				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	18.50	18.72	18.65			
100	PV2 BPSK	1	137	18.50	18.72	18.67	20.0	0.0	
100	PV2 BPSK	1	271	18.53	18.67	18.58			
100	PV2 BPSK	135	0	18.64	18.71	18.62	20.0	0.0	
100	PV2 BPSK	135	69	18.62	18.58	18.74	20.0	0.0	
100	PV2 BPSK	135	138	18.49	18.65	18.53	20.0	0.0	
100	PV2 BPSK	270	0	18.41	18.68	18.63			
100	QPSK	1	1	18.67	18.99	18.77			
100	QPSK	1	137	18.59	18.63	18.55	20.0	0.0	
100	QPSK	1	271	18.42	18.61	18.72			
100	QPSK	135	0	18.54	18.75	18.71	20.0	0.0	
100	QPSK	135	69	18.57	18.88	18.58	20.0	0.0	
100	QPSK	135	138	18.45	18.65	18.48	20.0	0.0	
100	QPSK	270	0	18.44	18.75	18.60			
100	16QAM	1	1	18.87	18.81	18.79	20.0	0.0	
100	64QAM	1	1	18.58	18.80	18.63	20.0	0.0	
100	256QAM	1	1	18.60	18.65	18.58	20.0	0.0	
Channel				645068	650000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.49	18.81	18.63	20.0	0.0	
Channel				646334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.47	18.75	18.61	20.0	0.0	
Channel				646000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.45	18.72	18.61	20.0	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.50	18.74	18.56	20.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.43	18.71	18.55	20.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.43	18.78	18.57	20.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.54	18.79	18.60	20.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.41	18.77	18.80	20.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.50	18.77	18.59	20.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.45	18.70	18.57	20.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.54	18.74	18.57	20.0	0.0	

Part270q n77 HPUE 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				630000	633334	635000			
Frequency (MHz)						3500.01			
100	PV2 BPSK	1	1	18.53					
100	PV2 BPSK	1	137	18.47			20.0	0.0	
100	PV2 BPSK	1	271	18.33					
100	PV2 BPSK	135	0	18.38			20.0	0.0	
100	PV2 BPSK	135	69	18.35			20.0	0.0	
100	PV2 BPSK	135	138	18.50			20.0	0.0	
100	PV2 BPSK	270	0	18.41					
100	QPSK	1	1	18.60					
100	QPSK	1	137	18.46			20.0	0.0	
100	QPSK	1	271	18.35					
100	QPSK	135	0	18.44			20.0	0.0	
100	QPSK	135	69	18.54			20.0	0.0	
100	QPSK	135	138	18.43			20.0	0.0	
100	QPSK	270	0	18.47					
100	64QAM	1	1	18.54			20.0	0.0	
100	64QAM	1	1	18.45			20.0	0.0	
100	256QAM	1	1	18.44			20.0	0.0	
Channel				630000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486	3500.01	3505.02			
90	QPSK	1	1	18.26	18.38	18.35	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.36	18.45	18.28	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.28	18.44	18.24	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3488	3500.01	3510.02			
60	QPSK	1	1	18.30	18.42	18.30	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.34	18.38	18.25	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.36	18.47	18.34	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.34	18.40	18.32	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	18.33	18.38	18.35	20.0	0.0	
Channel				630338	633334	636300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.00	3500.01	3540			
20	QPSK	1	1	18.29	18.38	18.34	20.0	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.6	3500.01	3542.52			
15	QPSK	1	1	18.37	18.39	18.30	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.35	18.39	18.26	20.0	0.0	

Part27O n78 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.62		20.0	0.0	
100	PI2 BPSK	1	137		18.61				
100	PI2 BPSK	1	271		18.58				
100	PI2 BPSK	135	0		18.65		20.0	0.0	
100	PI2 BPSK	135	69		18.53		20.0	0.0	
100	PI2 BPSK	135	138		18.72		20.0	0.0	
100	PI2 BPSK	270	0		18.65				
100	QPSK	1	1		18.77				
100	QPSK	1	137		18.49		20.0	0.0	
100	QPSK	1	271		18.65		20.0	0.0	
100	QPSK	135	0		18.64				
100	QPSK	135	69		18.71				
100	QPSK	135	138		18.66		20.0	0.0	
100	QPSK	270	0		18.69		20.0	0.0	
100	16QAM	1	1		18.67				
100	64QAM	1	1		18.54				
100	256QAM	1	1		18.66		20.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.65	18.54	18.63	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.61	18.53	18.63	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.59	18.52	18.65	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.59	18.57	18.66	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.60	18.57	18.59	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.59	18.55	18.61	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	18.66	18.54	18.60	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
25	QPSK	1	1	18.57	18.55	18.68	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01			
20	QPSK	1	1	18.62	18.57	18.64	20.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	18.59	18.55	18.67	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	18.67	18.60	18.61	20.0	0.0	

Part27Q 78 HPUE 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				633000	633334	633668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1		18.31		20.0	0.0	
100	PI2 BPSK	1	137		18.36				
100	PI2 BPSK	1	271		18.21				
100	PI2 BPSK	135	0		18.26		20.0	0.0	
100	PI2 BPSK	135	69		18.38		20.0	0.0	
100	PI2 BPSK	135	138		18.38		20.0	0.0	
100	PI2 BPSK	270	0		18.29				
100	QPSK	1	1		18.43				
100	QPSK	1	137		18.22		20.0	0.0	
100	QPSK	1	271		18.38		20.0	0.0	
100	QPSK	135	0		18.35				
100	QPSK	135	69		18.40				
100	QPSK	135	138		18.26		20.0	0.0	
100	QPSK	270	0		18.26		20.0	0.0	
100	16QAM	1	1		18.31				
100	64QAM	1	1		18.40				
100	256QAM	1	1		18.16		20.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.19	18.26	18.27	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.24	18.24	18.29	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.22	18.27	18.29	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.24	18.29	18.30	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.17	18.26	18.22	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.21	18.26	18.26	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.17	18.26	18.26	20.0	0.0	
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	18.22	18.26	18.25	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.16	18.30	18.28	20.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.19	18.21	18.24	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.19	18.25	18.20	20.0	0.0	



Reduced Power Mode for Sensor on

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				1660	1680	1690	18.5	0.0	
Frequency (MHz)				17.09	17.13	17.06			
20	PI2 BPSK	1	1	16.99	16.90	17.02			
20	PI2 BPSK	1	104	17.02	17.07	16.97			
20	PI2 BPSK	50	0	17.12	17.11	17.02	18.5	0.0	
20	PI2 BPSK	50	28	16.99	16.95	16.91	18.5	0.0	
20	PI2 BPSK	50	56	17.11	17.12	16.98	18.5	0.0	
20	PI2 BPSK	100	0	17.11	17.09	16.98	18.5	0.0	
20	QPSK	1	1	17.08	17.14	17.04			
20	QPSK	1	53	16.97	16.93	16.90			
20	QPSK	1	104	17.08	17.12	16.99			
20	QPSK	50	0	17.11	17.09	17.06	18.5	0.0	
20	QPSK	50	28	17.01	17.12	16.98	18.5	0.0	
20	QPSK	50	56	17.11	17.10	16.97	18.5	0.0	
20	QPSK	100	0	17.01	17.03	16.97	18.5	0.0	
20	16QAM	1	1	17.08	17.10	17.09	18.5	0.0	
20	64QAM	1	1	16.97	16.94	16.91	18.5	0.0	
20	256QAM	1	1	17.04	17.07	16.99	18.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	18.5	0.0	
15	QPSK	1	1	17.09	17.02	16.88	18.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	18.5	0.0	
10	QPSK	1	1	17.01	17.13	16.92	18.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1902.5	18.5	0.0	
5	QPSK	1	1	17.05	17.10	16.94	18.5	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)				23.4	23.44	23.45			
20	PI2 BPSK	1	1	23.41	23.44	23.45			
20	PI2 BPSK	1	53	23.41	23.42	23.40			
20	PI2 BPSK	1	104	23.45	23.42	23.41	23.5	0.5	
20	PI2 BPSK	50	0	22.99	23.08	22.96	24.0	0.0	
20	PI2 BPSK	50	28	23.40	23.49	23.39	23.5	0.5	
20	PI2 BPSK	50	56	23.05	23.11	22.95	24.0	0.0	
20	PI2 BPSK	100	0	23.10	23.12	23.03	23.5	0.5	
20	QPSK	1	1	23.55	23.58	23.51	24.0	0.0	
20	QPSK	1	53	23.50	23.54	23.47			
20	QPSK	1	104	23.50	23.53	23.45			
20	QPSK	50	0	22.56	22.56	22.47	23.0	1.0	
20	QPSK	50	28	23.46	23.51	23.48	24.0	0.0	
20	QPSK	50	56	22.57	22.57	22.50	23.0	1.0	
20	QPSK	100	0	22.51	22.59	22.52	23.0	1.0	
20	16QAM	1	1	22.53	22.56	22.49	23.0	1.0	
20	64QAM	1	1	21.09	21.03	21.04	21.5	2.5	
20	256QAM	1	1	19.02	19.05	19.06	19.5	4.5	
Channel				169300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	40	23.46	23.51	23.37	24.0	0.0	
Channel				166800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				830	836.5	844	24.0	0.0	
10	QPSK	1	26	23.46	23.41	23.40	24.0	0.0	
Channel				166300	167300	166900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0	
5	QPSK	1	13	23.44	23.46	23.36	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				2500	2535	2500	14.5	0.0	
Frequency (MHz)				13.32	13.33	13.14			
40	PI2 BPSK	1	1	13.32	13.31	13.19			
40	PI2 BPSK	1	214	13.13	13.16	13.08			
40	PI2 BPSK	108	0	13.23	13.25	13.22	14.5	0.0	
40	PI2 BPSK	108	54	13.22	13.25	13.21	14.5	0.0	
40	PI2 BPSK	108	108	13.17	13.18	13.15	14.5	0.0	
40	PI2 BPSK	216	0	13.17	13.31	13.19	14.5	0.0	
40	QPSK	1	1	13.33	13.35	13.21			
40	QPSK	1	108	13.13	13.26	13.20			
40	QPSK	1	214	13.06	13.14	13.06			
40	QPSK	108	0	13.25	13.29	13.21	14.5	0.0	
40	QPSK	108	54	13.15	13.30	13.11	14.5	0.0	
40	QPSK	108	108	13.13	13.12	13.16	14.5	0.0	
40	QPSK	216	0	13.20	13.23	13.23	14.5	0.0	
40	16QAM	1	1	13.27	13.25	13.15	14.5	0.0	
40	64QAM	1	1	13.18	13.25	13.14	14.5	0.0	
40	256QAM	1	1	13.11	13.19	13.14	14.5	0.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	14.5	0.0	
30	QPSK	1	1	13.21	13.30	13.13	14.5	0.0	
Channel				502000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	14.5	0.0	
25	QPSK	1	1	13.16	13.24	13.22	14.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	14.5	0.0	
20	QPSK	1	1	13.16	13.28	13.22	14.5	0.0	
Channel				501800	507000	512600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	13.1	0.0	
15	QPSK	1	1	13.14	13.24	13.18	14.5	0.0	
Channel				501800	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	14.5	0.0	
10	QPSK	1	1	13.18	13.21	13.12	14.5	0.0	
Channel				502000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	14.5	0.0	
5	QPSK	1	1	13.20	13.31	13.14	14.5	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	24.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	Pl2 BPSK	1	1	22.41	22.41	22.37			
15	Pl2 BPSK	1	40	22.32	22.28	22.27	23.5	0.5	
15	Pl2 BPSK	1	77	22.28	22.26	22.19			
15	Pl2 BPSK	36	0	22.04	21.96	22.00			
15	Pl2 BPSK	36	22	22.35	22.42	22.35	24.0	0.0	
15	Pl2 BPSK	36	43	22.03	22.01	21.97	23.5	0.5	
15	Pl2 BPSK	75	0	21.96	22.07	21.96			
15	QPSK	1	1	22.49	22.51	22.48			
15	QPSK	1	40	22.44	22.41	22.40	24.0	0.0	
15	QPSK	1	77	22.39	22.41	22.34	23.0	1.0	
15	QPSK	36	0	21.51	21.56	21.52			
15	QPSK	36	22	22.45	22.46	22.33			
15	QPSK	36	43	21.45	21.53	21.54	23.0	1.0	
15	QPSK	75	0	21.47	21.55	21.46	23.0	1.0	
15	16QAM	1	1	21.52	21.48	21.53			
15	64QAM	1	1	19.94	20.03	19.96	21.5	2.5	
15	256QAM	1	1	17.36	17.56	18.00	19.5	4.5	
Channel				140900	141500	142100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	24.0	0.0	
10	QPSK	1	1	22.45	22.42	22.35	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	24.0	0.0	
5	QPSK	1	1	22.39	22.39	22.42	24.0	0.0	

n13 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						156400	24.0	0.0	
Frequency (MHz)						742			
10	Pl2 BPSK	1	1			22.02			
10	Pl2 BPSK	1	26			21.91	23.5	0.5	
10	Pl2 BPSK	1	50			21.93			
10	Pl2 BPSK	25	0			21.65			
10	Pl2 BPSK	25	14			22.06	24.0	0.0	
10	Pl2 BPSK	25	27			21.60	23.5	0.5	
10	Pl2 BPSK	50	0			21.62			
10	QPSK	1	1			22.13			
10	QPSK	1	26			22.01	24.0	0.0	
10	QPSK	1	50			22.04			
10	QPSK	25	0			21.07			
10	QPSK	25	14			22.08	24.0	0.0	
10	QPSK	25	27			21.14	23.0	1.0	
10	QPSK	50	0			21.16			
10	16QAM	1	1			21.99			
10	64QAM	1	1			20.62	21.5	2.5	
10	256QAM	1	1			18.57	19.5	4.5	
Channel				150900	156400	156900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	782	784.5	24.0	0.0	
5	QPSK	1	1	21.98	22.01	21.92	24.0	0.0	

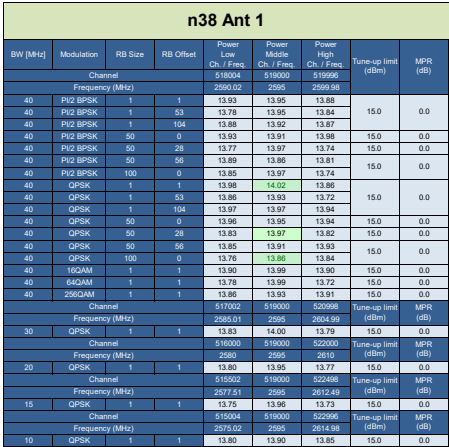
n14 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						156500	25.0	0.0	
Frequency (MHz)						743			
10	Pl2 BPSK	1	1			23.94			
10	Pl2 BPSK	1	26			23.76	24.5	0.5	
10	Pl2 BPSK	1	50			23.77			
10	Pl2 BPSK	25	0			23.39			
10	Pl2 BPSK	25	14			23.63	25.0	0.0	
10	Pl2 BPSK	25	27			23.48	24.5	0.5	
10	Pl2 BPSK	50	0			23.41			
10	QPSK	1	1			23.94			
10	QPSK	1	26			23.86	25.0	0.0	
10	QPSK	1	50			23.87			
10	QPSK	25	0			22.99			
10	QPSK	25	14			23.89	25.0	0.0	
10	QPSK	25	27			22.99	24.0	1.0	
10	QPSK	50	0			22.91			
10	16QAM	1	1			22.85			
10	64QAM	1	1			21.43	22.5	2.5	
10	256QAM	1	1			19.45	20.5	4.5	
Channel				156100	156900	156100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				780.5	783	785.5	25.0	0.0	
5	QPSK	1	1	23.82	23.88	23.85	25.0	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	376000	378000			
Frequency (MHz)				1689	1682.5	1696			
40	PI2 BPSK	1	1	17.01	17.14	17.08			
40	PI2 BPSK	1	108	16.91	16.96	16.98	18.5	0.0	
40	PI2 BPSK	1	214	16.93	17.08	16.96			
40	PI2 BPSK	108	0	16.95	17.10	17.04	18.5	0.0	
40	PI2 BPSK	108	54	16.91	16.95	17.01	18.5	0.0	
40	PI2 BPSK	108	108	16.88	17.05	16.97	18.5	0.0	
40	PI2 BPSK	216	0	16.88	16.99	16.95			
40	QPSK	1	1	17.05	17.17	17.00			
40	QPSK	1	108	16.92	17.06	16.97	18.5	0.0	
40	QPSK	1	214	16.88	17.05	16.94			
40	QPSK	108	0	17.03	17.08	16.99	18.5	0.0	
40	QPSK	108	54	16.93	17.14	16.88	18.5	0.0	
40	QPSK	108	108	16.92	17.02	16.99	18.5	0.0	
40	QPSK	216	0	16.83	17.06	16.94	18.5	0.0	
40	16QAM	1	1	16.98	17.13	17.03	18.5	0.0	
40	64QAM	1	1	16.81	16.98	16.90	18.5	0.0	
40	256QAM	1	1	16.54	17.00	16.97	18.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1665	1682.5	1690			
30	QPSK	1	1	16.90	17.06	16.97	18.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1682.5	1682.5	1682.5			
25	QPSK	1	1	16.89	16.96	16.95	18.5	0.0	
Channel				371900	376900	381900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1657.5	1682.5	1697.5			
20	QPSK	1	1	16.88	17.07	17.01	18.5	0.0	
Channel				371900	376900	381900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1682.5	1682.5	1682.5			
15	QPSK	1	1	16.85	16.97	16.93	18.5	0.0	
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1655	1682.5	1690			
10	QPSK	1	1	16.80	17.03	17.00	18.5	0.0	
Channel				370200	376000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1652.5	1682.5	1692.5			
5	QPSK	1	1	16.78	16.99	17.03	18.5	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				164800	166800	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.50	23.38	23.54			
20	PI2 BPSK	1	53	23.35	23.30	23.38	24.0	0.0	
20	PI2 BPSK	1	104	23.37	23.36	23.49			
20	PI2 BPSK	50	0	23.03	23.32	23.22	23.5	0.5	
20	PI2 BPSK	50	25	23.50	23.44	23.58	23.0	0.0	
20	PI2 BPSK	50	56	23.12	23.06	23.21	23.5	0.5	
20	PI2 BPSK	100	0	23.09	23.07	23.21			
20	QPSK	1	1	23.58	23.51	23.56			
20	QPSK	1	53	23.50	23.42	23.52	24.0	0.0	
20	QPSK	1	104	23.46	23.48	23.57			
20	QPSK	50	0	22.80	22.49	22.70	23.0	1.0	
20	QPSK	50	25	23.52	23.47	23.60	24.0	0.0	
20	QPSK	50	56	22.58	22.47	22.61	23.0	1.0	
20	QPSK	100	0	22.63	22.49	22.62			
20	16QAM	1	1	22.55	22.51	22.56	23.0	1.0	
20	64QAM	1	1	21.11	20.98	21.13	21.5	2.5	
20	256QAM	1	1	19.05	19.01	19.15	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.53	23.44	23.54	24.0	0.0	
Channel				163800	165800	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	23.53	23.46	23.60	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	23.48	23.45	23.54	24.0	0.0	

n66 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	16.5	0.0	
Frequency (MHz)				1740	1745	1744			
40	PI2 BPSK	1	1	15.37	15.43	15.44			
40	PI2 BPSK	1	108	15.25	15.30	15.28			
40	PI2 BPSK	1	214	15.27	15.37	15.28	16.5	0.0	
40	PI2 BPSK	108	0	15.41	15.41	15.44			
40	PI2 BPSK	108	54	15.34	15.38	15.29			
40	PI2 BPSK	108	108	15.31	15.35	15.26			
40	PI2 BPSK	216	0	15.26	15.34	15.32	16.5	0.0	
40	QPSK	1	1	15.35	15.51	15.43			
40	QPSK	1	108	15.22	15.35	15.25			
40	QPSK	1	214	15.33	15.35	15.32			
40	QPSK	108	0	15.34	15.45	15.37	16.5	0.0	
40	QPSK	108	54	15.25	15.49	15.34			
40	QPSK	108	108	15.32	15.38	15.26			
40	QPSK	216	0	15.20	15.32	15.33		0.0	
40	16QAM	1	1	15.34	15.49	15.32	16.5	0.0	
40	16QAM	1	1	15.24	15.37	15.36			
40	256QAM	1	1	15.20	15.35	15.20			
40	256QAM	1	1	15.20	15.35	15.20			
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.30	15.30	15.28	16.5	0.0	
Channel				348000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.28	15.36	15.25		0.0	
Channel				345000	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1772.5			
15	QPSK	1	1	15.22	15.34	15.26	16.5	0.0	
Channel				343000	349000	350500			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.31	15.30	15.27		0.0	
Channel				342500	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.21	15.29	15.33	16.5	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				136000	136100	137600	23.0	0.0	
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	21.81	21.84	21.84			
20	PI2 BPSK	1	53	21.63	21.75	21.74			
20	PI2 BPSK	1	104	21.76	21.69	21.68	23.0	0.0	
20	PI2 BPSK	50	0	21.75	21.80	21.74			
20	PI2 BPSK	50	28	21.66	21.62	21.62			
20	PI2 BPSK	50	56	21.68	21.75	21.74			
20	PI2 BPSK	100	0	21.76	21.69	21.77	23.0	0.0	
20	QPSK	1	1	21.81	21.88	21.74			
20	QPSK	1	53	21.60	21.66	21.64			
20	QPSK	1	104	21.73	21.69	21.77			
20	QPSK	50	0	21.69	21.70	21.72	23.0	0.0	
20	QPSK	50	28	21.66	21.76	21.68			
20	QPSK	50	56	21.67	21.67	21.70			
20	QPSK	100	0	21.76	21.78	21.73		0.0	
20	16QAM	1	1	21.76	21.76	21.74			
20	16QAM	1	1	20.30	20.35	20.28			
20	256QAM	1	1	18.26	18.37	18.33			
20	256QAM	1	1	18.26	18.37	18.33			
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				662.5	680.5	695.5			
15	QPSK	1	1	21.68	21.74	21.68	23.0	0.0	
Channel				136000	136100	136600			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	21.71	21.77	21.74		23.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	21.70	21.76	21.76		23.0	



Par270 n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Middle Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Tuning limit (dBm)	MPR (dB)	
	Channel			650000	650000	650000			
	Frequency (MHz)			3750	3840	3930			
100	P2 BPSK	1	1	21.13	21.14	20.82			
100	P2 BPSK	1	137	21.12	21.06	21.81	22.0	0.0	
100	P2 BPSK	1	271	20.94	21.18	20.84			
100	P2 BPSK	135	0	21.01	21.14	20.83	22.0	0.0	
100	P2 BPSK	135	69	21.18	20.85	20.80	22.0	0.0	
100	P2 BPSK	135	138	20.84	21.19	20.73			
100	P2 BPSK	270	0	20.90	21.28	20.70	22.0	0.0	
	Channel			650000	650000	650000			
	Frequency (MHz)			3750	3840	3930			
100	QPSK	1	1	21.16	21.23	20.73			
100	QPSK	1	137	21.18	21.13	20.83			
100	QPSK	1	271	20.94	21.14	20.70			
100	QPSK	135	0	21.13	21.08	20.79	22.0	0.0	
100	QPSK	135	69	21.11	21.21	20.95	22.0	0.0	
100	QPSK	135	138	21.00	21.20	20.84			
100	QPSK	270	0	20.90	21.09	20.70			
100	16QAM	1	1	21.16	21.14	20.76	22.0	0.0	
100	64QAM	1	1	21.18	21.00	20.85			
100	256QAM	1	1	21.01	21.21	20.81			
	Channel			645608	650000	652354			
	Frequency (MHz)			3744.50	3840	3945.51			
90	QPSK	1	1	20.89	21.10	20.72	22.0	0.0	
	Channel			640334	650000	652668			
	Frequency (MHz)			3714.01	3840	3947.02			
80	QPSK	1	1	21.00	21.14	20.76	22.0	0.0	
	Channel			635000	650000	653000			
	Frequency (MHz)			3735	3840	3945			
70	QPSK	1	1	20.91	21.14	20.64	22.0	0.0	
	Channel			629500	650000	653500			
	Frequency (MHz)			3730.50	3840	3950.51			
60	QPSK	1	1	20.99	21.13	20.71	22.0	0.0	
	Channel			624334	650000	653668			
	Frequency (MHz)			3700.51	3840	3947.51			
50	QPSK	1	1	20.93	21.19	20.71	22.0	0.0	
	Channel			618000	650000	654000			
	Frequency (MHz)			3720	3840	3960			
45	QPSK	1	1	21.16	21.02	20.74	22.0	0.0	
	Channel			612500	650000	654500			
	Frequency (MHz)			3715.00	3840	3955.01			
30	QPSK	1	1	21.01	21.03	20.70	22.0	0.0	
	Channel			607500	650000	654500			
	Frequency (MHz)			3710.23	3840	3957.47			
25	QPSK	1	1	20.89	21.08	20.68	22.0	0.0	
	Channel			607334	650000	654668			
	Frequency (MHz)			3710.01	3840	3957.02			
20	QPSK	1	1	21.00	21.12	20.72	22.0	0.0	
	Channel			607168	650000	654834			
	Frequency (MHz)			3707.52	3840	3957.51			
15	QPSK	1	1	20.97	21.16	20.75	22.0	0.0	
	Channel			606500	650000	655000			
	Frequency (MHz)			3705	3840	3975			
10	QPSK	1	1	20.90	21.17	20.58	22.0	0.0	

Part27Q n77 HPUE 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				630001					
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1	20.83				22.0	0.0
100	P12 BPSK	1	137	20.86					
100	P12 BPSK	1	271	20.80					
100	P12 BPSK	135	0	20.88				22.0	0.0
100	P12 BPSK	135	69	20.76				22.0	0.0
100	P12 BPSK	135	138	20.61				22.0	0.0
100	P12 BPSK	270	0	20.82				22.0	0.0
100	QPSK	1	1	20.94					
100	QPSK	1	137	20.68					
100	QPSK	1	271	20.61				22.0	0.0
100	QPSK	135	0	20.81				22.0	0.0
100	QPSK	135	69	20.87				22.0	0.0
100	QPSK	135	138	20.78				22.0	0.0
100	QPSK	270	0	20.85				22.0	0.0
100	16QAM	1	1	20.91					
100	64QAM	1	1	20.87					
100	256QAM	1	1	20.61				22.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1	20.66	20.86	20.80	22.0	0.0	
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510.01			
80	QPSK	1	1	20.72	20.79	20.77	22.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.61	20.10	20.14	22.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	20.71	20.84	20.65	22.0	0.0	
Channel				631068	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525.01			
50	QPSK	1	1	20.68	20.86	20.78	22.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3478.01	3500.01	3528.01			
40	QPSK	1	1	20.75	20.85	20.65	22.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3535.02			
30	QPSK	1	1	20.65	20.82	20.80	22.0	0.0	
Channel				630334	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3482.51	3500.01	3537.51			
25	QPSK	1	1	20.72	20.78	20.72	22.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3540.01			
20	QPSK	1	1	20.69	20.90	20.77	22.0	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3472.5	3500.01	3542.52			
15	QPSK	1	1	20.62	20.83	20.67	22.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3545.01			
10	QPSK	1	1	20.78	20.92	20.77	22.0	0.0	

Part27Q n78 HPUE 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				3750		3750			
Frequency (MHz)				3750		3750			
100	P12 BPSK	1	1	21.62				22.0	0.0
100	P12 BPSK	1	137	20.88					
100	P12 BPSK	1	271	21.04					
100	P12 BPSK	135	0	21.02				22.0	0.0
100	P12 BPSK	135	69	21.01				22.0	0.0
100	P12 BPSK	135	138	20.95				22.0	0.0
100	P12 BPSK	270	0	21.06				22.0	0.0
100	QPSK	1	1	21.16					
100	QPSK	1	137	20.96					
100	QPSK	1	271	21.01				22.0	0.0
100	QPSK	135	0	21.03				22.0	0.0
100	QPSK	135	69	21.09				22.0	0.0
100	QPSK	135	138	21.08				22.0	0.0
100	QPSK	270	0	21.13				22.0	0.0
100	16QAM	1	1	21.10					
100	64QAM	1	1	20.85					
100	256QAM	1	1	21.01				22.0	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	20.81	20.98	20.54	22.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	21.03	20.82	20.49	22.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	21.00	20.84	20.53	22.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	20.88	20.90	20.50	22.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	20.82	20.97	20.56	22.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	20.90	21.04	20.54	22.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	20.84	20.97	20.47	22.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	20.83	21.10	20.60	22.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	20.95	21.05	20.64	22.0	0.0	
Channel				646768	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	20.93	21.07	20.45	22.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	20.83	21.06	20.51	22.0	0.0	

Part27Q 78 HPUE 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				630001					
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1	20.56			22.0	0.0	
100	P12 BPSK	1	137	20.46					
100	P12 BPSK	1	271	20.47					
100	P12 BPSK	135	0	20.63			22.0	0.0	
100	P12 BPSK	135	69	20.57			22.0	0.0	
100	P12 BPSK	135	138	20.38			22.0	0.0	
100	P12 BPSK	270	0	20.59			22.0	0.0	
100	QPSK	1	1	20.68					
100	QPSK	1	137	20.47					
100	QPSK	1	271	20.55			22.0	0.0	
100	QPSK	135	0	20.50			22.0	0.0	
100	QPSK	135	69	20.57			22.0	0.0	
100	QPSK	135	138	20.51			22.0	0.0	
100	QPSK	270	0	20.60			22.0	0.0	
100	16QAM	1	1	20.57					
100	64QAM	1	1	20.47					
100	256QAM	1	1	20.53			22.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3505.02			
90	QPSK	1	1	20.40	20.65	20.37	22.0	0.0	
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	22.0		
80	QPSK	1	1	20.40	20.60	20.33	22.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	22.0		
70	QPSK	1	1	20.43	20.62	20.42	22.0	0.0	
Channel				632000	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505	22.0		
60	QPSK	1	1	20.43	20.70	20.47	22.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.02	3500.01	3505	22.0		
50	QPSK	1	1	20.54	20.59	20.43	22.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3510.01	22.0		
40	QPSK	1	1	20.54	20.56	20.43	22.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	22.0		
30	QPSK	1	1	20.54	20.59	20.43	22.0	0.0	
Channel				630634	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.41	3500.01	3537.51	22.0		
25	QPSK	1	1	20.54	20.59	20.43	22.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	22.0		
20	QPSK	1	1	20.54	20.56	20.43	22.0	0.0	
Channel				630500	633334	636368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.54	3500.01	3542.52	22.0		
15	QPSK	1	1	20.54	20.59	20.43	22.0	0.0	
Channel				630334	633334	636534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	22.0		
10	QPSK	1	1	20.54	20.59	20.43	22.0	0.0	

FR1 n70 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					340500			
Frequency (MHz)					1702.5			
15	PV2 BPSK	1	1		18.85		20.5	0.0
15	PV2 BPSK	1	40		18.72			
15	PV2 BPSK	1	77		18.67			
15	PV2 BPSK	36	0		18.65		20.5	0.0
15	PV2 BPSK	36	22		18.77		20.5	0.0
15	PV2 BPSK	36	43		18.67		20.5	0.0
15	PV2 BPSK	75	0		18.71			
15	QPSK	1	1		18.91			
15	QPSK	1	40		18.75		20.5	0.0
15	QPSK	1	77		18.69			
15	QPSK	36	0		18.77			
15	QPSK	36	22		18.83		20.5	0.0
15	QPSK	36	43		18.71		20.5	0.0
15	QPSK	75	0		18.80			
15	16QAM	1	1		18.65			
15	64QAM	1	1		18.75		20.5	0.0
15	256QAM	1	1		17.76		19.5	1.0
Channel				340000	340500	341000	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	PV2 BPSK	1	1	18.76	18.77	18.75	20.5	0.0
Channel				339500	340500	341500	Tune-up limit (dbm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	PV2 BPSK	1	1	18.82	18.82	18.82	20.5	0.0



n41 HPUE 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				2546.01	2592.99	2640			
Frequency (MHz)									
100	PV2 BPSK	1	1	17.67	18.19	17.93	19.0	0.0	
100	PV2 BPSK	1	137	17.75	18.19	17.84			
100	PV2 BPSK	1	271	17.82	18.15	17.91			
100	PV2 BPSK	135	0	17.80	18.24	17.87	19.0	0.0	
100	PV2 BPSK	135	69	17.68	18.25	17.87	19.0	0.0	
100	PV2 BPSK	135	138	17.71	18.25	17.87	19.0	0.0	
100	PV2 BPSK	270	0	17.77	18.21	17.87			
100	QPSK	1	1	17.81	18.25	17.88			
100	QPSK	1	137	17.74	18.24	17.97	19.0	0.0	
100	QPSK	1	271	17.73	18.25	17.86	19.0	0.0	
100	QPSK	135	0	17.70	18.24	17.84			
100	QPSK	135	69	17.84	18.27	17.84			
100	QPSK	135	138	17.77	18.17	17.80	19.0	0.0	
100	QPSK	270	0	17.70	18.18	17.80	19.0	0.0	
100	16QAM	1	1	17.70	18.17	17.82			
100	64QAM	1	1	17.72	18.16	17.87			
100	256QAM	1	1	17.83	18.19	17.84	19.0	0.0	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.69	18.20	17.93	19.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	17.64	18.22	17.93	19.0	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.68	18.24	17.97	19.0	0.0	
Channel				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	17.68	18.17	17.86	19.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.72	18.16	17.87	19.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.64	18.17	17.88	19.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.71	18.20	17.99	19.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.67	18.18	17.92	19.0	0.0	
Channel				500200	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	17.66	18.22	17.85	19.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.73	18.19	17.86	19.0	0.0	

Par270 n77 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	22.07	22.05	21.82	23.0	0.0	
100	PV2 BPSK	1	137	21.74	21.90	21.84			
100	PV2 BPSK	1	271	21.76	21.99	21.95			
100	PV2 BPSK	135	0	21.98	22.04	21.98	23.0	0.0	
100	PV2 BPSK	135	69	21.71	22.04	21.96	23.0	0.0	
100	PV2 BPSK	135	138	21.96	22.07	21.84	23.0	0.0	
100	PV2 BPSK	270	0	20.93	21.11	20.81			
100	QPSK	1	1	22.00	22.15	21.95			
100	QPSK	1	137	21.92	22.01	21.83	23.0	0.0	
100	QPSK	1	271	21.80	22.07	21.93	23.0	0.0	
100	QPSK	135	0	22.08	22.09	21.93			
100	QPSK	135	69	21.86	22.10	21.97			
100	QPSK	135	138	21.93	22.04	21.75	23.0	0.0	
100	QPSK	270	0	21.95	21.96	21.91	23.0	0.0	
100	16QAM	1	1	22.03	22.03	22.02			
100	64QAM	1	1	21.80	22.07	22.02			
100	256QAM	1	1	20.09	20.32	20.23	21.5	1.5	
Channel				648668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	21.93	22.07	21.87	23.0	0.0	
Channel				648334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3743.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	21.92	22.11	21.87	23.0	0.0	
Channel				648000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	QPSK	1	1	21.98	22.16	21.87	23.0	0.0	
Channel				646668	650000	653334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	21.95	22.17	21.88	23.0	0.0	
Channel				646334	650000	653668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	21.92	22.16	21.85	23.0	0.0	
Channel				646000	650000	654000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	22.02	22.14	21.80	23.0	0.0	
Channel				645668	650000	654334	Tune-up limit	MPR	
Frequency (MHz)				3716.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	21.98	22.07	21.84	23.0	0.0	
Channel				647500	650000	654500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3840	3967.5	(dBm)	(dB)	
25	QPSK	1	1	21.92	22.14	21.90	23.0	0.0	
Channel				647334	650000	654998	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	21.98	22.16	21.86	23.0	0.0	
Channel				647168	650000	654834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.51	(dBm)	(dB)	
15	QPSK	1	1	21.93	22.09	21.89	23.0	0.0	
Channel				647000	650000	655000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	QPSK	1	1	22.05	22.04	21.79	23.0	0.0	

Part270Q n77 HPUE 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				630000	633334	635000			
Frequency (MHz)					2153				
100	PV2 BPSK	1	1		21.53		23.0	0.0	
100	PV2 BPSK	1	137		21.59				
100	PV2 BPSK	1	271		21.76				
100	PV2 BPSK	135	0		21.62		23.0	0.0	
100	PV2 BPSK	135	69		21.54		23.0	0.0	
100	PV2 BPSK	135	138		21.58		23.0	0.0	
100	PV2 BPSK	270	0		21.60				
100	QPSK	1	1		21.53				
100	QPSK	1	137		21.74		23.0	0.0	
100	QPSK	1	271		21.61		23.0	0.0	
100	QPSK	135	0		21.68				
100	QPSK	135	69		21.70				
100	QPSK	135	138		21.48		23.0	0.0	
100	QPSK	270	0		21.61		23.0	0.0	
100	16QAM	1	1		21.54				
100	64QAM	1	1		21.60		23.0	0.0	
100	256QAM	1	1		19.80		23.5	1.5	
Channel				630000	633334	633668	Tune-up limit		MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)		(dB)
90	QPSK	1	1	21.65	21.64	21.53	23.0	0.0	
Channel				636688	633334	634000	Tune-up limit		MPR
Frequency (MHz)				3470.02	3500.01	3510	(dBm)		(dB)
80	QPSK	1	1	21.59	21.61	21.40	23.0	0.0	
Channel				632334	633334	634334	Tune-up limit		MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)		(dB)
70	QPSK	1	1	21.72	21.51	21.98	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit		MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)		(dB)
60	QPSK	1	1	21.67	21.62	21.54	23.0	0.0	
Channel				631668	633334	635000	Tune-up limit		MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)		(dB)
50	QPSK	1	1	21.81	21.63	21.54	23.0	0.0	
Channel				631234	633334	635334	Tune-up limit		MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)		(dB)
40	QPSK	1	1	21.61	21.62	21.51	23.0	0.0	
Channel				631000	633334	635668	Tune-up limit		MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)		(dB)
30	QPSK	1	1	21.59	21.51	21.59	23.0	0.0	
Channel				630334	633334	635834	Tune-up limit		MPR
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)		(dB)
25	QPSK	1	1	21.85	21.68	21.55	23.0	0.0	
Channel				630668	633334	636000	Tune-up limit		MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)		(dB)
20	QPSK	1	1	21.70	21.65	21.60	23.0	0.0	
Channel				630500	633334	636168	Tune-up limit		MPR
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)		(dB)
15	QPSK	1	1	21.71	21.52	21.60	23.0	0.0	
Channel				630234	633334	636334	Tune-up limit		MPR
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)		(dB)
10	QPSK	1	1	21.60	21.64	21.54	23.0	0.0	

Part27O n78 HPUE 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				850000	850000	850000				
Frequency (MHz)				3750	3750	3750				
100	PI2 BPSK	1	1		22.00		23.0	0.0		
100	PI2 BPSK	1	137		21.83					
100	PI2 BPSK	1	271		22.04					
100	PI2 BPSK	135	0		21.89		23.0	0.0		
100	PI2 BPSK	135	69		21.89		23.0	0.0		
100	PI2 BPSK	135	138		21.88		23.0	0.0		
100	PI2 BPSK	270	0		21.99					
100	QPSK	1	1		22.08		23.0	0.0		
100	QPSK	1	137		21.99					
100	QPSK	1	271		21.78					
100	QPSK	135	0		21.93		23.0	0.0		
100	QPSK	135	69		21.99		23.0	0.0		
100	QPSK	135	138		21.93		23.0	0.0		
100	QPSK	270	0		21.81					
100	16QAM	1	1		21.99		23.0	0.0		
100	64QAM	1	1		21.82		23.0	0.0		
100	256QAM	1	1		20.17		21.5	1.5		
Channel				849988	850000	850034	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1		22.01	21.93	21.87	23.0	0.0	
Channel				849334	850000	850068	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1		22.01	21.88	21.79	23.0	0.0	
Channel				849000	850000	851000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1		21.95	22.03	21.93	23.0	0.0	
Channel				848668	850000	851334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1		21.95	22.03	21.85	23.0	0.0	
Channel				848334	850000	851668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1		21.99	22.03	21.92	23.0	0.0	
Channel				848000	850000	852000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1		21.97	22.03	21.87	23.0	0.0	
Channel				847668	850000	852334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3750	3785.01				
30	QPSK	1	1		21.94	21.90	21.93	23.0	0.0	
Channel				847500	850000	852000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3712.5	3750	3787.5				
25	QPSK	1	1		21.97	22.03	21.81	23.0	0.0	
Channel				847334	850000	852668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1		22.06	21.93	21.87	23.0	0.0	
Channel				847168	850000	852834	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3707.52	3750	3792.51				
15	QPSK	1	1		21.97	21.91	21.92	23.0	0.0	
Channel				847000	850000	853000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1		22.05	21.94	21.88	23.0	0.0	

Part27Q 78 HPUE Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				833000	833334	833334			
100	PI2 BPSK	1	1		21.62		23.0	0.0	
100	PI2 BPSK	1	137		21.65				
100	PI2 BPSK	1	271		21.73				
100	PI2 BPSK	135	0		21.56		23.0	0.0	
100	PI2 BPSK	135	69		21.52		23.0	0.0	
100	PI2 BPSK	135	138		21.55		23.0	0.0	
100	PI2 BPSK	270	0		21.72				
100	QPSK	1	1		21.78		23.0	0.0	
100	QPSK	1	137		21.67				
100	QPSK	1	271		21.64				
100	QPSK	135	0		21.61		23.0	0.0	
100	QPSK	135	69		21.69		23.0	0.0	
100	QPSK	135	138		21.64		23.0	0.0	
100	QPSK	270	0		21.65				
100	16QAM	1	1		21.59		23.0	0.0	
100	64QAM	1	1		21.62		23.0	0.0	
100	256QAM	1	1		19.90		21.5	1.5	
Channel				833000	833334	833668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		21.36	21.67	21.62	23.0	0.0
Channel				832668	833334	834000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		21.47	21.69	21.54	23.0	0.0
Channel				832334	833334	834334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		21.41	21.63	21.49	23.0	0.0
Channel				832000	833334	834668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		21.42	21.67	21.50	23.0	0.0
Channel				831668	833334	835000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		21.44	21.68	21.57	23.0	0.0
Channel				831334	833334	835334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		21.37	21.67	21.58	23.0	0.0
Channel				831000	833334	835668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		21.43	21.60	21.58	23.0	0.0
Channel				830634	833334	835834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		21.39	21.72	21.52	23.0	0.0
Channel				830368	833334	836000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		21.50	21.68	21.62	23.0	0.0
Channel				830500	833334	836168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		21.42	21.64	21.50	23.0	0.0
Channel				830334	833334	836334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		21.43	21.71	21.51	23.0	0.0



n41 HPUE 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)				506002	518998	526000			
				2546.01	2562.99	2640			
100	Pi2 BPSK	1	1	19.19	20.03	19.54	20.5	0.0	
100	Pi2 BPSK	1	137	19.11	20.03	19.43			
100	Pi2 BPSK	1	271	19.10	20.01	19.55			
100	Pi2 BPSK	135	0	19.16	20.06	19.56	20.5	0.0	
100	Pi2 BPSK	135	69	19.13	20.08	19.42	20.5	0.0	
100	Pi2 BPSK	135	138	19.03	19.92	19.54	20.5	0.0	
100	Pi2 BPSK	270	0	19.18	20.05	19.55	20.5	0.0	
100	QPSK	1	1	19.12	20.09	19.51			
100	QPSK	1	137	19.03	19.99	19.51			
100	QPSK	1	271	19.02	19.98	19.48	20.5	0.0	
100	QPSK	135	0	19.19	20.01	19.59	20.5	0.0	
100	QPSK	135	69	19.08	20.03	19.50	20.5	0.0	
100	QPSK	135	138	19.02	19.97	19.56	20.5	0.0	
100	QPSK	270	0	19.18	20.01	19.52	20.5	0.0	
100	16QAM	1	1	19.15	20.05	19.53	20.5	0.0	
100	64QAM	1	1	19.06	19.97	19.53	20.5	0.0	
100	256QAM	1	1	19.08	19.98	19.52	20.5	0.0	
Channel				508200	518998	529999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2562.99	2562.99	2644.98			
90	QPSK	1	1	19.18	20.01	19.57	20.5	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2562.02	2562.99	2649.98			
80	QPSK	1	1	19.17	20.06	19.51	20.5	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2551.01	2562.99	2655			
70	QPSK	1	1	19.23	19.99	19.57	20.5	0.0	
Channel				505300	518998	531999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546	2562.99	2659.98			
60	QPSK	1	1	19.20	20.00	19.59	20.5	0.0	
Channel				504201	518998	532999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2542.02	2562.99	2664.98			
50	QPSK	1	1	19.15	20.02	19.54	20.5	0.0	
Channel				503002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.01	2562.99	2670			
40	QPSK	1	1	19.17	20.06	19.53	20.5	0.0	
Channel				502000	518998	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531	2562.99	2674.98			
30	QPSK	1	1	19.17	20.04	19.58	20.5	0.0	
Channel				501204	518998	535999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526.02	2562.99	2679.98			
20	QPSK	1	1	19.16	20.00	19.58	20.5	0.0	
Channel				500100	518998	536999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2523.01	2562.99	2682.48			
15	QPSK	1	1	19.14	20.00	19.59	20.5	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.01	2562.99	2680			
10	QPSK	1	1	19.13	20.04	19.59	20.5	0.0	

n48 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				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	Pi2 BPSK	1	1	13.44	13.59	13.69	15.0	0.0	
40	Pi2 BPSK	1	53	13.31	14.07	13.57			
40	Pi2 BPSK	1	104	13.40	14.06	13.64			
40	Pi2 BPSK	50	0	13.38	13.98	13.55	15.0	0.0	
40	Pi2 BPSK	50	28	13.34	13.99	13.43	15.0	0.0	
40	Pi2 BPSK	50	56	13.29	13.84	13.40	15.0	0.0	
40	Pi2 BPSK	100	0	13.34	13.92	13.52	15.0	0.0	
40	QPSK	1	1	13.31	14.11	13.43			
40	QPSK	1	53	13.26	13.93	13.58			
40	QPSK	1	104	13.22	14.09	13.57	15.0	0.0	
40	QPSK	50	0	13.45	13.80	13.47	15.0	0.0	
40	QPSK	50	28	13.38	14.10	13.43	15.0	0.0	
40	QPSK	50	56	13.25	14.09	13.62	15.0	0.0	
40	QPSK	100	0	13.22	14.00	13.58	15.0	0.0	
40	16QAM	1	1	13.20	13.83	13.64			
40	64QAM	1	1	13.28	14.02	13.37			
40	256QAM	1	1	13.28	14.00	13.43	15.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3682.48			
20	QPSK	1	1	13.45	14.09	13.52	15.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3624.99	3684.98			
15	QPSK	1	1	13.42	14.06	13.58	15.0	0.0	
Channel				636834	641666	646500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.51	3624.99	3697.5			
10	QPSK	1	1	13.31	14.04	13.50	15.0	0.0	

Par270 n77 HPUE 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pi2 BPSK	1	1	15.35	15.22	14.95	16.0	0.0	
100	Pi2 BPSK	1	137	15.12	15.24	14.93			
100	Pi2 BPSK	1	271	15.27	15.14	14.92			
100	Pi2 BPSK	135	0	15.30	15.19	15.05	16.0	0.0	
100	Pi2 BPSK	135	69	15.18	15.26	14.97	16.0	0.0	
100	Pi2 BPSK	135	138	15.32	15.23	14.94	16.0	0.0	
100	Pi2 BPSK	270	0	15.16	15.15	14.80	16.0	0.0	
100	QPSK	1	1	15.19	15.37	14.97			
100	QPSK	1	137	15.17	15.25	14.96			
100	QPSK	1	271	15.17	15.17	14.93	16.0	0.0	
100	QPSK	135	0	15.11	15.21	14.88	16.0	0.0	
100	QPSK	135	69	15.25	15.32	14.85	16.0	0.0	
100	QPSK	135	138	15.15	15.17	14.96	16.0	0.0	
100	QPSK	270	0	15.12	15.21	14.90	16.0	0.0	
100	16QAM	1	1	15.22	15.18	15.05			
100	64QAM	1	1	15.21	15.18	14.89			
100	256QAM	1	1	15.16	15.28	14.96	16.0	0.0	
Channel				649000	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.22	15.14	14.83	16.0	0.0	
Channel				648334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730	3840	3943			
80	QPSK	1	1	15.09	15.30	14.92	16.0	0.0	
Channel				648000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730	3840	3943			
70	QPSK	1	1	15.27	15.27	14.91	16.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.14	15.27	14.87	16.0	0.0	
Channel				648334	650000	663553	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.27	15.25	14.82	16.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3729	3840	3950			
40	QPSK	1	1	15.11	15.28	14.87	16.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	15.27	15.25	14.69	16.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.09	15.23	14.93	16.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.22	15.25	14.84	16.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.26	15.29	14.92	16.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.16	15.16	14.81	16.0	0.0	



Part27Q n77 HPUE 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		3500.01				
100	PI2 BPSK	1	1		14.78				
100	PI2 BPSK	1	137		14.77		16.0	0.0	
100	PI2 BPSK	1	271		14.78				
100	PI2 BPSK	135	0		14.73		16.0	0.0	
100	PI2 BPSK	135	69		14.61		16.0	0.0	
100	PI2 BPSK	135	138		14.61		16.0	0.0	
100	PI2 BPSK	270	0		14.62				
100	QPSK	1	1		14.80				
100	QPSK	1	137		14.73		16.0	0.0	
100	QPSK	1	271		14.76				
100	QPSK	135	0		14.73		16.0	0.0	
100	QPSK	135	69		14.77		16.0	0.0	
100	QPSK	135	138		14.76		16.0	0.0	
100	QPSK	270	0		14.65				
100	16QAM	1	1		14.75		16.0	0.0	
100	64QAM	1	1		14.66		16.0	0.0	
100	256QAM	1	1		14.76		16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR	(dB)
				3485	3500.01	3505.02			
90	QPSK	1	1	14.64	14.70	14.56	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632068	633334	634600	Tune-up limit (dBm)	MPR	(dB)
				3489.02	3500.01	3510.01			
80	QPSK	1	1	14.55	14.80	14.72	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
				3480	3500.01	3510.01			
70	QPSK	1	1	14.71	14.69	14.69	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR	(dB)
				3480	3500.01	3510.01			
60	QPSK	1	1	14.52	14.78	14.58	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR	(dB)
				3479.02	3500.01	3525			
50	QPSK	1	1	14.57	14.62	14.69	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR	(dB)
				3479.01	3500.01	3530.01			
40	QPSK	1	1	14.55	14.72	14.67	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR	(dB)
				3465	3500.01	3535.02			
30	QPSK	1	1	14.67	14.62	14.55	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	630834	633334	635934	Tune-up limit (dBm)	MPR	(dB)
				3462.51	3500.01	3537.51			
25	QPSK	1	1	14.60	14.68	14.63	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR	(dB)
				3460.02	3500.01	3540			
20	QPSK	1	1	14.70	14.65	14.63	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630500	633334	636068	Tune-up limit (dBm)	MPR	(dB)
				3457.5	3500.01	3542.52			
15	QPSK	1	1	14.65	14.68	14.69	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR	(dB)
				3455.01	3500.01	3545.01			
10	QPSK	1	1	14.65	14.75	14.70	16.0	0.0	

Part27Q n78 HPUE 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		3750	3750			
100	PI2 BPSK	1	137		15.18		16.0		0.0
100	PI2 BPSK	1	271		15.12				
100	PI2 BPSK	135	0		15.22		16.0	0.0	
100	PI2 BPSK	135	69		15.11			16.0	0.0
100	PI2 BPSK	135	138		15.17			16.0	0.0
100	PI2 BPSK	270	0		15.10				
100	QPSK	1	1		15.32				
100	QPSK	1	137		15.07		16.0		
100	QPSK	1	271		15.07			16.0	
100	QPSK	135	0		15.17		16.0	0.0	
100	QPSK	135	69		15.20			16.0	0.0
100	QPSK	135	138		15.16			16.0	0.0
100	QPSK	270	0		15.15			16.0	0.0
100	16QAM	1	1		15.07		16.0		
100	64QAM	1	1		15.22		16.0		
100	256QAM	1	1		15.10				
Channel									
Frequency (MHz)									
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR	(dB)
				3745.02	3750	3755.01			
90	QPSK	1	1	15.11	15.15	15.14	16.0		
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR	(dB)
				3740.01	3750	3760.02			
80	QPSK	1	1	15.19	15.10	15.08	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR	(dB)
				3735	3750	3765			
70	QPSK	1	1	15.20	15.17	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648668	650000	651334	Tune-up limit (dBm)	MPR	(dB)
				3730.02	3750	3770.01			
60	QPSK	1	1	15.13	15.25	15.24	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR	(dB)
				3725.01	3750	3775.02			
50	QPSK	1	1	15.19	15.10	15.18	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR	(dB)
				3720	3750	3780			
40	QPSK	1	1	15.03	15.11	15.23	16.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647668	650000	652334	Tune-up limit (dBm)	MPR	(dB)
				3715.02	3750	3785.01			
30	QPSK	1	1	15.03	15.23	15.15	16.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR	(dB)
				3710.01	3750	3790.02			
25	QPSK	1	1	15.04	15.10	15.24	16.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
				3705	3750	3795			
20	QPSK	1	1	15.17	15.17	15.20	16.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	646768	650000	653334	Tune-up limit (dBm)	MPR	(dB)
				3707.52	3750	3792.51			
15	QPSK	1	1	15.15	15.21	15.10	16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR	(dB)
				3705	3750	3795			
10	QPSK	1	1	15.20	15.16	15.10	16.0	0.0	

Par27Q 78 HPUE 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	14.43					
100	PI2 BPSK	1	137	14.45					
100	PI2 BPSK	1	271	14.46			16.0	0.0	
100	PI2 BPSK	135	0	14.50			16.0	0.0	
100	PI2 BPSK	135	69	14.50			16.0	0.0	
100	PI2 BPSK	135	136	14.51			16.0	0.0	
100	PI2 BPSK	270	0	14.56			16.0	0.0	
100	QPSK	1	1	14.72					
100	QPSK	1	137	14.77			16.0	0.0	
100	QPSK	1	271	14.78			16.0	0.0	
100	QPSK	135	0	14.81			16.0	0.0	
100	QPSK	135	69	14.80			16.0	0.0	
100	QPSK	135	136	14.84			16.0	0.0	
100	QPSK	270	0	14.83			16.0	0.0	
100	16QAM	1	1	14.77			16.0	0.0	
100	16QAM	1	1	14.68			16.0	0.0	
100	256QAM	1	1	14.52			16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.47	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.44	3500.01	3508.02	16.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.48	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.42	3500.01	3508.02	16.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.44	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.40	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.44	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.48	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.56	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.49	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.41	3500.01	3508.02	Tune-up limit (dBm)	MPR (dB)	

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		19.5	0.0
Frequency (MHz)					2310			
10	PV2 BPSK	1	1		18.43		19.5	0.0
10	PV2 BPSK	1	26		18.42			
10	PV2 BPSK	1	50		18.42			
10	PV2 BPSK	25	0		18.38		19.5	0.0
10	PV2 BPSK	25	14		18.36		19.5	0.0
10	PV2 BPSK	25	27		18.29		19.5	0.0
10	PV2 BPSK	50	0		18.33			
10	QPSK	1	1		18.53		19.5	0.0
10	QPSK	1	26		18.40			
10	QPSK	1	50		18.37			
10	QPSK	25	0		18.32		19.5	0.0
10	QPSK	25	14		18.43		19.5	0.0
10	QPSK	25	27		18.37		19.5	0.0
10	QPSK	50	0		18.34			
10	16QAM	1	1		18.41		19.5	0.0
10	64QAM	1	1		18.30		19.5	0.0
10	256QAM	1	1		18.33		19.5	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	18.24	18.39	18.36	19.5	0.0



n41 HPUE 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				505020	518598	530000			
Frequency (MHz)				2546.01	2592.99	2640			
100	P12 BPSK	1	1	18.97	19.11	19.10			
100	P12 BPSK	1	137	18.80	19.07	19.09			
100	P12 BPSK	1	271	19.03	19.08	18.99			
100	P12 BPSK	135	0	19.96	19.14	19.07	20.5	0.0	
100	P12 BPSK	135	69	18.89	19.10	19.13	20.5	0.0	
100	P12 BPSK	135	138	19.05	19.09	19.02	20.5	0.0	
100	P12 BPSK	270	0	19.83	19.12	19.11			
100	QPSK	1	1	18.92	19.16	19.09			
100	QPSK	1	137	19.80	19.10	19.09	20.5	0.0	
100	QPSK	1	271	19.05	19.10	19.04			
100	QPSK	135	0	18.93	19.13	19.09	20.5	0.0	
100	QPSK	135	69	18.84	19.16	19.11	20.5	0.0	
100	QPSK	135	138	19.10	19.13	19.00	20.5	0.0	
100	QPSK	270	0	19.85	19.05	19.07			
100	16QAM	1	1	18.79	19.13	19.07	20.5	0.0	
100	64QAM	1	1	19.13	19.12	19.11	20.5	0.0	
100	256QAM	1	1	17.24	17.32	17.30	19.5	1.0	
Channel				505202	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.86	19.11	19.15	20.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.83	19.15	19.09	20.5	0.0	
Channel				508202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.87	19.16	19.10	20.5	0.0	
Channel				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	18.89	19.08	19.09	20.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.86	19.15	19.16	20.5	0.0	
Channel				505202	518598	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.80	19.11	19.14	20.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.85	19.14	19.11	20.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.86	19.11	19.14	20.5	0.0	
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	18.88	19.10	19.08	20.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.79	19.16	19.12	20.5	0.0	

Par270 n77 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	18.50	18.72	18.65			
100	P12 BPSK	1	137	18.50	18.72	18.67			
100	P12 BPSK	1	271	18.53	18.67	18.58	20.0	0.0	
100	P12 BPSK	135	0	18.84	18.71	18.62	20.0	0.0	
100	P12 BPSK	135	69	18.82	18.58	18.74	20.0	0.0	
100	P12 BPSK	135	138	18.49	18.65	18.53	20.0	0.0	
100	P12 BPSK	270	0	18.41	18.68	18.63			
100	QPSK	1	1	18.67	18.99	18.77			
100	QPSK	1	137	18.59	18.63	18.55	20.0	0.0	
100	QPSK	1	271	18.42	18.61	18.72			
100	QPSK	135	0	18.54	18.75	18.71	20.0	0.0	
100	QPSK	135	69	18.57	18.88	18.58	20.0	0.0	
100	QPSK	135	138	18.45	18.65	18.48	20.0	0.0	
100	QPSK	270	0	18.44	18.75	18.60			
100	16QAM	1	1	18.87	18.81	18.79	20.0	0.0	
100	64QAM	1	1	18.58	18.80	18.63	20.0	0.0	
100	256QAM	1	1	18.60	18.65	18.58	20.0	0.0	
Channel				645068	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.49	18.81	18.63	20.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.47	18.75	18.61	20.0	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.45	18.72	18.61	20.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3732.02	3840	3950.01			
60	QPSK	1	1	18.50	18.74	18.56	20.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.43	18.71	18.55	20.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.43	18.78	18.57	20.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3963.01			
30	QPSK	1	1	18.54	18.79	18.60	20.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.41	18.77	18.60	20.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.50	18.77	18.59	20.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.45	18.70	18.57	20.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.54	18.74	18.57	20.0	0.0	

Part270q n77 HPUE 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				630000	633334	635000			
Frequency (MHz)						3500.01			
100	P12 BPSK	1	1		18.53				
100	P12 BPSK	1	137		18.47		20.0	0.0	
100	P12 BPSK	1	271		18.33				
100	P12 BPSK	135	0		18.38		20.0	0.0	
100	P12 BPSK	135	69		18.35		20.0	0.0	
100	P12 BPSK	135	138		18.50		20.0	0.0	
100	P12 BPSK	270	0		18.41				
100	QPSK	1	1		18.60				
100	QPSK	1	137		18.46		20.0	0.0	
100	QPSK	1	271		18.35				
100	QPSK	135	0		18.44		20.0	0.0	
100	QPSK	135	69		18.54		20.0	0.0	
100	QPSK	135	138		18.43		20.0	0.0	
100	QPSK	270	0		18.47				
100	64QAM	1	1		18.54		20.0	0.0	
100	64QAM	1	1		18.45		20.0	0.0	
100	256QAM	1	1		18.44				
Channel				630000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3486	3500.01	3505.02			
90	QPSK	1	1	18.26	18.38	18.35	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.36	18.45	18.28	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.28	18.44	18.24	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3488	3500.01	3520.02			
60	QPSK	1	1	18.30	18.42	18.30	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.34	18.38	18.25	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.36	18.47	18.34	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.34	18.40	18.32	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	18.33	18.38	18.35	20.0	0.0	
Channel				630338	633334	636360	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.00	3500.01	3540			
20	QPSK	1	1	18.29	18.38	18.34	20.0	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.37	18.39	18.30	20.0	0.0	
Channel				630334	633334	636534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.35	18.39	18.26	20.0	0.0	



Part27O n78 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		18.62		20.0	0.0	
100	PI2 BPSK	1	137		18.61				
100	PI2 BPSK	1	271		18.59				
100	PI2 BPSK	135	0		18.65		20.0	0.0	
100	PI2 BPSK	135	69		18.53		20.0	0.0	
100	PI2 BPSK	135	138		18.72		20.0	0.0	
100	PI2 BPSK	270	0		18.65				
100	QPSK	1	1		18.77				
100	QPSK	1	137		18.49		20.0	0.0	
100	QPSK	1	271		18.65				
100	QPSK	135	0		18.64		20.0	0.0	
100	QPSK	135	69		18.71		20.0	0.0	
100	QPSK	135	138		18.66		20.0	0.0	
100	QPSK	270	0		18.69				
100	16QAM	1	1		18.67		20.0	0.0	
100	64QAM	1	1		18.54		20.0	0.0	
100	256QAM	1	1		18.66		20.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	18.65	18.54	18.63	20.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	18.61	18.53	18.63	20.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	18.59	18.52	18.65	20.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	18.59	18.57	18.66	20.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	18.60	18.57	18.59	20.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	18.59	18.55	18.61	20.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	18.66	18.54	18.60	20.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3760.02			
25	QPSK	1	1	18.57	18.55	18.68	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705 <td>3750</td> <td>3795</td> <td></td> <td data-cs="2" data-kind="parent"></td> <td data-kind="ghost"></td>	3750	3795			
20	QPSK	1	1	18.62	18.57	18.64	20.0	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	18.59	18.55	18.67	20.0	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705 <td>3750</td> <td>3795</td> <td></td> <td data-cs="2" data-kind="parent"></td> <td data-kind="ghost"></td>	3750	3795			
10	QPSK	1	1	18.67	18.60	18.61	20.0	0.0	

Part27Q 78 HPUE 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				633000	633334	633668			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1		18.31		20.0	0.0	
100	PI2 BPSK	1	137		18.36				
100	PI2 BPSK	1	271		18.21				
100	PI2 BPSK	135	0		18.26		20.0	0.0	
100	PI2 BPSK	135	69		18.38		20.0	0.0	
100	PI2 BPSK	135	138		18.38		20.0	0.0	
100	PI2 BPSK	270	0		18.29				
100	QPSK	1	1		18.43				
100	QPSK	1	137		18.22		20.0	0.0	
100	QPSK	1	271		18.38				
100	QPSK	135	0		18.35		20.0	0.0	
100	QPSK	135	69		18.40		20.0	0.0	
100	QPSK	135	138		18.26		20.0	0.0	
100	QPSK	270	0		18.25				
100	16QAM	1	1		18.31		20.0	0.0	
100	64QAM	1	1		18.40		20.0	0.0	
100	256QAM	1	1		18.16		20.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.19	18.26	18.27	20.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.24	18.24	18.29	20.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.22	18.27	18.29	20.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.24	18.29	18.30	20.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.17	18.26	18.22	20.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.21	18.26	18.26	20.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.17	18.26	18.25	20.0	0.0	
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	18.22	18.26	18.25	20.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.16	18.30	18.28	20.0	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.19	18.21	18.24	20.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.19	18.25	18.20	20.0	0.0	

Full&Default Power Mode ENDC

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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	PV2 BPSK	1	1	22.59	22.61	22.58	24.0	0.0	
20	PV2 BPSK	1	53	22.51	22.43	22.46			
20	PV2 BPSK	1	104	22.56	22.58	22.44			
20	PV2 BPSK	50	0	22.14	22.22	22.08	23.5	0.5	
20	PV2 BPSK	50	28	22.52	22.60	22.49	24.0	0.0	
20	PV2 BPSK	50	56	22.13	22.16	22.09	23.5	0.5	
20	PV2 BPSK	100	0	22.13	22.21	22.08			
20	QPSK	1	1	22.65	22.71	22.63	24.0	0.0	
20	QPSK	1	53	22.56	22.56	22.59			
20	QPSK	1	104	22.61	22.65	22.52			
20	QPSK	50	0	21.70	21.66	21.61	23.0	1.0	
20	QPSK	50	28	22.53	22.65	22.51	24.0	0.0	
20	QPSK	50	56	21.67	21.72	21.68	23.0	1.0	
20	QPSK	100	0	21.63	21.75	21.58			
20	16QAM	1	1	21.71	21.68	21.61	23.0	1.0	
20	64QAM	1	1	20.14	20.24	20.15	21.5	2.5	
20	256QAM	1	1	18.13	18.19	18.15	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	22.54	22.56	22.50	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	24.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	22.53	22.55	22.52	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	24.0 <td colspan="2">0.0</td>	0.0	
5	QPSK	1	1	22.56	22.58	22.55	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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1870	1882.5	1895			
40	PV2 BPSK	1	1	22.45	22.48	22.38	24.0	0.0	
40	PV2 BPSK	1	108	22.29	22.39	22.31			
40	PV2 BPSK	1	214	22.28	22.54	22.38			
40	PV2 BPSK	108	0	22.03	22.16	22.07	23.5	0.5	
40	PV2 BPSK	108	54	22.38	22.52	22.41	24.0	0.0	
40	PV2 BPSK	108	108	22.00	22.11	21.97	23.5	0.5	
40	PV2 BPSK	216	0	21.98	22.10	21.98			
40	QPSK	1	1	22.50	22.62	22.52	24.0	0.0	
40	QPSK	1	108	22.35	22.52	22.46			
40	QPSK	1	214	22.38	22.57	22.42			
40	QPSK	108	0	21.52	21.56	21.51	23.0	1.0	
40	QPSK	108	54	22.41	22.59	22.43	24.0	0.0	
40	QPSK	108	108	21.48	21.58	21.46	23.0	1.0	
40	QPSK	216	0	21.55	21.63	21.57			
40	16QAM	1	1	21.49	21.58	21.53	23.0	1.0	
40	64QAM	1	1	20.04	20.10	20.05	21.5	2.5	
40	256QAM	1	1	17.97	18.13	17.99	19.5	4.5	
Channel				373000	376500	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900	24.0 <td colspan="2">0.0</td>	0.0	
30	QPSK	1	1	22.41	22.58	22.44	24.0	0.0	
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5	24.0 <td colspan="2">0.0</td>	0.0	
25	QPSK	1	1	22.41	22.54	22.44	24.0	0.0	
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1905	24.0	0.0	
20	QPSK	1	1	22.38	22.51	22.46	24.0	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5	24.0	0.0	
15	QPSK	1	1	22.43	22.55	22.40	24.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910	24.0	0.0	
10	QPSK	1	1	22.46	22.55	22.41	24.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5	24.0	0.0	
5	QPSK	1	1	22.46	22.52	22.45	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				1670	1800	1900	20.0	0.0	
Frequency (MHz)				18.61	18.64	18.64			
20	PI2 BPSK	1	1	18.61	18.64	18.64	20.0	0.0	
20	PI2 BPSK	1	53	18.57	18.28	18.53			
20	PI2 BPSK	1	104	18.49	18.51	18.48	20.0	0.0	
20	PI2 BPSK	50	0	18.50	18.63	18.47			
20	PI2 BPSK	50	28	18.45	18.37	18.48	20.0	0.0	
20	PI2 BPSK	50	56	18.55	18.65	18.56			
20	PI2 BPSK	100	0	18.70	18.51	18.45	20.0	0.0	
20	QPSK	1	1	18.60	18.72	18.58			
20	QPSK	1	53	18.53	18.47	18.39	20.0	0.0	
20	QPSK	1	104	18.58	18.68	18.49			
20	QPSK	50	0	18.49	18.60	18.60	20.0	0.0	
20	QPSK	50	28	18.48	18.61	18.54			
20	QPSK	50	56	18.60	18.62	18.60	20.0	0.0	
20	QPSK	100	0	18.58	18.51	18.56			
20	16QAM	1	1	18.68	18.61	18.58	20.0	0.0	
20	64QAM	1	1	18.55	18.40	18.44			
20	256QAM	1	1	18.15	18.10	18.07	18.5	0.5	
Channel				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	18.60	18.60	18.58	20.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	18.57	18.63	18.64	20.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	18.56	18.58	18.64	20.0	0.0	

Reduced Power Mode for Receive on ENDC									
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	167000	167800	21.0	0.0	
Frequency (MHz)				20.42	20.51	20.52			
20	PI2 BPSK	1	1	20.45	20.51	20.52	21.0	0.0	
20	PI2 BPSK	1	53	20.42	20.50	20.54			
20	PI2 BPSK	1	104	20.52	20.59	20.49	21.0	0.0	
20	PI2 BPSK	50	0	20.50	20.51	20.58			
20	PI2 BPSK	50	28	20.47	20.54	20.43	21.0	0.0	
20	PI2 BPSK	50	56	20.48	20.51	20.53			
20	PI2 BPSK	100	0	20.47	20.54	20.53	21.0	0.0	
20	QPSK	1	1	20.54	20.61	20.52			
20	QPSK	1	53	20.53	20.51	20.41	21.0	0.0	
20	QPSK	1	104	20.48	20.51	20.49			
20	QPSK	50	0	20.52	20.50	20.45	21.0	0.0	
20	QPSK	50	28	20.47	20.53	20.40			
20	QPSK	50	56	20.44	20.44	20.39	21.0	0.0	
20	QPSK	100	0	20.51	20.58	20.57			
20	16QAM	1	1	20.48	20.47	20.47	21.0	0.0	
20	64QAM	1	1	20.55	20.53	20.49			
20	256QAM	1	1	19.02	19.05	19.06	19.5	1.5	
Channel				166300	167000	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	40	20.50	20.53	20.58	21.0	0.0	
Channel				166800	167000	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				830	836.5	844			
10	QPSK	1	26	20.57	20.52	20.50	21.0	0.0	
Channel				166300	167000	168900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	13	20.55	20.51	20.54	21.0	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	376000	379000	20.0	0.0	
Frequency (MHz)				1870	1883.5	1895			
40	PI2 BPSK	1	1	18.50	18.63	18.46	20.0	0.0	
40	PI2 BPSK	1	108	18.48	18.58	18.41			
40	PI2 BPSK	1	214	18.49	18.58	18.47	20.0	0.0	
40	PI2 BPSK	108	0	18.48	18.50	18.56			
40	PI2 BPSK	108	54	18.42	18.46	18.42	20.0	0.0	
40	PI2 BPSK	108	108	18.39	18.55	18.47			
40	PI2 BPSK	216	0	18.43	18.49	18.46	20.0	0.0	
40	QPSK	1	1	18.49	18.73	18.61			
40	QPSK	1	108	18.49	18.66	18.37	20.0	0.0	
40	QPSK	1	214	18.36	18.60	18.31			
40	QPSK	108	0	18.63	18.51	18.55	20.0	0.0	
40	QPSK	108	54	18.44	18.63	18.48			
40	QPSK	108	108	18.38	18.56	18.51	20.0	0.0	
40	QPSK	216	0	18.51	18.55	18.39			
40	16QAM	1	1	18.48	18.64	18.59	20.0	0.0	
40	64QAM	1	1	18.51	18.51	18.32			
40	256QAM	1	1	17.58	17.56	17.36	18.5	0.5	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	18.53	18.64	18.54	20.0	0.0	
Channel				372000	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	18.49	18.62	18.47	20.0	0.0	
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1895			
20	QPSK	1	1	18.47	18.61	18.55	20.0	0.0	
Channel				371800	376000	381600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1882.5	1907.5			
15	QPSK	1	1	18.44	18.68	18.50	20.0	0.0	
Channel				371800	376000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	18.47	18.60	18.52	20.0	0.0	
Channel				370500	376000	375000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1882.5	1912.5			
5	QPSK	1	1	18.42	18.64	18.53	20.0	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	18.0	0.0
Frequency (MHz)				1720	1745	1760		
40	PI2 BPSK	1	1	16.85	16.95	17.02		
40	PI2 BPSK	1	108	16.83	16.79	16.73	18.0	0.0
40	PI2 BPSK	1	214	16.79	16.97	16.79		
40	PI2 BPSK	108	0	17.05	17.03	16.92		
40	PI2 BPSK	108	54	16.83	16.80	16.76	18.0	0.0
40	PI2 BPSK	108	108	16.71	16.80	16.78		
40	PI2 BPSK	216	0	16.71	16.91	16.96		
40	QPSK	1	1	16.82	17.12	17.03	18.0	0.0
40	QPSK	1	108	16.86	16.80	16.81		
40	QPSK	1	214	16.97	16.87	16.80		
40	QPSK	108	0	16.90	16.92	16.76	18.0	0.0
40	QPSK	108	54	16.72	16.96	16.93		
40	QPSK	108	108	16.87	16.89	16.84		
40	QPSK	216	0	16.76	16.70	16.65	18.0	0.0
40	16QAM	1	1	16.75	17.01	16.69		
40	16QAM	1	1	16.73	16.95	16.96		
40	256QAM	1	1	16.77	16.87	16.84	18.0	0.0
Channel				345000	345000	350000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	16.86	17.00	17.05	18.0	0.0
Channel				345000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.86	17.04	17.05	18.0	0.0
Channel				345000	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.90	17.08	16.91	18.0	0.0
Channel				343000	349000	350000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.81	17.03	16.99	18.0	0.0
Channel				342500	349000	350000		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.94	17.08	17.05	18.0	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				136000	136100	137600	20.0	0.0
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	16.76	16.85	16.73		
20	PI2 BPSK	1	53	16.58	16.68	16.72	20.0	0.0
20	PI2 BPSK	1	104	16.67	16.69	16.82		
20	PI2 BPSK	50	0	16.77	16.85	16.79		
20	PI2 BPSK	50	26	16.55	16.72	16.57	20.0	0.0
20	PI2 BPSK	50	56	16.74	16.73	16.84		
20	PI2 BPSK	100	0	16.57	16.72	16.62		
20	QPSK	1	1	16.81	16.92	16.80	20.0	0.0
20	QPSK	1	53	16.66	16.65	16.57		
20	QPSK	1	104	16.65	16.72	16.75		
20	QPSK	50	0	16.75	16.70	16.71	20.0	0.0
20	QPSK	50	26	16.62	16.76	16.62		
20	QPSK	50	56	16.66	16.73	16.71		
20	QPSK	100	0	16.75	16.86	16.72	20.0	0.0
20	16QAM	1	1	16.59	16.67	16.69		
20	16QAM	1	1	16.69	16.69	16.75		
20	256QAM	1	1	16.26	16.57	16.33	18.5	0.0
Channel				134100	136100	136100		
Frequency (MHz)				670.5	680.5	680.5		
15	QPSK	1	1	16.62	16.72	16.61	20.0	0.0
Channel				136000	136100	136600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	16.55	16.65	16.62	20.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				664.5	680.5	696.5		
5	QPSK	1	1	16.54	16.63	16.66	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				5060.02	5189.98	5290.00				
Frequency (MHz)				2546.01	2592.99	2640				
100	PQ2 BPSK	1	1	22.03	22.10	22.04		23.0	0.0	
100	PQ2 BPSK	1	137	21.75	22.00	21.93				
100	PQ2 BPSK	1	271	22.00	22.05	22.02				
100	PQ2 BPSK	135	0	22.01	22.02	21.98	23.0	0.0	0.0	
100	PQ2 BPSK	135	69	21.96	22.12	21.78	23.0			
100	PQ2 BPSK	135	138	21.98	21.92	21.99	23.0			
100	PQ2 BPSK	270	0	21.89	21.97	21.82	23.0	0.0	0.0	
100	QPSK	1	1	21.91	22.13	21.98				
100	QPSK	1	137	21.86	22.01	21.89	23.0			
100	QPSK	1	271	22.06	22.00	22.05		0.0	0.0	
100	QPSK	135	0	21.88	22.02	22.04	23.0			
100	QPSK	135	69	21.90	22.04	21.81	23.0			
100	QPSK	135	138	22.05	22.04	21.85	23.0	0.0	0.0	
100	QPSK	270	0	21.92	21.93	21.92				
100	16QAM	1	1	21.99	22.07	21.95	23.0			
100	64QAM	1	1	21.81	22.01	21.82	23.0	1.5	1.5	
100	256QAM	1	1	20.51	20.51	20.55	21.5			
Channel				5062.00	5189.98	5289.98	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	21.97	22.11	22.01	23.0	0.0	0.0	
Channel				5072.04	5189.98	5209.98	Tune-up limit (dBm)			
Frequency (MHz)				2638.00	2692.99	2698.99				
80	QPSK	1	1	22.04	22.09	22.03	23.0	0.0	0.0	
Channel				5052.00	5189.98	5319.98	Tune-up limit (dBm)			
Frequency (MHz)				2706	2592.99	2699.98				
60	QPSK	1	1	22.00	22.10	22.09	23.0	0.0	0.0	
Channel				5042.04	5189.98	5329.98	Tune-up limit (dBm)			
Frequency (MHz)				2621.02	2592.99	2664.99				
50	QPSK	1	1	21.96	22.09	22.10	23.0	0.0	0.0	
Channel				5032.02	5195.98	5310.00	Tune-up limit (dBm)			
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	22.04	22.10	22.11	23.0	0.0	0.0	
Channel				5022.00	5189.98	5349.98	Tune-up limit (dBm)			
Frequency (MHz)				2611	2592.99	2674.98				
30	QPSK	1	1	21.97	22.09	22.02	23.0	0.0	0.0	
Channel				5012.04	5189.98	5359.98	Tune-up limit (dBm)			
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	21.96	22.11	22.04	23.0	0.0	0.0	
Channel				5002.00	5189.98	5369.98	Tune-up limit (dBm)			
Frequency (MHz)				2503.5	2592.99	2682.48				
15	QPSK	1	1	21.95	22.06	22.11	23.0	0.0	0.0	
Channel				5002.02	5189.98	5370.00	Tune-up limit (dBm)			
Frequency (MHz)				2501.01	2592.99	2685				
10	QPSK	1	1	21.99	22.08	22.02	23.0	0.0	0.0	
Channel										
Frequency (MHz)										

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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				6060.00	6060.00	6060.00				
Frequency (MHz)				3750	3840	3930				
100	PQ2 BPSK	1	1	28.06	28.08	28.70		29.0	0.0	
100	PQ2 BPSK	1	137	27.94	27.91	27.49				
100	PQ2 BPSK	1	271	28.03	28.03	27.80				
100	PQ2 BPSK	135	0	27.73	27.63	27.28	28.5	0.5	0.5	
100	PQ2 BPSK	135	69	28.05	28.11	27.86	29.0			
100	PQ2 BPSK	135	138	27.71	27.66	27.29	28.5			
100	PQ2 BPSK	270	0	27.59	27.59	27.34		0.0	0.0	
100	QPSK	1	1	28.10	28.16	27.79				
100	QPSK	1	137	28.04	27.98	27.56	29.0			
100	QPSK	1	271	27.99	28.10	27.66		0.0	0.0	
100	QPSK	135	0	27.17	27.22	26.82	29.0			
100	QPSK	135	69	28.06	28.08	27.68	29.0			
100	QPSK	135	138	27.24	27.10	26.73	29.0	0.0	0.0	
100	QPSK	270	0	27.15	27.23	26.76				
100	16QAM	1	1	27.17	27.17	26.79	28.0			
100	64QAM	1	1	25.65	25.65	25.26	25.5	4.5	4.5	
100	256QAM	1	1	23.65	23.62	23.28	24.5			
Channel				6466.68	6560.00	6623.04	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3935.01				
90	QPSK	1	1	28.02	28.12	27.67	29.0	0.0	0.0	
Channel				6493.04	6060.00	6206.68	Tune-up limit (dBm)			
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	28.00	28.06	27.67	29.0	0.0	0.0	
Channel				6490.00	6060.00	6200.00	Tune-up limit (dBm)			
Frequency (MHz)				3735	3840	3945				
70	QPSK	1	1	28.05	28.05	27.69	29.0	0.0	0.0	
Channel				6496.68	6060.00	6233.00	Tune-up limit (dBm)			
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	27.99	28.03	27.72	29.0	0.0	0.0	
Channel				6493.04	6060.00	6230.00	Tune-up limit (dBm)			
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	28.08	28.04	27.69	29.0	0.0	0.0	
Channel				6490.00	6060.00	6240.00	Tune-up limit (dBm)			
Frequency (MHz)				3732	3840	3940				
40	QPSK	1	1	27.97	28.04	27.67	29.0	0.0	0.0	
Channel				6476.68	6060.00	6243.04	Tune-up limit (dBm)			
Frequency (MHz)				3715.02	3840	3955.01				
30	QPSK	1	1	27.99	28.08	27.78	29.0	0.0	0.0	
Channel				6475.00	6060.00	6250.00	Tune-up limit (dBm)			
Frequency (MHz)				3712.5	3840	3967.5				
25	QPSK	1	1	27.96	28.02	27.72	29.0	0.0	0.0	
Channel				6473.04	6060.00	6255.00	Tune-up limit (dBm)			
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	27.98	28.07	27.66	29.0	0.0	0.0	
Channel				6471.68	6060.00	6248.04	Tune-up limit (dBm)			
Frequency (MHz)				3707.52	3840	3972.51				
15	QPSK	1	1	28.00	28.07	27.71	29.0	0.0	0.0	
Channel				6470.00	6060.00	6250.00	Tune-up limit (dBm)			
Frequency (MHz)				3705	3840	3975				
10	QPSK	1	1	27.98	28.04	27.70	29.0	0.0	0.0	
Channel										
Frequency (MHz)										

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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						6333.04			
Frequency (MHz)						3500.01			
100	PQ2 BPSK	1	1			2774		29.0	0.0
100	PQ2 BPSK	1	137			2773			
100	PQ2 BPSK	1	271			2769			
100	PQ2 BPSK	135	0			2738	28.5	0.5	0.5
100	PQ2 BPSK	135	69			2778	29.0		
100	PQ2 BPSK	135	138			2740	28.5		
100	PQ2 BPSK	270	0			2732		0.0	0.0
100	QPSK	1	1			2768			
100	QPSK	1	137			2777	29.0		
100	QPSK	1	271			2769		0.0	0.0
100	QPSK	135	0			2862	29.0		
100	QPSK	135	69			2781	29.0		
100	QPSK	135	138			2861	29.0	0.0	0.0
100	QPSK	270	0			2869			
100	16QAM	1	1			2863	28.0		
100	64QAM	1	1			2840	28.5	1.5	2.5
100	256QAM	1	1			2835	24.5		
Channel				633000	633334	633668	29.5		
Frequency (MHz)						3500.01	3055.02	MPR (dB)	
40	QPSK	1	1	2770	2782	2770	29.0	0.0	
Channel				632668	633334	634000		MPR (dB)	
Frequency (MHz)				3486.02	3500.01	3510	Tune-up limit (dBm)		
80	QPSK	1	1	2774	2772	2765	29.0	0.0	
Channel				633334	633334	634334		MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	Tune-up limit (dBm)		
70	QPSK	1	1	2781	2773	2774	29.0	0.0	
Channel				633000	633334	633968	Tune-up limit (dBm)	MPR	
70	QPSK	1	1	3480	3500.01	3500.02	29.0	0.0	
Frequency (MHz)									
60	QPSK	1	1	2775	2774	2772	29.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3479.02	3500.01	3505	Tune-up limit (dBm)		
40	QPSK	1	1	2773	2772	2771	29.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
40	QPSK	1	1	3470.01	3500.01	3500.01	29.0	0.0	
Frequency (MHz)									
30	QPSK	1	1	2776	2782	2770	29.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	3465	3500.01	3535.02	29.0	0.0	
Frequency (MHz)									
30	QPSK	1	1	2780	2781	2768	29.0	0.0	
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3468.51	3500.01	3507.81	Tune-up limit (dBm)		
25	QPSK	1	1	2777	2774	2771	29.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3462.02	3500.01	3540	Tune-up limit (dBm)		
20	QPSK	1	1	2769	2778	2765	29.0	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	3465	3500.01	3542.52	29.0	0.0	
Frequency (MHz)									
15	QPSK	1	1	2787	2773	2767	29.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	Tune-up limit (dBm)		
10	QPSK	1	1	2777	2774	2773	29.0	0.0	

Part270 n78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pi2 BPSK	1	1		27.94		29.0	0.0	
100	Pi2 BPSK	1	137		27.80				
100	Pi2 BPSK	1	271		27.91				
100	Pi2 BPSK	135	0		27.54		28.5	0.5	
100	Pi2 BPSK	135	69		28.05		29.0	0.0	
100	Pi2 BPSK	135	138		27.59		28.5	0.5	
100	Pi2 BPSK	270	0		27.46				
100	QPSK	1	1		28.10		29.0	0.0	
100	QPSK	1	137		27.82				
100	QPSK	1	271		28.02				
100	QPSK	135	0		27.11		29.0	0.0	
100	QPSK	135	69		28.02		29.0	0.0	
100	QPSK	135	138		27.05		29.0	0.0	
100	QPSK	270	0		27.13				
100	16QAM	1	1		27.13		28.0	1.0	
100	64QAM	1	1		25.62		26.5	2.5	
100	256QAM	1	1		23.52		24.5	4.5	
Channel				640068	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		27.92	28.00	27.56	29.0	0.0
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		27.89	28.09	27.59	29.0	0.0
Channel				640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		27.90	28.05	27.60	29.0	0.0
Channel				640668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		27.98	27.98	27.61	29.0	0.0
Channel				641334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		27.96	28.07	27.53	29.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		27.88	27.99	27.60	29.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		27.90	28.02	27.60	29.0	0.0
Channel				647000	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		27.90	28.04	27.56	29.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		27.89	27.99	27.62	29.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		27.96	28.04	27.63	29.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		27.92	28.04	27.64	29.0	0.0

Part27Q 78 HPUE 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)				633000	633334	633668			
100	Pi2 BPSK	1	1		27.50		29.0	0.0	
100	Pi2 BPSK	1	137		27.51				
100	Pi2 BPSK	1	271		27.43				
100	Pi2 BPSK	135	0		27.09		28.5	0.5	
100	Pi2 BPSK	135	69		27.50		29.0	0.0	
100	Pi2 BPSK	135	138		27.15		28.5	0.5	
100	Pi2 BPSK	270	0		27.09				
100	QPSK	1	1		27.62		29.0	0.0	
100	QPSK	1	137		27.51				
100	QPSK	1	271		27.48				
100	QPSK	135	0		26.52		29.0	0.0	
100	QPSK	135	69		27.54		29.0	0.0	
100	QPSK	135	138		26.60		29.0	0.0	
100	QPSK	270	0		26.60				
100	16QAM	1	1		26.55		26.5	2.5	
100	64QAM	1	1		25.12		26.5	2.5	
100	256QAM	1	1		23.12		24.5	4.5	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1		27.49	27.59	27.40	29.0	0.0
Channel				630668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1		27.50	27.56	27.40	29.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1		27.45	27.55	27.50	29.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1		27.43	27.56	27.41	29.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1		27.46	27.56	27.51	29.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		27.49	27.57	27.45	29.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3536.02	(dBm)	(dB)	
30	QPSK	1	1		27.45	27.58	27.42	29.0	0.0
Channel				630668	633334	635834	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1		27.49	27.56	27.43	29.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1		27.41	27.62	27.49	29.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1		27.48	27.56	27.39	29.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1		27.46	27.58	27.41	29.0	0.0



n2 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				372000	376000	380000	18.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	17.06	17.17	17.10			
20	PI/2 BPSK	1	53	16.84	17.10	17.02	18.5	0.0	
20	PI/2 BPSK	1	104	16.91	17.11	17.07			
20	PI/2 BPSK	50	0	17.01	17.13	17.05			
20	PI/2 BPSK	50	28	16.91	17.02	16.97	18.5	0.0	
20	PI/2 BPSK	50	56	16.85	17.12	17.01			
20	PI/2 BPSK	100	0	16.93	17.01	16.95			
20	QPSK	1	1	16.97	17.30	17.07	18.5	0.0	
20	QPSK	1	53	16.84	17.06	16.92			
20	QPSK	1	104	16.95	17.11	17.06			
20	QPSK	50	0	16.97	17.06	17.04	18.5	0.0	
20	QPSK	50	28	16.85	17.17	17.02			
20	QPSK	50	56	16.90	17.07	17.04			
20	QPSK	100	0	16.85	17.03	16.95	18.5	0.0	
20	16QAM	1	1	16.96	17.15	17.08			
20	64QAM	1	1	16.88	17.10	16.94			
20	256QAM	1	1	16.94	17.17	17.06	18.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.90	17.09	16.96	18.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.92	17.08	17.02	18.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	16.83	17.10	16.94	18.5	0.0	
Channel									
Frequency (MHz)									

n66 Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	17.30	17.45	
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	12.69	12.90	12.80			
40	PI/2 BPSK	1	108	12.60	12.85	12.74	14.5	0.0	
40	PI/2 BPSK	1	214	12.71	12.88	12.79			
40	PI/2 BPSK	108	0	12.74	12.90	12.85			
40	PI/2 BPSK	108	54	12.70	12.80	12.79	14.5	0.0	
40	PI/2 BPSK	108	108	12.65	12.86	12.80			
40	PI/2 BPSK	216	0	12.63	12.87	12.79			
40	QPSK	1	1	12.69	12.95	12.89	14.5	0.0	
40	QPSK	1	108	12.65	12.80	12.73			
40	QPSK	1	214	12.73	12.92	12.71			
40	QPSK	108	0	12.71	12.89	12.82	14.5	0.0	
40	QPSK	108	54	12.66	12.91	12.77			
40	QPSK	108	108	12.71	12.83	12.71			
40	QPSK	216	0	12.69	12.92	12.77	14.5	0.0	
40	16QAM	1	1	12.75	12.90	12.86			
40	64QAM	1	1	12.63	12.86	12.71			
40	256QAM	1	1	12.65	12.89	12.72	14.5	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	12.72	12.84	12.77	14.5	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	12.66	12.87	12.82	14.5	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	12.69	12.85	12.73	14.5	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	12.64	12.90	12.79	14.5	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	12.72	12.90	12.75	14.5	0.0	
Channel									
Frequency (MHz)									



Par270 n77 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	P12 BPSK	1	1	16.50	16.64	16.33	17.0	0.0	
100	P12 BPSK	1	137	16.35	16.49	16.43			
100	P12 BPSK	1	271	16.25	16.53	16.44	17.0	0.0	
100	P12 BPSK	135	0	16.54	16.43	16.33			
100	P12 BPSK	135	69	16.28	16.45	16.51	17.0	0.0	
100	P12 BPSK	135	138	16.38	16.58	16.43			
100	P12 BPSK	270	0	16.36	16.62	16.52	17.0	0.0	
100	QPSK	1	1	16.54	16.67	16.47			
100	QPSK	1	137	16.39	16.53	16.36	17.0	0.0	
100	QPSK	1	271	16.31	16.60	16.49			
100	QPSK	135	0	16.55	16.49	16.52	17.0	0.0	
100	QPSK	135	69	16.26	16.66	16.57			
100	QPSK	135	138	16.43	16.57	16.36	17.0	0.0	
100	QPSK	270	0	16.35	16.48	16.45			
100	16QAM	1	1	16.60	16.65	16.36	17.0	0.0	
100	64QAM	1	1	16.37	16.47	16.45		17.0	
100	256QAM	1	1	16.38	16.53	16.45	17.0	0.0	
Channel				646668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	16.36	16.35	16.45	17.0	0.0	
Channel				648334	650000	652668		MPR (dB)	
Frequency (MHz)				3748.01	3840	3940.02			
80	QPSK	1	1	16.33	16.42	16.44	17.0	0.0	
Channel				648000	650000	653000		MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	16.32	16.33	16.37	17.0	0.0	
Channel				646668	650000	653334		MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.39	16.38	16.34	17.0	0.0	
Channel				648334	650000	653668		MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.39	16.43	16.34	17.0	0.0	
Channel				648000	650000	654000		MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.40	16.38	16.35	17.0	0.0	
Channel				647668	650000	654334		MPR (dB)	
Frequency (MHz)				3715.01	3840	3965.01			
30	QPSK	1	1	16.33	16.45	16.46	17.0	0.0	
Channel				647500	650000	654500		MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	16.39	16.38	16.38	17.0	0.0	
Channel				647334	650000	654668		MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.37	16.33	16.40	17.0	0.0	
Channel				647168	650000	654834		MPR (dB)	
Frequency (MHz)				3707.51	3840	3972.51			
15	QPSK	1	1	16.35	16.46	16.46	17.0	0.0	
Channel				647000	650000	655000		MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	16.28	16.36	16.31	17.0	0.0	

Part27Q n77 HPUE 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				633334					
Frequency (MHz)				3500.01					
100	P12 BPSK	1	1		16.12		17.0	0.0	
100	P12 BPSK	1	137		16.06				
100	P12 BPSK	1	271		16.27		17.0	0.0	
100	P12 BPSK	135	0		16.06				
100	P12 BPSK	135	69		15.98		17.0	0.0	
100	P12 BPSK	135	138		15.94				
100	P12 BPSK	270	0		16.12		17.0	0.0	
100	QPSK	1	1		16.31				
100	QPSK	1	137		16.27		17.0	0.0	
100	QPSK	1	271		16.08				
100	QPSK	135	0		16.15		17.0	0.0	
100	QPSK	135	69		16.28				
100	QPSK	135	138		16.00		17.0	0.0	
100	QPSK	270	0		16.14				
100	16QAM	1	1		15.99		17.0	0.0	
100	64QAM	1	1		16.04			17.0	
100	256QAM	1	1		15.97		17.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	16.20	16.23	16.05	17.0	0.0	
Channel				632668	633334	634000		MPR (dB)	
Frequency (MHz)				3498.02	3500.01	3510			
80	QPSK	1	1	16.16	16.17	16.05	17.0	0.0	
Channel				632334	633334	634334		MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	16.14	16.19	16.09	17.0	0.0	
Channel				632000	633334	634668		MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	16.16	16.14	16.12	17.0	0.0	
Channel				631668	633334	635000		MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	16.16	16.20	16.15	17.0	0.0	
Channel				631334	633334	635334		MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	16.20	16.22	16.17	17.0	0.0	
Channel				631000	633334	635668		MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	16.22	16.23	16.20	17.0	0.0	
Channel				630834	633334	635834		MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	16.16	16.10	16.07	17.0	0.0	
Channel				630668	633334	636000		MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	16.15	16.20	16.19	17.0	0.0	
Channel				630500	633334	636168		MPR (dB)	
Frequency (MHz)				3457.51	3500.01	3542.52			
15	QPSK	1	1	16.10	16.16	16.05	17.0	0.0	
Channel				630334	633334	636334		MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	16.22	16.12	16.19	17.0	0.0	

Part270 n78 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P12 BPSK	1	1		16.42		17.0	0.0	
100	P12 BPSK	1	137		16.39				
100	P12 BPSK	1	271		16.42		17.0	0.0	
100	P12 BPSK	135	0		16.36				
100	P12 BPSK	135	69		16.38		17.0	0.0	
100	P12 BPSK	135	138		16.37				
100	P12 BPSK	270	0		16.45		17.0	0.0	
100	QPSK	1	1		16.39				
100	QPSK	1	137		16.51		17.0	0.0	
100	QPSK	1	271		16.33				
100	QPSK	135	0		16.40		17.0	0.0	
100	QPSK	135	69		16.41				
100	QPSK	135	138		16.38		17.0	0.0	
100	QPSK	270	0		16.39				
100	16QAM	1	1		16.47		17.0	0.0	
100	64QAM	1	1		16.39				
100	256QAM	1	1		16.44		17.0	0.0	
Channel				648668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.47	16.43	16.32	17.0	0.0	
Channel				648334	650000	650666			
Frequency (MHz)				3743.01	3750	3760.02			
80	QPSK	1	1	16.37	16.39	16.36	17.0	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.42	16.45	16.38	17.0	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3740.02	3750	3760.01			
60	QPSK	1	1	16.41	16.38	16.30	17.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3735.01	3750	3775.02			
50	QPSK	1	1	16.24	16.48	16.33	17.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	16.46	16.49	16.36	17.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	16.43	16.30	16.26	17.0	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	16.47	16.49	16.43	17.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3780.02			
20	QPSK	1	1	16.47	16.48	16.34	17.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	16.38	16.40	16.33	17.0	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	16.37	16.49	16.43	17.0	0.0	

Part27Q 78 HPUE 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				633334			17.0	0.0	
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		16.13		17.0	0.0	
100	PI/2 BPSK	1	137		16.08				
100	PI/2 BPSK	1	271		16.10		17.0	0.0	
100	PI/2 BPSK	135	0		16.20				
100	PI/2 BPSK	135	69		16.11		17.0	0.0	
100	PI/2 BPSK	135	138		16.10				
100	PI/2 BPSK	270	0		16.16		17.0	0.0	
100	QPSK	1	1		16.25				
100	QPSK	1	137		16.13		17.0	0.0	
100	QPSK	1	271		16.10				
100	QPSK	135	0		16.09		17.0	0.0	
100	QPSK	135	69		16.10				
100	QPSK	135	138		16.06		17.0	0.0	
100	QPSK	270	0		16.21				
100	16QAM	1	1		16.16		17.0	0.0	
100	64QAM	1	1		16.10				
100	256QAM	1	1		16.09		17.0		0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		15.98	16.10	17.0	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1		16.05	16.09			
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		15.99	16.18	17.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1		16.02	16.12			
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3472.02	3500.01	3525			
50	QPSK	1	1		16.11	16.09	17.0	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1		16.00	16.10			
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3545.02			
30	QPSK	1	1		15.98	16.17	17.0	0.0	
Channel				630834	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1		16.03	16.09			
Channel				630500	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		15.96	16.10	17.0	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1		15.97	16.14			
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		15.98	16.08	17.0	0.0	

n41 HPUE 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				509202	518598	528000	19.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.96	18.59	18.14	19.0	0.0
100	PI/2 BPSK	1	137	17.80	18.65	18.13		
100	PI/2 BPSK	1	271	17.83	18.57	18.21	19.0	0.0
100	PI/2 BPSK	135	0	17.88	18.54	18.12		
100	PI/2 BPSK	135	69	17.87	18.60	18.07	19.0	0.0
100	PI/2 BPSK	135	138	17.88	18.41	18.10		
100	PI/2 BPSK	270	0	17.87	18.61	18.10	19.0	0.0
100	QPSK	1	1	17.85	18.66	18.09		
100	QPSK	1	137	17.86	18.51	18.12	19.0	0.0
100	QPSK	1	271	17.78	18.58	18.11		
100	QPSK	135	0	17.93	18.50	18.08	19.0	0.0
100	QPSK	135	69	17.81	18.65	18.09		
100	QPSK	135	138	17.81	18.65	18.16	19.0	0.0
100	QPSK	270	0	17.96	18.49	18.17		
100	16QAM	1	1	17.84	18.53	18.22	19.0	0.0
100	64QAM	1	1	17.85	18.58	18.15		
100	256QAM	1	1	17.86	18.56	18.17	19.0	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98	19.0	0.0
90	QPSK	1	1	17.93	18.55	18.16		
Channel				507204	518598	529998	19.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.97	18.53	18.10	19.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655	19.0	0.0
70	QPSK	1	1	17.97	18.57	18.13		
Channel				505200	518598	531996	19.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.89	18.59	18.18	19.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	19.0	0.0
50	QPSK	1	1	17.92	18.57	18.14		
Channel				503202	518598	534000	19.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.97	18.54	18.17	19.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	19.0	0.0
30	QPSK	1	1	17.96	18.59	18.18		
Channel				501204	518598	535998	19.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.99	18.64	18.12	19.0	0.0
Channel				500700	518598	536996		
Frequency (MHz)				2503.5	2592.99	2682.48	19.0	0.0
15	QPSK	1	1	17.97	18.54	18.14		
Channel				500202	518598	537000	19.0	0.0
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.91	18.58	18.17	19.0	0.0
Channel								

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		14.0	0.0
Frequency (MHz)					2310			
10	PV2 BPSK	1	1		12.89		14.0	0.0
10	PV2 BPSK	1	26		12.90			
10	PV2 BPSK	1	50		12.88			
10	PV2 BPSK	25	0		12.93		14.0	0.0
10	PV2 BPSK	25	14		12.87		14.0	0.0
10	PV2 BPSK	25	27		12.80		14.0	0.0
10	PV2 BPSK	50	0		12.83			
10	QPSK	1	1		12.98		14.0	0.0
10	QPSK	1	26		12.83			
10	QPSK	1	50		12.93			
10	QPSK	25	0		12.81		14.0	0.0
10	QPSK	25	14		12.93		14.0	0.0
10	QPSK	25	27		12.77		14.0	0.0
10	QPSK	50	0		12.73			
10	16QAM	1	1		12.94		14.0	0.0
10	64QAM	1	1		12.87		14.0	0.0
10	256QAM	1	1		12.81		14.0	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	12.78	12.88	12.88	14.0	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)				1867.5	1880	1900			
20	PI2 BPSK	1	1	14.11	14.12	14.12		15.5	0.0
20	PI2 BPSK	1	53	14.05	13.84	14.08		15.5	0.0
20	PI2 BPSK	1	104	14.01	13.99	13.94		15.5	0.0
20	PI2 BPSK	50	0	14.04	14.08	14.03		15.5	0.0
20	PI2 BPSK	50	28	13.97	13.92	13.98		15.5	0.0
20	PI2 BPSK	50	56	14.04	14.12	14.01		15.5	0.0
20	PI2 BPSK	100	0	14.15	14.04	14.00		15.5	0.0
20	QPSK	1	1	14.14	14.16	14.06		15.5	0.0
20	QPSK	1	53	13.96	14.00	13.93		15.5	0.0
20	QPSK	1	104	14.02	14.13	14.05		15.5	0.0
20	QPSK	50	0	14.03	14.04	14.05		15.5	0.0
20	QPSK	50	28	14.03	14.09	14.06		15.5	0.0
20	QPSK	50	56	14.06	14.07	14.00		15.5	0.0
20	QPSK	100	0	14.05	13.97	14.02		15.5	0.0
20	16QAM	1	1	14.15	14.08	14.11		15.5	0.0
20	64QAM	1	1	14.03	13.96	13.92		15.5	0.0
20	256QAM	1	1	14.10	14.11	14.07		15.5	0.0
Channel				371500	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	14.03	14.05	14.03		15.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	14.08	14.13	14.01		15.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5			
5	QPSK	1	1	14.02	14.12	14.08		15.5	0.0

Reduced Power Mode for Sensor on ENDC									
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	834.5	835			
20	PI2 BPSK	1	1	20.46	20.51	20.52		21.0	0.0
20	PI2 BPSK	1	53	20.42	20.50	20.54		21.0	0.0
20	PI2 BPSK	1	104	20.52	20.59	20.49		21.0	0.0
20	PI2 BPSK	50	0	20.50	20.51	20.58		21.0	0.0
20	PI2 BPSK	50	28	20.47	20.54	20.43		21.0	0.0
20	PI2 BPSK	50	56	20.48	20.51	20.53		21.0	0.0
20	PI2 BPSK	100	0	20.47	20.54	20.53		21.0	0.0
20	QPSK	1	1	20.54	20.61	20.52		21.0	0.0
20	QPSK	1	53	20.53	20.51	20.41		21.0	0.0
20	QPSK	1	104	20.48	20.51	20.49		21.0	0.0
20	QPSK	50	0	20.52	20.50	20.49		21.0	0.0
20	QPSK	50	28	20.47	20.53	20.40		21.0	0.0
20	QPSK	50	56	20.44	20.44	20.39		21.0	0.0
20	QPSK	100	0	20.51	20.58	20.57		21.0	0.0
20	16QAM	1	1	20.48	20.47	20.47		21.0	0.0
20	64QAM	1	1	20.55	20.53	20.49		21.0	0.0
20	256QAM	1	1	19.02	19.05	19.06		19.5	1.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	40	20.50	20.53	20.58		21.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	26	20.57	20.52	20.50		21.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	13	20.55	20.51	20.54		21.0	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	378000	379000			
Frequency (MHz)				1910	1927.5	1930			
40	PI2 BPSK	1	1	13.97	14.10	14.00		15.5	0.0
40	PI2 BPSK	1	108	13.99	14.02	13.92		15.5	0.0
40	PI2 BPSK	1	214	13.97	14.09	13.92		15.5	0.0
40	PI2 BPSK	108	0	13.94	14.06	14.01		15.5	0.0
40	PI2 BPSK	108	54	13.90	13.99	13.95		15.5	0.0
40	PI2 BPSK	108	108	13.90	14.02	13.95		15.5	0.0
40	PI2 BPSK	216	0	13.93	14.04	14.00		15.5	0.0
40	QPSK	1	1	14.03	14.20	14.07		15.5	0.0
40	QPSK	1	108	13.94	14.13	13.99		15.5	0.0
40	QPSK	1	214	13.91	14.13	13.87		15.5	0.0
40	QPSK	108	0	14.07	14.00	14.00		15.5	0.0
40	QPSK	108	54	13.94	14.09	13.94		15.5	0.0
40	QPSK	108	108	13.89	14.08	14.01		15.5	0.0
40	QPSK	216	0	13.97	14.03	13.92		15.5	0.0
40	16QAM	1	1	13.99	14.17	14.10		15.5	0.0
40	64QAM	1	1	13.98	13.98	13.85		15.5	0.0
40	256QAM	1	1	14.02	14.08	13.91		15.5	0.0
Channel				373500	378000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1900			
30	QPSK	1	1	13.98	14.12	14.13		15.5	0.0
Channel				373000	378000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	QPSK	1	1	13.96	14.08	14.08		15.5	0.0
Channel				372500	378000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1882.5	1895			
20	QPSK	1	1	14.03	14.06	14.07		15.5	0.0
Channel				371900	378000	381600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	1	14.09	14.19	14.02		15.5	0.0
Channel				371500	378000	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1882.5	1910			
10	QPSK	1	1	13.98	14.15	14.08		15.5	0.0
Channel				371000	378000	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	14.04	14.15	14.08		15.5	0.0

n66 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000	13.5	0.0
Frequency (MHz)				1230	1245	1260		
40	PI2 BPSK	1	1	123.8	124.2	124.8		
40	PI2 BPSK	1	108	12.28	12.31	12.23	13.5	0.0
40	PI2 BPSK	1	214	12.32	12.40	12.21		
40	PI2 BPSK	108	0	12.49	12.47	12.48		
40	PI2 BPSK	108	54	12.28	12.38	12.29	13.5	0.0
40	PI2 BPSK	108	108	12.27	12.27	12.31	13.5	0.0
40	PI2 BPSK	216	0	12.27	12.37	12.38		
40	QPSK	1	1	12.37	12.56	12.45		
40	QPSK	1	108	12.18	12.35	12.37	13.5	0.0
40	QPSK	1	214	12.39	12.32	12.25		
40	QPSK	108	0	12.33	12.37	12.32		
40	QPSK	108	54	12.28	12.45	12.41	13.5	0.0
40	QPSK	108	108	12.37	12.44	12.26	13.5	0.0
40	QPSK	216	0	12.24	12.25	12.21		
40	16QAM	1	1	12.29	12.51	12.24	13.5	0.0
40	64QAM	1	1	12.17	12.39	12.38	13.5	0.0
40	256QAM	1	1	12.21	12.42	12.27	13.5	0.0
Channel				345000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	13.5	0.0
30	QPSK	1	1	12.43	12.48	12.50		
Channel				348000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	13.5	0.0
20	QPSK	1	1	12.35	12.50	12.43		
Channel				345000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	13.5	0.0
15	QPSK	1	1	12.43	12.45	12.49		
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	13.5	0.0
10	QPSK	1	1	12.39	12.49	12.43		
Channel				342500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	13.5	0.0
5	QPSK	1	1	12.44	12.49	12.49		

n71 Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midst Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				136000	136100	137600	20.0	0.0
Frequency (MHz)				67.1	68.5	69.8		
20	PI2 BPSK	1	1	18.76	18.85	18.73		
20	PI2 BPSK	1	53	18.58	18.68	18.72	20.0	0.0
20	PI2 BPSK	1	104	18.67	18.69	18.82		
20	PI2 BPSK	50	0	18.77	18.85	18.79		
20	PI2 BPSK	50	26	18.55	18.72	18.57	20.0	0.0
20	PI2 BPSK	50	56	18.74	18.73	18.84	20.0	0.0
20	PI2 BPSK	100	0	18.57	18.72	18.62		
20	QPSK	1	1	18.81	18.92	18.80		
20	QPSK	1	53	18.66	18.65	18.57	20.0	0.0
20	QPSK	1	104	18.65	18.72	18.75		
20	QPSK	50	0	18.75	18.70	18.71		
20	QPSK	50	28	18.62	18.78	18.62	20.0	0.0
20	QPSK	50	56	18.66	18.73	18.71	20.0	0.0
20	QPSK	100	0	18.75	18.88	18.72		
20	16QAM	1	1	18.59	18.67	18.69	20.0	0.0
20	64QAM	1	1	18.69	18.69	18.75	20.0	0.0
20	256QAM	1	1	18.26	18.57	18.33	19.5	0.0
Channel				134100	136100	136100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5	20.0	0.0
15	QPSK	1	1	18.62	18.72	18.61		
Channel				136000	136100	136600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693	20.0	0.0
10	QPSK	1	1	18.55	18.65	18.62		
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				666.5	680.5	696.5	20.0	0.0
5	QPSK	1	1	18.54	18.63	18.66		



n41 HPUE 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				2541.01	2592.99	2640			
Frequency (MHz)				13.96	14.04	14.06			
100	PQ2 BPSK	1	1	13.96	14.04	14.06			
100	PQ2 BPSK	1	137	13.80	14.02	13.88	15.0	0.0	
100	PQ2 BPSK	1	271	14.01	14.00	14.01			
100	PQ2 BPSK	135	0	14.05	14.07	14.03	15.0	0.0	
100	PQ2 BPSK	135	69	13.92	14.07	13.83	15.0	0.0	
100	PQ2 BPSK	135	138	13.99	13.92	14.03			
100	PQ2 BPSK	270	0	13.94	14.01	13.80	15.0	0.0	
100	QPSK	1	1	13.87	14.10	14.00			
100	QPSK	1	137	13.96	14.04	13.93	15.0	0.0	
100	QPSK	1	271	14.04	14.03	14.03			
100	QPSK	135	0	13.93	14.04	14.05	15.0	0.0	
100	QPSK	135	69	13.86	14.06	13.85	15.0	0.0	
100	QPSK	135	138	14.05	14.02	13.90	15.0	0.0	
100	QPSK	270	0	13.87	13.95	13.85			
100	16QAM	1	1	14.01	14.08	13.99	15.0	0.0	
100	64QAM	1	1	13.85	13.97	13.87	15.0	0.0	
100	256QAM	1	1	14.06	14.00	13.89	15.0	0.0	
Channel				502500	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.06	14.02	13.96	15.0	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2638.99	2592.99	2644.99			
80	QPSK	1	1	14.00	14.05	14.03	15.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2704	2592.99	2639.98			
60	QPSK	1	1	13.94	14.04	14.03	15.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	13.91	14.07	14.04	15.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.02	14.01	14.02	15.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2592.99	2674.98			
30	QPSK	1	1	13.90	14.04	13.94	15.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	13.96	14.03	13.87	15.0	0.0	
Channel				500200	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	14.02	14.05	14.04	15.0	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.98	2685			
10	QPSK	1	1	13.99	14.05	14.03	15.0	0.0	

Par27Q n77 HPUE 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PQ2 BPSK	1	1	18.20	18.17	17.80			
100	PQ2 BPSK	1	137	18.17	17.90	17.78	19.0	0.0	
100	PQ2 BPSK	1	271	17.89	18.18	17.87			
100	PQ2 BPSK	135	0	17.86	18.19	17.83	19.0	0.0	
100	PQ2 BPSK	135	69	18.12	17.85	17.87	19.0	0.0	
100	PQ2 BPSK	135	138	17.89	18.14	17.85			
100	PQ2 BPSK	270	0	17.85	18.13	17.93	19.0	0.0	
100	QPSK	1	1	18.15	18.31	17.99			
100	QPSK	1	137	18.26	18.05	17.84	19.0	0.0	
100	QPSK	1	271	17.96	18.15	17.97			
100	QPSK	135	0	18.12	18.07	17.81	19.0	0.0	
100	QPSK	135	69	18.04	18.13	17.99	19.0	0.0	
100	QPSK	135	138	18.02	18.12	17.91	19.0	0.0	
100	QPSK	270	0	17.85	18.05	17.85			
100	16QAM	1	1	18.17	18.16	17.90	19.0	0.0	
100	64QAM	1	1	18.16	17.95	17.77	19.0	0.0	
100	256QAM	1	1	18.03	18.20	17.85	19.0	0.0	
Channel				655508	656000	656504	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.08	18.19	17.93	19.0	0.0	
Channel				649334	656000	662068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.01	3840	3940.02			
80	QPSK	1	1	18.07	18.25	17.93	19.0	0.0	
Channel				646000	656000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.10	18.14	18.02	19.0	0.0	
Channel				648608	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.06	18.15	17.87	19.0	0.0	
Channel				645334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	18.04	18.28	17.88	19.0	0.0	
Channel				644000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.14	18.20	18.00	19.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	18.05	18.29	17.84	19.0	0.0	
Channel				647000	656000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	18.16	18.20	17.98	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	18.13	18.26	17.85	19.0	0.0	
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.08	18.28	17.98	19.0	0.0	

Part27Q n77 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3000.01				
100	PQ2 BPSK	1	1		17.68				
100	PQ2 BPSK	1	137		17.78		19.0	0.0	
100	PQ2 BPSK	1	271		17.88				
100	PQ2 BPSK	135	0		17.85		19.0	0.0	
100	PQ2 BPSK	135	69		17.74		19.0	0.0	
100	PQ2 BPSK	135	138		17.74		19.0	0.0	
100	PQ2 BPSK	270	0		17.77				
100	QPSK	1	1		17.86				
100	QPSK	1	137		17.68		19.0	0.0	
100	QPSK	1	271		17.75				
100	QPSK	135	0		17.88		19.0	0.0	
100	QPSK	135	69		17.94		19.0	0.0	
100	QPSK	135	138		17.81		19.0	0.0	
100	QPSK	270	0		17.82				
100	16QAM	1	1		17.85		19.0	0.0	
100	64QAM	1	1		17.84		19.0	0.0	
100	256QAM	1	1		17.66		19.0	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3000.01	3505.02			
50	QPSK	1	1	17.65	17.83	17.75	19.0	0.0	
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.74	17.74	17.74	19.0	0.0	
Channel				633334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.60	17.78	17.76	19.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505.02			
60	QPSK	1	1	17.71	17.78	17.80	19.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505.02			
50	QPSK	1	1	17.63	17.80	17.80	19.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.65	17.83	17.73	19.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3000.01	3535.02			
30	QPSK	1	1	17.71	17.79	17.79	19.0	0.0	
Channel				630334	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.81	3500.01	3537.81			
25	QPSK	1	1	17.71	17.79	17.72	19.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.68	17.81	17.80	19.0	0.0	
Channel				630300	633334	636300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3000.01	3542.52			
15	QPSK	1	1	17.61	17.83	17.78	19.0	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	17.61	17.82	17.82	19.0	0.0	

Part270 n78 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	P1/2 BPSK	1	1		18.07		19.0	0.0	
100	P1/2 BPSK	1	137		18.01				
100	P1/2 BPSK	1	271		18.10				
100	P1/2 BPSK	135	0		18.06		19.0	0.0	
100	P1/2 BPSK	135	69		18.02		19.0	0.0	
100	P1/2 BPSK	135	138		17.90		19.0	0.0	
100	P1/2 BPSK	270	0		18.07		19.0	0.0	
100	QPSK	1	1		18.20		19.0	0.0	
100	QPSK	1	137		18.03				
100	QPSK	1	271		18.08				
100	QPSK	135	0		18.11		19.0	0.0	
100	QPSK	135	69		18.12		19.0	0.0	
100	QPSK	135	138		18.02		19.0	0.0	
100	QPSK	270	0		18.15		19.0	0.0	
100	16QAM	1	1		18.10		19.0	0.0	
100	64QAM	1	1		17.89		19.0	0.0	
100	256QAM	1	1		17.58		19.0	0.0	
Channel				640000	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		17.90	18.16	17.92	19.0	0.0
Channel				640334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		17.55	18.07	17.50	19.0	0.0
					17.86	18.00	17.83	19.0	0.0
Channel				640000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		17.55	18.07	17.50	19.0	0.0
Channel				640668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		17.95	18.01	17.81	19.0	0.0
Channel				640334	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		17.87	18.02	17.84	19.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		17.89	18.06	17.87	19.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1		17.85	18.08	17.84	19.0	0.0
Channel				647000	650000	652500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)	
25	QPSK	1	1		17.84	18.03	17.81	19.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		17.89	18.08	17.83	19.0	0.0
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		17.94	18.03	17.77	19.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		17.89	18.02	17.82	19.0	0.0

Part27Q 78 HPUE Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633334			
Frequency (MHz)						3500.01			
100	P1/2 BPSK	1	1		17.54		19.0	0.0	
100	P1/2 BPSK	1	137		17.51				
100	P1/2 BPSK	1	271		17.48				
100	P1/2 BPSK	135	0		17.85		19.0	0.0	
100	P1/2 BPSK	135	69		17.51		19.0	0.0	
100	P1/2 BPSK	135	138		17.47		19.0	0.0	
100	P1/2 BPSK	270	0		17.58		19.0	0.0	
100	QPSK	1	1		17.65		19.0	0.0	
100	QPSK	1	137		17.53				
100	QPSK	1	271		17.53				
100	QPSK	135	0		17.51		19.0	0.0	
100	QPSK	135	69		17.57		19.0	0.0	
100	QPSK	135	138		17.56		19.0	0.0	
100	QPSK	270	0		17.60		19.0	0.0	
100	16QAM	1	1		17.62		19.0	0.0	
100	64QAM	1	1		17.48		19.0	0.0	
100	256QAM	1	1		17.57		19.0	0.0	
Channel				633000	633334	633668	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1		17.46	17.60	17.36	19.0	0.0
Channel				630668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510.01	(dBm)	(dB)	
80	QPSK	1	1		17.43	17.59	17.40	19.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1		17.57	17.54	17.40	19.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1		17.45	17.61	17.38	19.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1		17.39	17.59	17.38	19.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3528.01	(dBm)	(dB)	
40	QPSK	1	1		17.36	17.61	17.32	19.0	0.0
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3536.02	(dBm)	(dB)	
30	QPSK	1	1		17.34	17.59	17.41	19.0	0.0
Channel				630668	633334	635834	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1		17.40	17.58	17.39	19.0	0.0
Channel				630334	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
20	QPSK	1	1		17.40	17.61	17.40	19.0	0.0
Channel				630500	633334	636168	Tune-up limit	MPR	
Frequency (MHz)				3452.5	3500.01	3543.52	(dBm)	(dB)	
15	QPSK	1	1		17.40	17.63	17.35	19.0	0.0
Channel				630334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1		17.41	17.59	17.43	19.0	0.0

n2 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				372000	376000	380000	18.5	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	17.06	17.17	17.10			
20	PI/2 BPSK	1	53	16.84	17.10	17.02	18.5	0.0	
20	PI/2 BPSK	1	104	16.91	17.11	17.07			
20	PI/2 BPSK	50	0	17.01	17.13	17.05			
20	PI/2 BPSK	50	28	16.91	17.02	16.97	18.5	0.0	
20	PI/2 BPSK	50	56	16.85	17.12	17.01			
20	PI/2 BPSK	100	0	16.93	17.01	16.95			
20	QPSK	1	1	16.97	17.30	17.07	18.5	0.0	
20	QPSK	1	53	16.84	17.06	16.92			
20	QPSK	1	104	16.95	17.11	17.06			
20	QPSK	50	0	16.97	17.06	17.04	18.5	0.0	
20	QPSK	50	28	16.85	17.17	17.02			
20	QPSK	50	56	16.90	17.07	17.04			
20	QPSK	100	0	16.85	17.03	16.95	18.5	0.0	
20	16QAM	1	1	16.96	17.15	17.08			
20	64QAM	1	1	16.88	17.10	16.94			
20	256QAM	1	1	16.94	17.17	17.06	18.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.90	17.09	16.96	18.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.92	17.08	17.02	18.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	16.83	17.10	16.94	18.5	0.0	
Channel									
Frequency (MHz)									

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	17.30	17.45	
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	12.69	12.90	12.80			
40	PI/2 BPSK	1	108	12.60	12.85	12.74	14.5	0.0	
40	PI/2 BPSK	1	214	12.71	12.88	12.79			
40	PI/2 BPSK	108	0	12.74	12.90	12.85			
40	PI/2 BPSK	108	54	12.70	12.80	12.79	14.5	0.0	
40	PI/2 BPSK	108	108	12.65	12.86	12.80			
40	PI/2 BPSK	216	0	12.63	12.87	12.79			
40	QPSK	1	1	12.69	12.95	12.89	14.5	0.0	
40	QPSK	1	108	12.65	12.80	12.73			
40	QPSK	1	214	12.73	12.92	12.71			
40	QPSK	108	0	12.71	12.89	12.82	14.5	0.0	
40	QPSK	108	54	12.66	12.91	12.77			
40	QPSK	108	108	12.71	12.83	12.71			
40	QPSK	216	0	12.69	12.92	12.77	14.5	0.0	
40	16QAM	1	1	12.75	12.90	12.86			
40	64QAM	1	1	12.63	12.86	12.71			
40	256QAM	1	1	12.65	12.89	12.72	14.5	0.0	
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	12.72	12.84	12.77	14.5	0.0	
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	12.66	12.87	12.82	14.5	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	12.69	12.85	12.73	14.5	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	12.64	12.90	12.79	14.5	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	12.72	12.90	12.75	14.5	0.0	
Channel									
Frequency (MHz)									



Par270 n77 HPUE 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				650000	650000	650000			
Frequency (MHz)				3750	3840	3930			
100	PV2 BPSK	1	1	19.07	19.07	18.76	20.0	0.0	
100	PV2 BPSK	1	137	18.80	18.96	18.86			
100	PV2 BPSK	1	271	18.80	19.00	18.88	20.0	0.0	
100	PV2 BPSK	135	0	18.99	18.85	18.88			
100	PV2 BPSK	135	69	18.79	19.00	18.85	20.0	0.0	
100	PV2 BPSK	135	138	18.89	19.03	18.92			
100	PV2 BPSK	270	0	18.95	19.08	19.04	20.0	0.0	
100	QPSK	1	1	18.98	19.19	18.89			
100	QPSK	1	137	18.83	19.05	18.91	20.0	0.0	
100	QPSK	1	271	18.76	19.05	19.00			
100	QPSK	135	0	19.04	18.96	19.09	20.0	0.0	
100	QPSK	135	69	18.85	19.22	19.10			
100	QPSK	135	138	18.92	19.11	18.91	20.0	0.0	
100	QPSK	270	0	18.91	19.04	18.94			
100	16QAM	1	1	19.04	19.10	18.81	20.0	0.0	
100	64QAM	1	1	18.93	18.89	19.02			
100	256QAM	1	1	19.93	19.04	18.93	20.0	0.0	
Channel				649698	650000	650234		Tune-up limit (dBm)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.98	19.07	18.87	20.0	0.0	
Channel				648334	650000	650668		Tune-up limit (dBm)	
Frequency (MHz)				3743.01	3840	3940.02			
80	QPSK	1	1	19.07	19.16	18.83	20.0	0.0	
Channel				648000	650000	650300		Tune-up limit (dBm)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	18.96	19.14	18.83	20.0	0.0	
Channel				647699	650000	650334		Tune-up limit (dBm)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.04	19.14	18.79	20.0	0.0	
Channel				648334	650000	650668		Tune-up limit (dBm)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.08	19.15	18.81	20.0	0.0	
Channel				648000	650000	650400		Tune-up limit (dBm)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.94	19.07	18.79	20.0	0.0	
Channel				647668	650000	650434		Tune-up limit (dBm)	
Frequency (MHz)				3715.01	3840	3965.01			
30	QPSK	1	1	19.02	19.21	18.79	20.0	0.0	
Channel				647500	650000	650400		Tune-up limit (dBm)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	19.07	19.20	18.90	20.0	0.0	
Channel				647334	650000	650668		Tune-up limit (dBm)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.05	19.18	18.81	20.0	0.0	
Channel				647168	650000	650834		Tune-up limit (dBm)	
Frequency (MHz)				3707.5	3840	3972.51			
15	QPSK	1	1	19.06	19.16	18.81	20.0	0.0	
Channel				647000	650000	650900		Tune-up limit (dBm)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	18.97	19.19	18.81	20.0	0.0	
Channel									

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334				
Frequency (MHz)				3500.01					
100	PV2 BPSK	1	1		18.81		20.0	0.0	
100	PV2 BPSK	1	137		18.58				
100	PV2 BPSK	1	271		18.77		20.0	0.0	
100	PV2 BPSK	135	0		18.57				
100	PV2 BPSK	135	69		18.48		20.0	0.0	
100	PV2 BPSK	135	138		18.50				
100	PV2 BPSK	270	0		18.60		20.0	0.0	
100	QPSK	1	1		18.81				
100	QPSK	1	137		18.73		20.0	0.0	
100	QPSK	1	271		18.65				
100	QPSK	135	0		18.62		20.0	0.0	
100	QPSK	135	69		18.79				
100	QPSK	135	138		18.55		20.0	0.0	
100	QPSK	270	0		18.57				
100	16QAM	1	1		18.47		20.0	0.0	
100	64QAM	1	1		18.52			20.0	
100	256QAM	1	1		19.48				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.72	18.77	18.56	20.0	0.0	
Channel				632668	633334	634000		Tune-up limit (dBm)	
Frequency (MHz)				3493.02	3500.01	3510			
80	QPSK	1	1	18.75	19.81	18.57	20.0	0.0	
Channel				632334	633334	634334		Tune-up limit (dBm)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.67	18.69	18.51	20.0	0.0	
Channel				632000	633334	634998		Tune-up limit (dBm)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.75	18.67	18.54	20.0	0.0	
Channel				631668	633334	635000		Tune-up limit (dBm)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.73	18.67	18.53	20.0	0.0	
Channel				631334	633334	635334		Tune-up limit (dBm)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.65	18.72	18.56	20.0	0.0	
Channel				631000	633334	635668		Tune-up limit (dBm)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.69	18.72	18.45	20.0	0.0	
Channel				630834	633334	635834		Tune-up limit (dBm)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	18.67	18.76	18.49	20.0	0.0	
Channel				630668	633334	636000		Tune-up limit (dBm)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.66	18.72	18.48	20.0	0.0	
Channel				630500	633334	636168		Tune-up limit (dBm)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.69	18.72	18.50	20.0	0.0	
Channel				630334	633334	636334		Tune-up limit (dBm)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.76	18.80	18.52	20.0	0.0	
Channel									

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PV2 BPSK	1	1		18.89		20.0	0.0	
100	PV2 BPSK	1	137		18.81				
100	PV2 BPSK	1	271		18.87		20.0	0.0	
100	PV2 BPSK	135	0		18.88				
100	PV2 BPSK	135	69		18.81		20.0	0.0	
100	PV2 BPSK	135	138		18.89				
100	PV2 BPSK	270	0		18.87		20.0	0.0	
100	QPSK	1	1		18.85				
100	QPSK	1	137		18.95		20.0	0.0	
100	QPSK	1	271		18.78				
100	QPSK	135	0		18.87		20.0	0.0	
100	QPSK	135	69		18.83				
100	QPSK	135	138		18.88		20.0	0.0	
100	QPSK	270	0		18.76				
100	16QAM	1	0		18.92		20.0	0.0	
100	64QAM	1	1		18.87				
100	256QAM	1	1		18.94		20.0	0.0	
Channel				648668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		19.02	18.90	18.75	20.0	0.0
Channel				648334	650000	650666			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		18.97	18.96	18.85	20.0	0.0
Channel				645000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		18.92	18.86	18.88	20.0	0.0
Channel				646668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		18.93	19.00	18.99	20.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		18.93	18.83	18.75	20.0	0.0
Channel				645000	650000	655000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		18.94	18.97	18.86	20.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1		19.04	18.87	18.76	20.0	0.0
Channel				647000	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		19.03	19.00	18.88	20.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		19.03	18.97	18.86	20.0	0.0
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		18.96	18.90	18.85	20.0	0.0
Channel				645100	650000	655100			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		19.01	18.89	18.80	20.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633334			20.0	0.0
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		18.61		20.0	0.0
100	PI/2 BPSK	1	137		18.64			
100	PI/2 BPSK	1	271		18.58		20.0	0.0
100	PI/2 BPSK	135	0		18.85			
100	PI/2 BPSK	135	69		18.80		20.0	0.0
100	PI/2 BPSK	135	138		18.82			
100	PI/2 BPSK	270	0		18.54		20.0	0.0
100	QPSK	1	1		18.75			
100	QPSK	1	137		18.57		20.0	0.0
100	QPSK	1	271		18.53			
100	QPSK	135	0		18.83		20.0	0.0
100	QPSK	135	69		18.87			
100	QPSK	135	138		18.49		20.0	0.0
100	QPSK	270	0		18.77			
100	16QAM	1	1		18.60		20.0	0.0
100	64QAM	1	1		18.65			
100	256QAM	1	1		18.59		20.0	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02	20.0	MPR (dB)
90	QPSK	1	1	18.55	18.65	18.61		
Channel				632668	633334	634000	20.0	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.46	18.63	18.66	20.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01	20.0	MPR (dB)
70	QPSK	1	1	18.45	18.67	18.53		
Channel				632000	633334	634668	20.0	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.48	18.66	18.53	20.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	20.0	MPR (dB)
50	QPSK	1	1	18.51	18.60	18.62		
Channel				631334	633334	635334	20.0	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.45	18.59	18.67	20.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	20.0	MPR (dB)
30	QPSK	1	1	18.47	18.58	18.61		
Channel				630668	633334	635934	20.0	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	18.48	18.54	18.66	20.0	0.0
Channel				630334	633334	636200		
Frequency (MHz)				3460.02	3500.01	3540	20.0	MPR (dB)
20	QPSK	1	1	18.47	18.62	18.61		
Channel				630000	633334	636468	20.0	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.5		
15	QPSK	1	1	18.54	18.62	18.61	20.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01	20.0	MPR (dB)
10	QPSK	1	1	18.51	18.62	18.63		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				509202	518598	528000	17.5	0.0			
Frequency (MHz)				2546.01	2592.99	2640					
100	PI/2 BPSK	1	1	16.39	17.04	16.59	17.5	0.0			
100	PI/2 BPSK	1	137	16.27	17.11	16.54					
100	PI/2 BPSK	1	271	16.31	17.06	16.63	17.5	0.0			
100	PI/2 BPSK	135	0	16.39	16.99	16.59					
100	PI/2 BPSK	135	69	16.29	17.04	16.50	17.5	0.0			
100	PI/2 BPSK	135	138	16.28	16.86	16.55					
100	PI/2 BPSK	270	0	16.33	17.10	16.52	17.5	0.0			
100	QPSK	1	1	16.35	17.14	16.56					
100	QPSK	1	137	16.29	16.95	16.53	17.5	0.0			
100	QPSK	1	271	16.25	17.02	16.56					
100	QPSK	135	0	16.35	16.97	16.58	17.5	0.0			
100	QPSK	135	69	16.26	17.08	16.58					
100	QPSK	135	138	16.31	17.06	16.59	17.5	0.0			
100	QPSK	270	0	16.39	16.96	16.61					
100	16QAM	1	1	16.28	16.98	16.61	17.5	0.0			
100	64QAM	1	1	16.34	17.00	16.58					
100	256QAM	1	1	16.37	17.06	16.57	17.5	0.0			
Channel				508200	518598	528996		Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98					
90	QPSK	1	1	16.39	17.05	16.57	17.5	0.0			
Channel				507204	518598	529998					
Frequency (MHz)				2536.02	2592.99	2649.99	17.5	0.0			
80	QPSK	1	1	16.49	17.07	16.55		MPR (dB)			
Channel				506202	518598	531000	Tune-up limit (dBm)				
Frequency (MHz)				2531.01	2592.99	2655					
70	QPSK	1	1	16.41	17.00	16.62	17.5	0.0			
Channel				505200	518598	531996					
Frequency (MHz)				2526	2592.99	2659.98	17.5	MPR (dB)			
60	QPSK	1	1	16.47	17.02	16.54					
Channel				504204	518598	532998	17.5	MPR (dB)			
Frequency (MHz)				2521.02	2592.99	2664.99					
50	QPSK	1	1	16.46	16.99	16.61	17.5	0.0			
Channel				503202	518598	534000					
Frequency (MHz)				2516.01	2592.99	2670	17.5	MPR (dB)			
40	QPSK	1	1	16.51	16.98	16.49					
Channel				502200	518598	534996	17.5	MPR (dB)			
Frequency (MHz)				2511	2592.99	2674.98					
30	QPSK	1	1	16.41	16.96	16.65	17.5	0.0			
Channel				501204	518598	535998					
Frequency (MHz)				2506.02	2592.99	2679.99	17.5	MPR (dB)			
20	QPSK	1	1	16.48	16.96	16.51					
Channel				500700	518598	536996	17.5	MPR (dB)			
Frequency (MHz)				2503.5	2592.99	2682.48					
15	QPSK	1	1	16.44	17.00	16.55	17.5	0.0			
Channel				500202	518598	537000					
Frequency (MHz)				2501.01	2592.99	2685	17.5	MPR (dB)			
10	QPSK	1	1	16.42	17.00	16.57					

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				462000			16.5	0.0
Frequency (MHz)				2310				
10	PI2 BPSK	1	1		15.32			
10	PI2 BPSK	1	26		15.41			
10	PI2 BPSK	1	50		15.46			
10	PI2 BPSK	25	0		15.47		16.5	0.0
10	PI2 BPSK	25	14		15.36		16.5	0.0
10	PI2 BPSK	25	27		15.33			
10	PI2 BPSK	50	0		15.30		16.5	0.0
10	QPSK	1	1		15.52			
10	QPSK	1	26		15.35		16.5	0.0
10	QPSK	1	50		15.42			
10	QPSK	25	0		15.36		16.5	0.0
10	QPSK	25	14		15.40		16.5	0.0
10	QPSK	25	27		15.29			
10	QPSK	50	0		15.28		16.5	0.0
10	16QAM	1	1		15.51		16.5	0.0
10	64QAM	1	1		15.30		16.5	0.0
10	256QAM	1	1		15.38		16.5	0.0
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	1	15.28	15.41	15.40	16.5	0.0

Full Power			
Mode	Channel	Frequency (MHz)	Average power (dBm)
Lora	1	904	27.05
	12	915	27.03
	23	926	26.87
Tune-up Limit			27.50

Receiver on			
Mode	Channel	Frequency (MHz)	Average power (dBm)
Lora	1	904	22.20
	12	915	21.58
	23	926	21.71
Tune-up Limit			22.50

Sensor on			
Mode	Channel	Frequency (MHz)	Average power (dBm)
Lora	1	904	23.86
	12	915	23.62
	23	926	23.48
Tune-up Limit			24.00

2.4GHz WLAN			Ant 3 Full Power			Ant 4 Full Power			Ant 3+4 Full Power		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %		
2.4GHz WLAN	802.11a 18Mbps	1	2412	11.30	13.00	12.77	14.00	10.12	16.50	100.00	
		6	2437	10.01	13.00	10.83	14.00	10.44	16.50		
		11	2462	11.58	13.00	12.40	14.00	10.62	16.50		
	802.11g 18Mbps	1	2412	8.79	10.00	10.41	11.00	12.60	13.50	99.45	
		6	2437	9.28	11.00	10.19	11.50	12.77	14.30		
		11	2462	9.00	10.50	10.17	11.50	12.81	14.00		
	802.11a-HT20 MCS0	1	2412	8.20	10.00	10.08	11.00	12.30	13.80	100.00	
		6	2437	8.79	10.00	9.74	11.00	12.30	13.50		
		11	2462	8.57	10.00	9.68	11.00	12.10	13.50		
	802.11a-HT40 MCS0	3	2422	4.62	8.00	5.12	9.00	10.00	11.80	100.00	
		9	2437	10.02	11.50	10.88	12.50	13.40	15.00		
		9	2452	7.23	8.50	8.04	10.00	10.60	12.30		
	802.11a-HE20 MCS0	1	2412	8.70	10.00	10.26	11.50	12.00	13.80	100.00	
		6	2437	9.15	10.00	10.00	11.00	12.80	14.00		
		11	2462	8.88	10.50	9.00	11.50	12.43	14.00		
	802.11a-HE40 MCS0	3	2422	6.68	8.50	7.37	9.00	10.14	11.80	100.00	
		9	2437	8.53	10.00	8.20	11.00	11.90	13.50		
		9	2452	7.25	8.50	6.97	9.50	10.80	12.00		

5.0GHz WLAN			Ant 3 Full Power			Ant 4 Full Power			Ant 3+4 Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %	
5.0GHz WLAN	802.11a 18Mbps	36	5180	9.60	11.50	8.66	8.00	11.40	13.1	98.97	
		40	5200	9.98	11.50	8.52	8.00	11.58	13.1		
		44	5220	10.38	12.00	8.82	8.50	11.95	13.6		
	802.11a-HT20 MCS0	36	5180	9.47	11.00	8.42	8.00	11.22	12.8	100.00	
		40	5200	9.71	11.00	8.37	8.00	11.33	12.8		
		44	5220	10.12	11.00	8.99	8.00	11.71	13.1		
	802.11a-HT40 MCS0	36	5180	10.23	11.50	8.88	8.50	11.80	13.3	100.00	
		40	5200	10.87	12.00	7.02	8.50	12.23	13.6		
		44	5220	9.53	11.00	6.44	8.00	11.30	12.8		
	802.11a-VHT20 MCS0	40	5200	8.75	11.50	6.31	8.00	11.37	13.1	100.00	
		44	5220	10.14	11.50	6.81	8.00	11.73	13.1		
		48	5240	10.25	11.50	6.92	8.50	11.91	13.3		
802.11a-VHT40 MCS0	36	5180	10.27	11.50	6.87	8.50	11.90	13.3	100.00		
	40	5200	10.72	12.00	7.05	8.50	12.27	13.6			
	42	5210	10.58	12.00	6.75	8.50	11.95	13.6			
802.11a-VHT80 MCS0	36	5180	9.59	11.00	6.48	8.00	11.32	12.8	100.00		
	40	5200	9.78	11.50	6.34	8.00	11.40	13.1			
	44	5220	10.17	11.50	6.63	8.00	11.78	13.1			
802.11a-HE20 MCS0	40	5200	10.28	11.50	6.80	8.00	11.54	13.3	100.00		
	44	5220	10.32	11.50	6.93	8.50	11.90	13.3			
	46	5230	10.77	12.00	7.11	8.50	12.52	13.6			
802.11a-HE80 MCS0	42	5210	10.47	12.00	6.79	8.50	12.02	13.6	100.00		

5.0GHz WLAN			Ant 3 Full Power			Ant 4 Full Power			Ant 3+4 Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %	
5.0GHz WLAN	802.11a 18Mbps	52	5280	10.53	12.00	7.30	8.00	12.22	13.8	98.97	
		56	5280	10.55	12.00	7.11	8.50	12.18	13.6		
		60	5300	10.57	12.00	7.07	8.50	12.10	13.8		
	802.11a-HT20 MCS0	54	5320	10.56	12.00	6.85	8.50	12.10	13.8	100	
		52	5280	10.32	12.00	6.97	8.50	11.97	13.8		
		56	5280	10.37	12.00	6.99	8.50	12.01	13.6		
	802.11a-HT40 MCS0	52	5280	10.30	12.00	6.83	8.50	11.91	13.8	100	
		56	5280	10.27	12.00	6.89	8.50	11.85	13.8		
		64	5320	10.75	12.50	7.35	9.00	12.38	14.1		
	802.11a-VHT20 MCS0	52	5280	10.33	12.00	7.01	8.50	11.94	13.8	100	
		56	5280	10.41	12.00	7.03	8.50	12.05	13.8		
		60	5300	10.37	12.00	6.87	8.50	11.97	13.6		
5.0GHz WLAN	802.11a-VHT40 MCS0	54	5320	10.50	12.00	6.71	8.00	11.80	13.5	100	
		56	5280	10.82	12.50	7.36	9.00	12.46	14.1		
		62	5310	10.87	12.50	7.35	9.00	12.47	14.1		
	802.11a-VHT80 MCS0	56	5290	10.61	12.00	6.97	8.50	12.17	13.6	100	
		58	5290	10.91	12.50	7.37	8	12.50	14.1		
		62	5290	10.37	12.00	7.00	8.50	12.02	13.8		
	802.11a-HE20 MCS0	56	5290	10.43	12.00	7.07	8.50	12.08	13.8	100	
		60	5300	10.41	12.00	6.91	8.50	12.01	13.6		
		64	5320	10.35	12.00	6.74	8.00	11.82	13.5		
	802.11a-HE40 MCS0	54	5270	10.38	12.50	7.47	9.00	12.51	14.1	100	
		62	5310	10.93	12.50	7.41	9.00	12.53	14.1		
		66	5330	10.69	12.00	7.02	8.50	12.34	13.6		
802.11a-HE80 MCS0	58	5290	10.98	12.50	7.45	8	12.50	14.1	100		

5.0GHz WLAN			Ant 3 Full Power			Ant 4 Full Power			Ant 3+4 Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %	
5.0GHz WLAN	802.11a 18Mbps	100	5800	11.16	12.50	5.71	7.00	12.25	13.6	98.97	
		118	5880	10.48	12.00	5.20	6.50	11.81	13.1		
		132	5880	10.18	11.50	4.47	6.00	11.22	12.6		
	802.11a-HT20 MCS0	140	5700	9.64	11.50	4.41	6.00	10.94	12.6	100.00	
		100	5800	10.72	12.00	5.59	7.00	11.88	13.2		
		118	5880	10.52	11.50	4.90	6.50	11.10	12.7		
	802.11a-HT40 MCS0	132	5880	9.73	11.00	4.23	5.50	10.81	12.1	100.00	
		140	5700	9.64	11.00	4.17	5.50	10.73	12.1		
		102	5810	11.10	12.50	5.86	7.00	12.38	13.7		
	802.11a-VHT20 MCS0	100	5800	10.79	12.50	5.71	7.00	12.09	13.6	100.00	
		118	5880	10.79	12.50	5.62	7.00	11.91	13.6		
		132	5880	10.07	11.50	4.95	6.50	11.23	12.7		
802.11a-VHT40 MCS0	100	5800	9.78	11.50	4.28	6.00	10.86	12.8	100.00		
	140	5700	9.67	11.00	4.20	6.00	10.75	12.2			
	102	5810	11.12	12.50	6.00	7.00	12.30	13.7			
802.11a-VHT80 MCS0	110	5850	10.99	12.50	5.74	7.00	12.12	13.6	100.00		
	124	5870	10.33	12.00	4.94	6.50	11.43	13.1			
	108	5830	10.76	12.00	5.31	7.00	11.80	13.2			
802.11a-HE20 MCS0	100	5800	10.76	12.50	5.65	7.00	11.94	13.6	100.00		
	116	5860	10.12	11.50	5.00	6.50	11.20	12.7			
	132	5880	9.63	11.50	4.33	6.00	10.91	12.6			
802.11a-HE40 MCS0	140	5700	9.70	11.00	4.23	6.00	10.70	12.2	100.00		
	102	5810	11.18	12.50	6.04	7.00	12.34	13.7			
	110	5850	11.02	12.50	5.77	7.00	12.15	13.7			
802.11a-HE80 MCS0	124	5870	10.38	12.00	4.99	6.50	11.46	13.1	100.00		
802.11a-HE90 MCS0	106	5830	10.74	12.00	5.34	7.00	11.94	13.2	100.00		

5.0GHz WLAN			Ant 3 Full Power			Ant 4 Full Power			Ant 3+4 Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %	
5.0GHz WLAN	802.11a 18Mbps	140	5745	13.98	15.50	9.37	11.00	15.20	16.80	98.97	
		157	5785	14.20	15.50	9.55	11.00	15.40	16.80		
		165	5825	13.92	15.50	9.60	11.00	15.20	16.80		
	802.11a-HT20 MCS0	140	5745	13.98	15.00	9.22	11.00	14.94	16.50	100.00	
		157	5785	13.93	15.50	9.27	11.00	15.21	16.80		
		165	5825	13.58	15.50	9.34	11.00	14.97	16.50		
	802.11a-HT40 MCS0	151	5795	14.18	15.50	9.55	11.00	15.47	16.80	100.00	
		159	5795	13.88	15.50	9.62	11.00	15.26	16.80		
5.0GHz WLAN	802.11a-VHT20 MCS0	140	5745	13.85	15.50	9.24	11.00	14.99	16.50	100.00	
		157	5785	13.55	15.50	9.36	11.00	15.25	16.80		
		165	5825	13.50	15.50	9.44	11.00	15.00	16.50		
	802.11a-VHT40 MCS0	151	5795	14.21	15.50	9.68	11.00	15.50	16.80	100.00	
		159	5795	13.96	15.50	9.70	11.00	15.34	16.80		
		165	5825	13.97	15.50	9.28	11.00	15.15	16.50		
	802.11a-VHT80 MCS0	155	5775	14.09	15.50	9.28	11.00	15.35	16.80	100.00	
		149	5745	13.92	15.50	9.28	11.00	15.15	16.50		
5.0GHz WLAN	802.11a-EHT20 MCS0	157	5785	13.97	15.50	9.45	11.00	15.28	16.80	100.00	
		165	5825	13.78	15.50	9.52	11.00	15.15	16.50		
		151	5795	14.24	15.50	9.81	11.00	15.53	16.80		
	802.11a-EHT40 MCS0	151	5795	14.24	15.50	9.78	11.00	15.42	16.80	100.00	
		159	5795	14.14	15.50	9.79	11.00	15.42	16.80		
		155	5775	14.18	15.50	9.37	11.00	15.35	16.80		

WLAN TX BF Power

2.4GHz WLAN				Art 3	Art 4	Art 3+4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
	802.11n-HT20 MCS0	1	2412	7.00	8.00	10.50
		6	2437	7.00	8.00	10.50
		11	2462	7.00	8.00	10.50
	802.11n-HT40 MCS0	3	2422	6.00	6.00	10.30
		6	2437	6.50	8.00	10.30
		9	2452	5.50	6.00	10.30
	802.11ax-HE20 MCS0	1	2412	7.00	8.00	10.50
		6	2437	7.00	8.00	10.50
		11	2462	7.00	8.00	10.50
	802.11ax-HE40 MCS0	3	2422	5.00	6.00	8.50
		6	2437	6.50	8.00	10.30
		9	2452	5.50	6.00	8.80

5.2GHz WLAN				Art 3	Art 4	Art 3+4
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
	802.11n-HT20 MCS0	36	5180	7.50	5.00	9.40
		44	5220	8.50	5.00	10.10
		48	5240	8.50	5.00	10.10
	802.11n-HT40 MCS0	38	5190	8.50	5.00	10.10
		46	5230	9.00	5.00	10.50
		36	5180	7.50	5.00	9.40
	802.11ac-VHT20 MCS0	44	5220	8.50	5.00	10.10
		48	5240	8.50	5.00	10.10
		38	5190	8.50	5.00	10.10
	802.11ac-VHT40 MCS0	46	5230	9.00	5.00	10.50
		42	5210	9.00	5.00	10.50
		36	5180	8.00	5.00	10.50
	802.11ax-HE20 MCS0	44	5220	9.00	5.00	10.50
		48	5240	9.00	5.00	10.50
		38	5190	9.00	5.00	10.50
	802.11ax-HE40 MCS0	46	5230	9.00	5.00	10.50
		42	5210	9.00	5.00	10.50

5.3GHz WLAN				Art 3	Art 4	Art 3+4
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
	802.11n-HT20 MCS0	52	5260	9.00	6.00	10.80
		56	5280	9.00	6.00	10.80
		60	5300	9.00	6.00	10.80
		64	5320	9.00	5.00	10.50
	802.11n-HT40 MCS0	54	5270	9.00	6.00	10.80
		62	5310	9.00	6.00	10.80
		52	5260	9.00	6.00	10.80
		56	5280	9.00	6.00	10.80
	802.11ac-VHT20 MCS0	60	5300	9.00	6.00	10.80
		64	5320	9.00	5.00	10.50
		54	5270	9.00	6.00	10.80
		62	5310	9.00	6.00	10.80
	802.11ac-VHT40 MCS0	58	5290	9.00	6.00	10.80
		50	5250	9.00	6.00	10.80
		52	5260	9.00	6.00	10.80
		56	5280	9.00	6.00	10.80
	802.11ax-HE20 MCS0	60	5300	9.00	6.00	10.80
		64	5320	9.00	5.00	10.50
		54	5270	9.00	6.00	10.80
		62	5310	9.00	6.00	10.80
	802.11ax-HE40 MCS0	58	5290	9.00	6.00	10.80
		50	5250	9.00	6.00	10.80
		52	5260	9.00	6.00	10.80
		56	5280	9.00	6.00	10.80

5.5GHz WLAN				Art 3	Art 4	Art 3+4
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
	802.11a 6Mbps	100	5500	9.00	4.00	10.20
		116	5580	9.00	4.00	10.20
		140	5700	9.00	3.00	10.00
		144	5720	8.00	3.00	9.20
	802.11n-HT20 MCS0	100	5500	9.00	4.00	10.20
		116	5580	9.00	4.00	10.20
		140	5700	8.00	3.00	9.20
		144	5720	8.00	3.00	9.20
	802.11n-HT40 MCS0	102	5510	9.00	4.00	10.20
		110	5550	9.00	4.00	10.20
		134	5670	9.00	4.00	10.20
		142	5710	9.00	3.00	10.00
	802.11ac-VHT20 MCS0	100	5500	9.00	4.00	10.20
		116	5580	9.00	4.00	10.20
		140	5700	8.00	3.00	9.20
		144	5720	8.00	3.00	9.20
	802.11ac-VHT40 MCS0	102	5510	9.00	4.00	10.20
		110	5550	9.00	4.00	10.20
		134	5670	9.00	4.00	10.20
		142	5710	9.00	4.00	10.20
	802.11ac-VHT80 MCS0	106	5530	9.00	4.00	10.20
		122	5610	9.00	4.00	10.20
		138	5690	9.00	3.00	10.00
		114	5570	9.00	4.00	10.20
	802.11ax-HE20 MCS0	100	5500	9.00	4.00	10.20
		116	5580	9.00	4.00	10.20
		140	5700	8.00	3.00	9.20
		144	5720	8.00	3.00	9.20
	802.11ax-HE40 MCS0	102	5510	9.00	4.00	10.20
		110	5550	9.00	4.00	10.20
		134	5670	9.00	4.00	10.20
		142	5710	9.00	4.00	10.20
	802.11ax-HE80 MCS0	106	5530	9.00	4.00	10.20
		122	5610	9.00	4.00	10.20
		138	5690	9.00	3.00	10.00
		114	5570	9.00	4.00	10.20

5.8GHz WLAN				Art 3	Art 4	Art 3+4
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
	802.11n-HT20 MCS0	149	5745	12.00	8.00	13.50
		157	5785	12.00	8.00	13.50
		165	5825	12.00	8.00	13.50
	802.11n-HT40 MCS0	151	5755	12.00	8.00	13.50
		159	5795	12.00	8.00	13.50
		149	5745	12.00	8.00	13.50
	802.11ac-VHT20 MCS0	157	5785	12.00	8.00	13.50
		165	5825	12.00	8.00	13.50
		151	5755	12.00	8.00	13.50
	802.11ac-VHT40 MCS0	159	5795	12.00	8.00	13.50
		155	5775	12.00	8.00	13.50
		149	5745	12.00	8.00	13.50
	802.11ax-HE20 MCS0	157	5785	12.00	8.00	13.50
		165	5825	12.00	8.00	13.50
		151	5755	12.00	8.00	13.50
	802.11ax-HE40 MCS0	159	5795	12.00	8.00	13.50
		155	5775	12.00	8.00	13.50

BT BR/EDR		ANT3			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.60	6.05	6.05
	CH 39	2441	6.38	4.93	4.78
	CH 78	2480	6.65	4.91	5.13
Tune-up Limit			8	6.5	6.5

BLE_1M		ANT3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	
LE	CH 00	2402	7.39	
	CH 19	2440	6.43	
	CH 39	2480	6.11	
Tune-up Limit			8	

BLE_2M		ANT3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	
LE	CH 00	2402	7.18	
	CH 19	2440	6.10	
	CH 39	2480	6.41	
Tune-up Limit			8.00	

BT BR/EDR		ANT4			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.34	6.00	6.02
	CH 39	2441	6.94	5.19	5.19
	CH 78	2480	6.71	5.15	5.32
Tune-up Limit			8	6.5	6.5

BLE_1M		ANT4		
Mode	Channel	Frequency (MHz)	Average power (dBm)	
LE	CH 00	2402	7.44	
	CH 19	2440	6.62	
	CH 39	2480	6.33	
Tune-up Limit			8	

BLE_2M		ANT4		
Mode	Channel	Frequency (MHz)	Average power (dBm)	
LE	CH 00	2402	7.40	
	CH 19	2440	6.59	
	CH 39	2480	6.31	
Tune-up Limit			8.00	