



### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.62	23.62	23.62		
100	PI2 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	PI2 BPSK	1	271	23.84	23.84	23.84		
100	PI2 BPSK	135	0	23.36	23.36	23.36	25.0	0.0
100	PI2 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	PI2 BPSK	135	138	23.48	23.48	23.48	25.0	0.0
100	PI2 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.62	23.62	23.62	25.0	0.0
100	QPSK	1	137	23.34	23.34	23.34		
100	QPSK	1	271	23.84	23.84	23.84		
100	QPSK	135	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	135	69	23.45	23.45	23.45	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44	25.0	0.0
100	QPSK	270	0	23.28	23.28	23.28	25.0	0.0
100	16QAM	1	1	23.34	23.34	23.34	25.0	0.0
100	16QAM	1	1	23.93	23.93	23.93	25.0	0.0
100	16QAM	1	1	23.29	23.29	23.29	25.0	0.0
Channel								
Frequency (MHz)								
63900	QPSK	1	1	63966	63966	63966	Tune-up limit (dB)	MPR
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.30	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.39	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.38	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.42	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.48	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.82	23.84	23.82		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.85	23.77		
100	PI2 BPSK	135	0	23.85	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.89	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.79	23.88	23.79	25.0	0.0
100	PI2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12	25.0	0.0
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.88	23.88		
100	QPSK	135	0	23.70	23.84	23.82	25.0	0.0
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81	25.0	0.0
100	QPSK	270	0	23.68	23.82	23.80	25.0	0.0
100	16QAM	1	1	23.80	23.85	23.80	25.0	0.0
100	16QAM	1	1	23.70	23.85	23.70	25.0	0.0
100	16QAM	1	1	23.69	22.77	22.70	23.0	0.0
Channel								
Frequency (MHz)								
64900	QPSK	1	1	64966	64966	64966	Tune-up limit (dB)	MPR
90	QPSK	1	1	23.71	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.06	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.75	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.71	24.01	23.98	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.71	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.72	24.06	24.01	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	24.00	24.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.06	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.70	24.02	23.96	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.52	23.52	23.52		
100	PI2 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	PI2 BPSK	1	271	23.84	23.84	23.84		
100	PI2 BPSK	135	0	23.36	23.36	23.36	25.0	0.0
100	PI2 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	PI2 BPSK	135	138	23.48	23.48	23.48	25.0	0.0
100	PI2 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.62	23.62	23.62	25.0	0.0
100	QPSK	1	137	23.34	23.34	23.34		
100	QPSK	1	271	23.84	23.84	23.84		
100	QPSK	135	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	135	69	23.45	23.45	23.45	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44	25.0	0.0
100	QPSK	270	0	23.28	23.28	23.28	25.0	0.0
100	16QAM	1	1	23.34	23.34	23.34	25.0	0.0
100	16QAM	1	1	23.93	23.93	23.93	25.0	0.0
100	16QAM	1	1	23.29	23.29	23.29	25.0	0.0
Channel								
Frequency (MHz)								
63900	QPSK	1	1	63966	63966	63966	Tune-up limit (dB)	MPR
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.30	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.39	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.38	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.42	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.48	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



### Par270 n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3790	3820	3850		
100	PI2 BPSK	1	1	23.20	23.34	23.52		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.83	23.77		
100	PI2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	23.86	23.76		
100	PI2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.96	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.65	23.82	23.86	25.0	0.0
100	16QAM	1	1	23.80	23.80	23.80	25.0	0.0
100	16QAM	1	1	23.75	23.86	23.73	25.0	0.0
100	256QAM	1	1	22.63	22.77	22.70	23.0	0.0
Channel								
Frequency (MHz)				64968	65900	66832	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	3169.9	36	368.96		
Channel								
Frequency (MHz)				64934	65900	66866	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)				64900	65900	66900	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	23.76	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)				3730.02	3640	3648.98	(dB)	(dB)
60	QPSK	1	1	23.71	23.72	23.18	21.0	0.0
Channel								
Frequency (MHz)				3725.01	3602	3604.99	(dB)	(dB)
50	QPSK	1	1	23.81	23.88	24.10	23.0	0.0
Channel								
Frequency (MHz)				64900	65900	66900	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	23.72	24.02	24.07	23.0	0.0
Channel								
Frequency (MHz)				647068	65600	66432	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	23.79	24.06	24.01	25.0	0.0
Channel								
Frequency (MHz)				647900	65900	66800	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	23.75	23.99	24.00	25.0	0.0
Channel								
Frequency (MHz)				647334	65900	66466	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)				647186	65000	65800	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	23.76	24.02	23.96	25.0	0.0
Channel								
Frequency (MHz)				3705	3640	3615	(dB)	(dB)
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				349.96		63332		
100	PI2 BPSK	1	1	22.55				
100	PI2 BPSK	1	137	23.45			25.0	0.0
100	PI2 BPSK	1	271	23.84				
100	PI2 BPSK	135	0	23.36			25.0	0.0
100	PI2 BPSK	135	69	23.47			25.0	0.0
100	PI2 BPSK	135	138	23.46				
100	PI2 BPSK	270	0	23.47			25.0	0.0
100	QPSK	1	1	23.85				
100	QPSK	1	137	23.34			25.0	0.0
100	QPSK	1	271	23.84				
100	QPSK	135	0	23.47				
100	QPSK	135	69	23.48			25.0	0.0
100	QPSK	135	138	23.44				
100	QPSK	270	0	23.36			25.0	0.0
100	16QAM	1	1	23.34			25.0	0.0
100	16QAM	1	1	23.53			25.0	0.0
100	256QAM	1	1	22.92			23.0	0.0
Channel								
Frequency (MHz)				63000	63332	63666	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	23.52	23.45	23.37	25.0	0.0
Channel								
Frequency (MHz)				63068	63332	63600	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)				63234	63332	63432	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)				3480	3490.98	3491.98	(dB)	(dB)
60	QPSK	1	1	23.39	23.34	23.51	21.0	0.0
Channel								
Frequency (MHz)				63068	63332	63600	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	23.38	23.24	23.51	23.0	0.0
Channel								
Frequency (MHz)				630.01	349.98	349.98	(dB)	(dB)
40	QPSK	1	1	23.46	23.31	23.47	23.0	0.0
Channel								
Frequency (MHz)				63000	63332	63666	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	23.43	23.35	23.48	25.0	0.0
Channel								
Frequency (MHz)				63634	63332	63832	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)				63068	63332	63600	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)				63000	63332	63666	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)				3495.01	3490.98	3494.98	(dB)	(dB)
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



ENDC Mode\_State 6

Band 2_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Power Avg Ch./Freq.	Turnup time (dBm)	MPR (dB)	
20	QPSK	1	0	23.41	23.48	23.48	23.48	25	0	
20	QPSK	1	49	23.49	23.50	23.49	23.49	25	0	
20	QPSK	1	99	23.51	23.52	23.51	23.51	25	0	
20	QPSK	50	0	22.49	22.50	22.50	22.50	24	1	
20	QPSK	50	24	22.53	22.56	22.52	22.52	24	1	
20	QPSK	50	49	22.57	22.58	22.57	22.57	24	1	
20	QPSK	100	0	22.29	22.30	22.29	22.29	24	1	
20	16QAM	1	0	22.83	22.83	22.86	22.86	24	1	
20	16QAM	1	49	22.72	22.80	22.79	22.79	24	1	
20	16QAM	1	99	22.66	22.63	22.61	22.61	24	1	
20	16QAM	50	0	21.47	21.58	21.53	21.53	23	2	
20	16QAM	50	24	21.61	21.66	21.58	21.58	23	2	
20	16QAM	50	49	21.47	21.58	21.54	21.54	23	2	
20	16QAM	100	0	21.52	21.64	21.49	21.49	23	2	
20	64QAM	1	0	21.70	21.76	21.76	21.76	23	2	
20	64QAM	1	49	21.71	21.76	21.76	21.76	23	2	
20	64QAM	1	99	21.58	21.66	21.62	21.62	23	2	
20	64QAM	50	0	20.51	20.58	20.54	20.54	22	3	
20	64QAM	50	24	20.55	20.60	20.56	20.56	22	3	
20	64QAM	50	49	20.48	20.57	20.56	20.56	22	3	
20	256QAM	1	0	18.50	18.50	18.48	18.48	20	5	
20	256QAM	1	49	18.74	18.76	18.71	18.71	20	5	
20	256QAM	1	99	18.58	18.57	18.53	18.53	20	5	
20	256QAM	50	0	18.45	18.52	18.48	18.48	20	5	
20	256QAM	50	24	18.50	18.52	18.49	18.49	20	5	
20	256QAM	50	49	18.52	18.53	18.48	18.48	20	5	
20	256QAM	100	0	18.43	18.43	18.47	18.47	20	5	

Band 2_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Power Avg Ch./Freq.	Turnup time (dBm)	MPR (dB)	
20	QPSK	1	0	15.97	16.06	16.03	16.03	17.5	0	
20	QPSK	1	49	16.13	16.16	16.08	16.08	17.5	0	
20	QPSK	1	99	16.28	16.38	16.30	16.30	17.5	0	
20	QPSK	50	0	14.99	15.01	15.03	15.03	16.5	1	
20	QPSK	50	24	15.10	15.16	15.08	15.08	16.5	1	
20	QPSK	50	49	15.16	15.21	15.20	15.20	16.5	1	
20	QPSK	100	0	15.08	15.13	15.05	15.05	16.5	1	
20	16QAM	1	0	15.44	15.39	15.43	15.43	16.5	1	
20	16QAM	1	49	15.16	15.45	15.29	15.29	16.5	1	
20	16QAM	1	99	15.27	15.24	15.25	15.25	16.5	1	
20	16QAM	50	0	14.07	14.21	14.16	14.16	15.5	2	
20	16QAM	50	24	14.14	14.26	14.16	14.16	15.5	2	
20	16QAM	50	49	14.25	14.43	14.25	14.25	15.5	2	
20	64QAM	1	0	14.31	14.33	14.34	14.34	15.5	2	
20	64QAM	1	49	14.25	14.43	14.25	14.25	15.5	2	
20	64QAM	1	99	14.15	14.22	14.20	14.20	15.5	2	
20	64QAM	50	0	13.16	13.22	13.10	13.10	14.5	3	
20	64QAM	50	24	13.16	13.16	13.12	13.12	14.5	3	
20	64QAM	50	49	13.10	13.19	13.14	13.14	14.5	3	
20	256QAM	1	0	11.07	11.07	11.09	11.09	12.5	5	
20	256QAM	1	49	11.29	11.31	11.28	11.28	12.5	5	
20	256QAM	1	99	11.10	11.14	11.09	11.09	12.5	5	
20	256QAM	50	0	11.06	11.09	11.06	11.06	12.5	5	
20	256QAM	50	24	11.10	11.07	11.03	11.03	12.5	5	
20	256QAM	50	49	11.16	11.10	11.06	11.06	12.5	5	
20	256QAM	100	0	11.05	11.08	11.07	11.07	12.5	5	

Band 2_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Power Avg Ch./Freq.	Turnup time (dBm)	MPR (dB)	
20	QPSK	1	0	19.50	19.50	19.44	19.44	21	0	
20	QPSK	1	49	19.56	19.54	19.56	19.56	21	0	
20	QPSK	1	99	19.48	19.51	19.48	19.48	21	0	
20	QPSK	50	0	18.54	18.48	18.46	18.46	20	1	
20	QPSK	50	24	18.56	18.58	18.54	18.54	20	1	
20	QPSK	50	49	18.50	18.52	18.45	18.45	20	1	
20	16QAM	1	0	18.83	18.77	18.58	18.58	20	1	
20	16QAM	1	49	18.71	18.76	18.62	18.62	20	1	
20	16QAM	1	99	18.45	18.66	18.69	18.69	20	1	
20	16QAM	50	0	17.36	17.48	17.52	17.52	19	2	
20	16QAM	50	24	17.40	17.47	17.52	17.52	19	2	
20	16QAM	50	49	17.29	17.48	17.55	17.55	19	2	
20	16QAM	100	0	17.47	17.49	17.52	17.52	19	2	
20	64QAM	1	0	17.70	17.70	17.72	17.72	19	2	
20	64QAM	1	49	17.69	17.72	17.70	17.70	19	2	
20	64QAM	1	99	17.57	17.55	17.59	17.59	19	2	
20	64QAM	50	0	16.42	16.36	16.42	16.42	18	3	
20	64QAM	50	24	16.50	16.52	16.46	16.46	18	3	
20	64QAM	50	49	16.37	16.46	16.45	16.45	18	3	
20	256QAM	1	0	14.37	14.44	14.38	14.38	16	5	
20	256QAM	1	49	14.40	14.40	14.35	14.35	16	5	
20	256QAM	1	99	14.37	14.37	14.38	14.38	16	5	
20	256QAM	50	0	14.36	14.44	14.43	14.43	16	5	
20	256QAM	50	24	14.41	14.44	14.43	14.43	16	5	











n2_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			1860	1880	1900				
20	Pi2 BPSK	1	1	23.92	23.92	23.92	25.0	0.0		
20	Pi2 BPSK	1	53	23.80	23.88	23.73	25.0	0.0		
20	Pi2 BPSK	1	104	23.72	23.86	23.72	25.0	0.0		
20	Pi2 BPSK	50	0	23.92	23.91	23.92	24.5	0.5		
20	Pi2 BPSK	50	28	23.72	23.82	23.88	25.0	0.0		
20	Pi2 BPSK	50	56	23.72	23.78	23.73	24.5	0.5		
20	Pi2 BPSK	100	0	23.72	23.30	23.15	24.5	0.5		
20	QPSK	1	1	23.92	23.92	23.92				
20	QPSK	1	53	23.78	23.94	23.80	25.0	0.0		
20	QPSK	1	104	23.85	23.96	23.91				
20	QPSK	50	0	22.96	23.96	23.92	24.0	1.0		
20	QPSK	50	28	23.80	23.88	23.91	25.0	0.0		
20	QPSK	50	56	23.60	23.72	23.68	24.0	1.0		
20	QPSK	100	0	22.96	23.96	22.90	24.0	1.0		
20	16QAM	1	1	22.72	22.92	22.83	24.0	1.0		
20	16QAM	1	1	21.48	21.56	21.48	22.5	2.5		
20	256QAM	1	1	18.48	18.53	18.44	20.5	4.5		
Channel										
	Frequency (MHz)			1867.5	1880	1902.5				
15	QPSK	1	1	23.80	23.91	23.85	25.0	0.0		
Channel										
	Frequency (MHz)			1860	1880	1900				
10	QPSK	1	1	23.88	23.89	23.89	25.0	0.0		
Channel										
	Frequency (MHz)			17650	17600	18150				
5	QPSK	1	1	23.15	23.27	23.14	23.0	0.0		

n2_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			17600	17600	17600				
20	Pi2 BPSK	1	1	16.42	16.40	16.35				
20	Pi2 BPSK	1	53	16.37	16.42	16.38	17.5	0.0		
20	Pi2 BPSK	1	104	16.33	16.30	16.34				
20	Pi2 BPSK	50	0	16.41	16.45	16.30	17.8	0.0		
20	Pi2 BPSK	50	28	16.41	16.47	16.33	17.5	0.0		
20	Pi2 BPSK	50	56	16.32	16.39	16.39				
20	Pi2 BPSK	100	0	16.40	16.41	16.31	17.5	0.0		
20	QPSK	1	1	16.48	16.53	16.45				
20	QPSK	1	53	16.32	16.45	16.30	17.5	0.0		
20	QPSK	1	104	16.43	16.41	16.32				
20	QPSK	50	0	16.41	16.48	16.38	17.5	0.0		
20	QPSK	50	28	16.45	16.50	16.43	17.5	0.0		
20	QPSK	50	56	16.31	16.27	16.40				
20	QPSK	100	0	16.44	16.48	16.43	17.5	0.0		
20	16QAM	1	1	16.34	16.44	16.35	17.5	0.0		
20	16QAM	1	1	16.38	16.38	16.35	17.5	0.0		
20	256QAM	1	1	16.38	16.39	16.31	17.5	0.0		
Channel										
	Frequency (MHz)			17600	17600	17600				
15	QPSK	1	1	16.38	16.44	16.38	17.5	0.0		
Channel										
	Frequency (MHz)			17600	17600	17600				
10	QPSK	1	1	16.50	16.49	16.37	17.5	0.0		
Channel										
	Frequency (MHz)			17650	17600	18100				
5	QPSK	1	1	16.40	16.41	16.38	17.5	0.0		

n2_Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			17600	17600	17600				
20	Pi2 BPSK	1	1	21.24	21.28	21.33				
20	Pi2 BPSK	1	53	21.32	21.41	21.34	23.0	0.0		
20	Pi2 BPSK	1	104	21.07	21.50	21.38				
20	Pi2 BPSK	50	0	21.33	21.38	21.37	23.0	0.0		
20	Pi2 BPSK	50	28	21.36	21.40	21.27	23.0	0.0		
20	Pi2 BPSK	50	56	21.42	21.42	21.31	23.0	0.0		
20	Pi2 BPSK	100	0	21.29	21.38	21.20	23.0	0.0		
20	QPSK	1	1	21.42	21.40	21.41				
20	QPSK	1	53	21.38	21.40	21.27	23.0	0.0		
20	QPSK	1	104	21.30	21.32	21.33				
20	QPSK	50	0	21.32	21.41	21.32	22.0	1.0		
20	QPSK	50	28	21.43	21.45	21.41	23.0	0.0		
20	QPSK	50	56	21.50	21.52	21.36	22.0	1.0		
20	QPSK	100	0	21.40	21.42	21.38	22.0	1.0		
20	16QAM	1	1	21.35	21.42	21.35	23.0	0.0		
20	16QAM	1	1	20.17	20.32	20.18	20.0	1.0		
20	256QAM	1	1	18.28	18.33	18.22	20.0	3.0		
Channel										
	Frequency (MHz)			17600	17600	17600				
15	QPSK	1	1	21.38	21.37	21.31	23.0	0.0		
Channel										
	Frequency (MHz)			17600	17600	17600				
10	QPSK	1	1	21.51	21.43	21.33	23.0	0.0		
Channel										
	Frequency (MHz)			17650	17600	18100				
5	QPSK	1	1	21.12	21.43	21.30	23.0	0.0		





n5_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Middle Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit [dBm]	MPR [dB]
Channel								
Frequency [MHz]				166600	167500	167900		
20	PV2 BPSK	1	1	166	169.5	170		
20	PV2 BPSK	1	53	24.5	24.5	24.5	20.0	0.0
20	PV2 BPSK	1	104	24.5	24.7	24.5		
20	PV2 BPSK	50	0	23.98	24.08	23.92	25.5	0.5
20	PV2 BPSK	50	28	24.47	24.58	24.52	20.0	0.0
20	PV2 BPSK	100	0	23.92	24.02	23.98	25.5	0.5
20	QPSK	1	1	24.58	24.68	24.62		
20	QPSK	1	53	24.50	24.63	24.58	20.0	0.0
20	QPSK	1	104	24.50	24.83	24.51		
20	QPSK	50	0	23.92	23.77	23.82	25.0	1.0
20	QPSK	50	28	24.55	24.62	24.52	20.0	0.0
20	QPSK	50	56	23.70	23.78	23.67	25.0	1.0
20	QPSK	100	0	23.88	23.73	23.58	25.0	1.0
20	16QAM	1	1	23.82	23.88	23.78	25.0	1.0
20	16QAM	1	1	23.88	23.82	23.72	23.5	2.5
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency [MHz]				165500	167500	169500		
15	QPSK	1	1	24.47	24.52	24.48	20.0	0.0
Channel								
Frequency [MHz]				165500	167500	169500		
10	QPSK	1	1	24.5	24.5	24.5	20.0	0.0
Channel								
Frequency [MHz]				165500	167500	169500		
5	QPSK	1	1	24.45	24.50	24.47	20.0	0.0

n5_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Middle Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit [dBm]	MPR [dB]
Channel								
Frequency [MHz]				166600	167500	167900		
20	PV2 BPSK	1	1	174	174.5	174		
20	PV2 BPSK	1	53	21.00	21.02	21.04	23.0	0.0
20	PV2 BPSK	1	104	21.07	21.00	21.05		
20	PV2 BPSK	50	0	21.58	21.57	21.51	20.0	0.0
20	PV2 BPSK	50	28	21.50	21.57	21.57	25.0	0.0
20	PV2 BPSK	50	56	21.07	21.03	21.02	23.0	0.0
20	PV2 BPSK	100	0	21.52	21.58	21.47		
20	QPSK	1	1	21.65	21.70	21.62		
20	QPSK	1	53	21.51	21.62	21.58	23.0	0.0
20	QPSK	1	104	21.54	21.63	21.53		
20	QPSK	50	0	21.00	21.07	21.03	23.0	0.0
20	QPSK	50	28	21.52	21.58	21.50	23.0	0.0
20	QPSK	50	56	21.05	21.03	21.01	25.0	0.0
20	QPSK	100	0	21.65	21.65	21.58		
20	16QAM	1	1	21.51	21.62	21.47	25.0	0.0
20	16QAM	1	1	21.51	21.58	21.50	23.0	0.0
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency [MHz]				165500	167500	169500		
15	QPSK	1	1	21.50	21.64	21.47	20.0	0.0
Channel								
Frequency [MHz]				165500	167500	169500		
10	QPSK	1	1	21.5	21.65	21.48	23.0	0.0
Channel								
Frequency [MHz]				165500	167500	169500		
5	QPSK	1	1	21.53	21.59	21.56	23.0	0.0

n7_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Middle Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit [dBm]	MPR [dB]
Channel								
Frequency [MHz]				566000	567000	516000		
40	PV2 BPSK	1	1	23.78	23.78	23.78		
40	PV2 BPSK	1	108	23.70	23.82	23.88	25.0	0.0
40	PV2 BPSK	1	214	23.74	23.85	23.75		
40	PV2 BPSK	108	0	23.27	23.32	23.19	24.5	0.5
40	PV2 BPSK	108	54	23.72	23.80	23.71	25.0	0.0
40	PV2 BPSK	108	108	23.15	23.30	23.18	24.5	0.5
40	PV2 BPSK	216	0	23.19	23.33	23.18		
40	DPSK	1	1	23.80	23.80	23.80		
40	DPSK	1	108	23.74	23.83	23.78	25.0	0.0
40	DPSK	1	214	23.88	23.80	23.88		
40	DPSK	108	0	22.99	23.02	22.98	24.0	1.0
40	DPSK	108	54	23.71	23.83	23.88	25.0	0.0
40	DPSK	108	108	23.65	23.15	23.65	24.0	1.0
40	DPSK	216	0	22.90	23.03	22.88	24.0	1.0
40	16QAM	1	1	22.98	23.01	22.93	24.0	1.0
40	16QAM	1	1	21.41	21.58	21.44	23.5	2.5
40	256QAM	1	1	19.45	19.37	19.44	20.5	4.5
Channel								
Frequency [MHz]				565000	567000	516000		
30	QPSK	1	1	23.73	23.87	23.78	25.0	0.0
Channel								
Frequency [MHz]				565000	567000	516000		
20	DPSK	1	1	23.73	23.70	23.80	23.0	0.0
Channel								
Frequency [MHz]				565000	567000	516000		
20	DPSK	1	1	23.65	23.85	23.84	25.0	0.0
Channel								
Frequency [MHz]				565000	567000	516000		
15	DPSK	1	1	23.65	23.84	23.84	25.0	0.0
Channel								
Frequency [MHz]				565000	567000	516000		
10	DPSK	1	1	23.64	23.85	23.78	25.0	0.0
Channel								
Frequency [MHz]				565000	567000	516000		
5	DPSK	1	1	23.70	23.78	23.79	25.0	0.0



n7_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				2500	2530	2550		
40	PQ2 BPSK	1	1	15.25	15.41	15.52		
40	PQ2 BPSK	1	108	15.25	15.33	15.37	18.5	0.0
40	PQ2 BPSK	1	214	15.27	15.38	15.34		
40	PQ2 BPSK	108	0	15.24	15.30	15.29	18.5	0.0
40	PQ2 BPSK	108	54	15.52	15.52	15.38	18.5	0.0
40	PQ2 BPSK	108	108	15.28	15.37	15.33	18.5	0.0
40	PQ2 BPSK	216	0	15.31	15.37	15.37	18.5	0.0
40	QPSK	1	1	15.28	15.28	15.42		
40	QPSK	1	108	15.24	15.31	15.34	18.5	0.0
40	QPSK	1	214	15.29	15.38	15.32		
40	QPSK	108	0	15.28	15.32	15.34	18.5	0.0
40	QPSK	108	54	15.50	15.43	15.41	18.5	0.0
40	QPSK	108	108	15.28	15.34	15.31	18.5	0.0
40	QPSK	216	0	15.33	15.40	15.38	18.5	0.0
40	16QAM	1	1	15.29	15.38	15.28	18.5	0.0
40	16QAM	1	1	15.29	15.37	15.30	18.5	0.0
40	256QAM	1	1	15.25	15.33	15.28	18.5	0.0
Channel								
				25500	25700	25700		
30	QPSK	1	1	15.21	15.30	15.28	18.5	0.0
Channel								
				25950	26200	25820		
26	QPSK	1	1	2571.5	2573	2577.5		
Channel								
				50500	50700	51000		
20	QPSK	1	1	2571	2574	2580		
Channel								
				50550	50700	51000		
16	QPSK	1	1	15.25	15.40	15.34	18.5	0.0
Channel								
				50900	50900	51000		
16	QPSK	1	1	15.22	15.38	15.35	18.5	0.0
Channel								
				20500	20700	20675		
3	QPSK	1	1	15.30	15.30	15.31	18.5	0.0

n12_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				141500	141600	141700		
15	PQ2 BPSK	1	1	24.49	24.53	24.52		
15	PQ2 BPSK	1	40	24.33	24.41	24.40	26.0	0.0
15	PQ2 BPSK	1	77	24.38	24.47	24.45		
15	PQ2 BPSK	36	0	23.88	23.91	23.90	26.0	0.5
15	PQ2 BPSK	36	22	24.42	24.43	24.40	26.0	0.0
15	PQ2 BPSK	36	43	23.91	23.93	23.88	26.0	0.5
15	PQ2 BPSK	75	0	23.84	23.93	23.90	26.0	0.5
15	QPSK	1	1	24.20	24.28	24.23		
15	QPSK	1	40	24.42	24.43	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.40	24.34		
15	QPSK	36	0	23.88	23.93	23.97	26.0	1.0
15	QPSK	36	22	24.47	24.52	24.38	26.0	0.0
15	QPSK	36	43	23.89	23.88	23.85	26.0	1.0
15	QPSK	75	0	23.89	23.88	23.83	26.0	1.0
15	16QAM	1	1	23.42	23.55	23.46	26.0	1.0
15	16QAM	1	1	22.92	22.93	23.97	23.5	2.5
15	256QAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
				141500	141700	141700		
10	QPSK	1	1	24.42	24.44	24.45	26.0	0.0
Channel								
				141500	141500	141700		
5	QPSK	1	1	731.5	731.5	731.5		
5	QPSK	1	1	34.45	34.40	34.35	26.0	0.0

n12_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				141500	141600	141700		
Frequency (MHz)								
				731.5	731.5	731.5		
15	PQ2 BPSK	1	1	22.94	22.95	22.91		
15	PQ2 BPSK	1	40	22.89	23.01	22.98	24.5	0.0
15	PQ2 BPSK	1	77	22.95	22.96	22.92		
15	PQ2 BPSK	36	0	22.93	22.97	22.98	24.5	0.0
15	PQ2 BPSK	36	22	22.93	22.96	22.90	24.5	0.0
15	PQ2 BPSK	36	43	22.94	22.92	22.94	24.5	0.0
15	PQ2 BPSK	75	0	22.98	22.94	22.92	24.5	0.0
15	QPSK	1	1	22.92	22.95	22.92		
15	QPSK	1	40	22.98	22.92	22.90	24.5	0.0
15	QPSK	1	77	22.91	22.97	22.92		
15	QPSK	36	0	22.97	22.95	22.91	24.5	0.0
15	QPSK	36	22	23.00	23.05	23.01	24.5	0.0
15	QPSK	36	43	22.95	22.92	22.90	24.5	0.0
15	QPSK	75	0	22.98	22.92	22.90	24.5	0.0
15	16QAM	1	1	22.91	22.92	22.88	24.5	0.0
15	16QAM	1	1	22.92	22.93	23.97	23.5	1.0
15	256QAM	1	1	19.98	20.04	19.94	21.5	3.0
Channel								
				141500	141500	141700		
10	QPSK	1	1	22.91	22.93	22.98	24.5	0.0
Channel								
				141500	141500	141700		
5	QPSK	1	1	23.87	23.93	23.89	24.5	0.0



### n25\_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. F. (MHz)	Midst Ch. F. (MHz)	High Ch. F. (MHz)		
Channel								
				37400	37600	37600	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	PV2 BPSK	1	1	24.25	24.45	24.41	25.0	0.0
40	PV2 BPSK	1	108	24.27	24.38	24.32	25.0	0.0
40	PV2 BPSK	1	214	24.28	24.42	24.32	25.0	0.0
40	PV2 BPSK	108	0	23.87	23.95	23.86	24.5	0.5
40	PV2 BPSK	108	54	24.25	24.40	24.33	25.0	0.0
40	PV2 BPSK	108	108	23.95	23.92	23.83	24.5	0.5
40	PV2 BPSK	216	0	23.83	23.93	23.81	24.5	0.5
40	QPSK	1	1	24.43	24.53	24.46		
40	QPSK	1	108	24.31	24.47	24.31	25.0	0.0
40	QPSK	1	214	24.34	24.45	24.29	25.0	0.0
40	QPSK	108	0	23.39	23.33	23.32	24.0	1.0
40	QPSK	108	54	24.33	24.45	24.34	24.0	1.0
40	QPSK	108	108	23.22	23.24	23.22	24.0	1.0
40	QPSK	216	0	23.31	23.38	23.22	24.0	1.0
40	16QAM	1	1	23.28	23.31	23.29	24.0	1.0
40	16QAM	1	1	23.66	23.82	23.72	22.5	2.5
40	256QAM	1	1	19.89	19.78	19.67	20.5	4.5
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	18.62	18.64	18.62	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	18.67	18.64	18.62	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	18.62	18.64	18.62	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	18.59	18.59	18.59	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	18.52	18.58	18.55	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	18.97	18.93	18.94	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	18.95	18.96	18.94	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	18.95	18.96	18.94	17.5	0.0
Channel								
				1850	1850	1850	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
1	QPSK	1	1	18.93	17.01	18.93	17.5	0.0

### n25\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. F. (MHz)	Midst Ch. F. (MHz)	High Ch. F. (MHz)		
Channel								
				37400	37600	37600	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	PV2 BPSK	1	1	18.50	18.58	18.58	17.5	0.0
40	PV2 BPSK	1	108	18.93	18.94	18.94	17.5	0.0
40	PV2 BPSK	1	214	18.93	18.95	18.94	17.5	0.0
40	PV2 BPSK	108	0	18.97	18.96	18.92	17.5	0.0
40	PV2 BPSK	108	54	18.88	18.88	18.89	17.5	0.0
40	PV2 BPSK	108	108	18.95	18.99	18.99	17.5	0.0
40	PV2 BPSK	216	0	18.98	17.00	18.91	17.5	0.0
40	QPSK	1	1	17.23	17.28	17.25		
40	QPSK	1	108	16.89	17.02	17.09	17.5	0.0
40	QPSK	1	214	16.87	16.86	16.87	17.5	0.0
40	QPSK	108	0	16.95	17.01	16.97	17.5	0.0
40	QPSK	108	54	17.00	17.05	17.03	17.5	0.0
40	QPSK	108	108	16.93	16.88	16.89	17.5	0.0
40	QPSK	216	0	16.98	17.02	17.09	17.5	0.0
40	16QAM	1	1	16.96	16.83	16.91	17.5	0.0
40	16QAM	1	1	16.95	17.03	16.99	17.5	0.0
40	256QAM	1	1	16.90	16.98	16.93	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	18.65	18.62	18.60	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	18.67	18.64	18.62	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	18.59	18.59	18.59	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	18.52	18.58	18.55	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	18.97	18.93	18.94	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	18.95	18.96	18.94	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	18.95	18.96	18.94	17.5	0.0
Channel								
				37200	37200	37200	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
1	QPSK	1	1	18.93	17.01	18.93	17.5	0.0

### n25\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. F. (MHz)	Midst Ch. F. (MHz)	High Ch. F. (MHz)		
Channel								
				37400	37600	37600	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	PV2 BPSK	1	1	23.37	23.42	23.36	23.0	0.0
40	PV2 BPSK	1	108	23.44	23.47	23.48	23.0	0.0
40	PV2 BPSK	1	214	23.44	23.43	23.46	23.0	0.0
40	PV2 BPSK	108	0	23.45	23.47	23.41	23.0	0.0
40	PV2 BPSK	108	54	23.41	23.46	23.48	23.0	0.0
40	PV2 BPSK	108	108	23.43	23.45	23.45	23.0	0.0
40	PV2 BPSK	216	0	23.35	23.40	23.43	23.0	0.0
40	QPSK	1	1	23.50	23.55	23.51		
40	QPSK	1	108	23.40	23.45	23.38	23.0	0.0
40	QPSK	1	214	23.38	23.45	23.39	23.0	0.0
40	QPSK	108	0	23.38	23.40	23.39	23.0	0.0
40	QPSK	108	54	23.48	23.53	23.51	23.0	0.0
40	QPSK	108	108	23.40	23.46	23.43	23.0	0.0
40	QPSK	216	0	23.45	23.52	23.48	23.0	0.0
40	16QAM	1	1	23.42	23.44	23.48	23.0	0.0
40	16QAM	1	1	20.21	20.38	20.20	20.0	1.0
40	256QAM	1	1	18.24	18.33	18.20	20.0	3.0
Channel								
				37300	37300	37300	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	23.43	23.44	23.37	23.0	0.0
Channel								
				37300	37300	37300	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	23.54	23.41	23.43	23.0	0.0
Channel								
				37300	37300	37300	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	23.44	23.39	23.39	23.0	0.0
Channel								
				37300	37300	37300	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	23.35	23.47	23.42	23.0	0.0
Channel								
				37300	37300	37300	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	23.45	23.48	23.47	23.0	0.0
Channel								
				37300	37300	37300	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
1	QPSK	1	1	23.39	23.39	23.39	23.0	0.0



n30_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	19.73			
10	PV2 BPSK	1	26	19.87			18.0
10	PV2 BPSK	1	50	19.89			
10	PV2 BPSK	25	0	19.87			18.0
10	PV2 BPSK	25	14	19.87			18.0
10	PV2 BPSK	25	27	19.86			
10	PV2 BPSK	50	0	19.88			18.0
10	QPSK	1	1	19.73			
10	QPSK	1	26	19.71			18.0
10	QPSK	1	50	19.72			
10	QPSK	25	0	19.72			18.0
10	QPSK	25	14	19.72			18.0
10	QPSK	25	27	19.72			
10	QPSK	50	0	19.71			18.0
10	16QAM	1	1	19.84			18.0
10	16QAM	1	1	19.85			18.0
10	256QAM	1	1	19.87			18.0
Channel							
Frequency (MHz)							
				19.50	19.50	19.50	Tune-up limit (dBm)
				19.54	19.88	19.80	MPR (dB)
5	QPSK	1	1	19.54	19.88	19.80	18.0

n30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	15.17			
10	PV2 BPSK	1	26	15.23			16.5
10	PV2 BPSK	1	50	15.24			
10	PV2 BPSK	25	0	15.18			16.5
10	PV2 BPSK	25	14	15.20			16.5
10	PV2 BPSK	25	27	15.17			
10	PV2 BPSK	50	0	15.20			16.5
10	QPSK	1	1	15.20			
10	QPSK	1	26	15.15			16.5
10	QPSK	1	50	15.14			
10	QPSK	25	0	15.18			16.5
10	QPSK	25	14	15.25			16.5
10	QPSK	25	27	15.23			
10	QPSK	50	0	15.23			16.5
10	16QAM	1	1	15.20			16.5
10	16QAM	1	1	15.18			16.5
10	256QAM	1	1	15.15			16.5
Channel							
Frequency (MHz)							
				14.90	14.90	14.90	Tune-up limit (dBm)
				15.11	15.17	15.08	16.5
5	QPSK	1	1	15.11	15.17	15.08	16.5

n30_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	19.23			
10	PV2 BPSK	1	26	19.26			21.0
10	PV2 BPSK	1	50	19.21			
10	PV2 BPSK	25	0	19.20			21.0
10	PV2 BPSK	25	14	19.19			21.0
10	PV2 BPSK	25	27	19.19			
10	PV2 BPSK	50	0	19.27			21.0
10	QPSK	1	1	19.26			
10	QPSK	1	26	19.27			21.0
10	QPSK	1	50	19.28			
10	QPSK	25	0	19.23			21.0
10	QPSK	25	14	19.33			21.0
10	QPSK	25	27	19.36			
10	QPSK	50	0	19.31			21.0
10	16QAM	1	1	19.25			21.0
10	16QAM	1	1	19.26			21.0
10	256QAM	1	1	19.20			20.0
Channel							
Frequency (MHz)							
				19.00	19.00	19.00	Tune-up limit (dBm)
				19.18	19.26	19.19	21.0
5	QPSK	1	1	19.18	19.26	19.19	21.0



n66_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low	Mid	High		
				Ch. F. (MHz)	Ch. F. (MHz)	Ch. F. (MHz)		
Channel								
40	P12-BPSK	1	1	1730	1745	1760	25.0	0.0
40	P12-BPSK	1	108	24.25	24.40	24.54		
40	P12-BPSK	1	214	24.26	24.40	24.54		
40	P12-BPSK	108	0	23.87	23.98	24.04	24.5	0.5
40	P12-BPSK	108	54	24.30	24.45	24.59	25.0	0.0
40	P12-BPSK	108	108	23.85	23.95	24.01	24.5	0.5
40	P12-BPSK	216	0	23.88	23.95	24.03		
40	QPSK	1	1	1745	1760	1775	25.0	0.0
40	QPSK	1	108	24.31	24.45	24.58		
40	QPSK	1	214	24.31	24.43	24.53		
40	QPSK	108	0	23.30	23.43	23.58	24.0	1.0
40	QPSK	108	54	24.31	24.38	24.45	25.0	0.0
40	QPSK	108	108	23.28	23.32	23.37	24.0	1.0
40	QPSK	216	0	23.12	23.28	23.16		
40	HQDM	1	1	23.25	23.33	23.28	24.0	1.0
40	HQDM	1	1	23.86	23.89	23.77	22.5	2.5
40	25GDM	1	1	18.91	19.88	19.82	20.5	4.5
Channel								
30	QPSK	1	1	1650	1665	1680	25.0	0.0
Channel								
30	QPSK	1	1	24.97	24.88	24.97	25.0	0.0
Channel								
26	QPSK	1	1	1722.5	1745	1767.5	25.0	0.0
Channel								
26	QPSK	1	1	1722.5	1745	1767.5	25.0	0.0
Channel								
20	QPSK	1	1	1700	1745	1790	25.0	0.0
Channel								
20	QPSK	1	1	16.93	16.87	16.83	17.5	0.0
Channel								
16	QPSK	1	1	16.96	16.96	16.97	17.5	0.0
Channel								
16	QPSK	1	1	16.96	16.96	16.97	17.5	0.0
Channel								
10	QPSK	1	1	18.89	17.03	17.00	17.5	0.0
Channel								
10	QPSK	1	1	173.5	1745	1777.5	25.0	0.0
Channel								
1	QPSK	1	1	24.34	24.48	24.34	25.0	0.0

n66_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low	Mid	High		
				Ch. F. (MHz)	Ch. F. (MHz)	Ch. F. (MHz)		
Channel								
40	P12-BPSK	1	1	1745	1745	1745	17.5	0.0
40	P12-BPSK	1	108	16.94	17.01	16.91		
40	P12-BPSK	1	214	16.90	16.84	16.88		
40	P12-BPSK	108	0	16.98	16.93	16.89	17.5	0.0
40	P12-BPSK	108	54	16.92	16.84	16.96	17.5	0.0
40	P12-BPSK	108	108	16.89	16.97	16.98	17.5	0.0
40	P12-BPSK	216	0	16.98	16.95	16.97	17.5	0.0
40	QPSK	1	1	17.03	17.08	17.05		
40	QPSK	1	108	16.91	16.84	16.91	17.5	0.0
40	QPSK	1	214	16.97	17.00	16.91		
40	QPSK	108	0	16.95	17.03	16.89	17.5	0.0
40	QPSK	108	54	17.01	17.05	17.03	17.5	0.0
40	QPSK	108	108	16.98	16.93	16.91	17.5	0.0
40	QPSK	216	0	16.99	17.02	17.00	17.5	0.0
40	HQDM	1	1	16.97	16.92	16.90	17.5	0.0
40	HQDM	1	1	16.95	16.98	16.91	17.5	0.0
40	25GDM	1	1	16.91	16.93	16.98	17.5	0.0
Channel								
30	QPSK	1	1	16.91	17.03	16.92	17.5	0.0
Channel								
26	QPSK	1	1	1722.5	1745	1767.5	25.0	0.0
Channel								
26	QPSK	1	1	16.93	16.87	16.83	17.5	0.0
Channel								
20	QPSK	1	1	1700	1745	1790	25.0	0.0
Channel								
20	QPSK	1	1	16.93	16.96	16.97	17.5	0.0
Channel								
16	QPSK	1	1	16.96	16.96	16.97	17.5	0.0
Channel								
16	QPSK	1	1	16.96	16.96	16.97	17.5	0.0
Channel								
10	QPSK	1	1	18.89	17.03	17.00	17.5	0.0
Channel								
10	QPSK	1	1	173.5	1745	1777.5	25.0	0.0
Channel								
1	QPSK	1	1	16.92	16.94	16.89	17.5	0.0

n66_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low	Mid	High		
				Ch. F. (MHz)	Ch. F. (MHz)	Ch. F. (MHz)		
Channel								
40	P12-BPSK	1	1	1730	1745	1760	24.5	0.0
40	P12-BPSK	1	108	22.72	22.82	22.83		
40	P12-BPSK	1	214	22.72	22.83	22.79		
40	P12-BPSK	108	0	22.19	22.32	22.17	24.0	0.5
40	P12-BPSK	108	54	22.78	22.83	22.76	24.5	0.0
40	P12-BPSK	108	108	22.25	22.35	22.30	24.0	0.5
40	P12-BPSK	216	0	22.16	22.30	22.14		
40	QPSK	1	1	22.92	22.95	22.98	24.5	0.0
40	QPSK	1	108	22.82	22.88	22.83		
40	QPSK	1	214	22.84	22.92	22.76		
40	QPSK	108	0	21.70	21.82	21.82	23.5	1.0
40	QPSK	108	54	22.74	22.80	22.78	24.5	0.0
40	QPSK	108	108	21.65	21.73	21.61	23.5	1.0
40	QPSK	216	0	21.79	21.88	21.84	23.5	1.0
40	HQDM	1	1	21.78	21.90	21.78	23.5	1.0
40	HQDM	1	1	20.31	20.42	20.37	22.0	2.5
40	25GDM	1	1	18.27	18.35	18.20	20.0	4.5
Channel								
30	QPSK	1	1	22.85	22.89	22.78	24.5	0.0
Channel								
26	QPSK	1	1	1722.5	1745	1767.5	25.0	0.0
Channel								
26	QPSK	1	1	16.95	16.93	16.93	23.5	0.0
Channel								
20	QPSK	1	1	1700	1745	1790	25.0	0.0
Channel								
20	QPSK	1	1	16.95	16.96	16.97	23.5	0.0
Channel								
16	QPSK	1	1	16.96	16.96	16.97	23.5	0.0
Channel								
16	QPSK	1	1	16.96	16.96	16.97	23.5	0.0
Channel								
10	QPSK	1	1	18.89	17.03	17.00	24.5	0.0
Channel								
10	QPSK	1	1	173.5	1745	1777.5	25.0	0.0
Channel								
1	QPSK	1	1	22.79	22.84	22.75	24.5	0.0



n71_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Take-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				156600	156700	157600			
Frequency (MHz)				87.1	88.5	89.8			
20	PI2 BPSK	1	1	24.43	24.40	24.55	26.0	0.0	
20	PI2 BPSK	1	53	24.37	24.40	24.49	26.0	0.0	
20	PI2 BPSK	1	104	24.31	24.40	24.47	26.0	0.0	
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5	
20	PI2 BPSK	50	28	24.35	24.54	24.44	26.0	0.0	
20	PI2 BPSK	50	56	23.79	23.97	23.93	25.5	0.5	
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5	
20	QPSK	1	1	24.46	24.53	24.59	26.0	0.0	
20	QPSK	1	53	24.46	24.53	24.46	26.0	0.0	
20	QPSK	1	104	24.46	24.56	24.51	26.0	0.0	
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0	
20	QPSK	50	28	24.46	24.54	24.39	26.0	0.0	
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0	
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0	
20	16QAM	1	1	23.38	23.52	23.38	25.0	1.0	
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5	
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5	
Channel				157100	157200	157900			
Frequency (MHz)				89.5	90.5	90.5			
15	PI2 BPSK	1	1	24.43	24.42	24.42	26.0	0.0	
Channel				157600	157700	157700			
Frequency (MHz)				89.8	89.5	89.8			
10	PI2 BPSK	1	1	24.43	24.55	24.51	26.0	0.0	
Channel				158100	158100	159100			
Frequency (MHz)				90.5	90.5	90.5			
5	PI2 BPSK	1	1	24.34	24.54	24.51	26.0	0.0	

n71_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Take-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				156600	156700	157600			
Frequency (MHz)				87.1	88.5	89.8			
20	PI2 BPSK	1	1	24.43	24.40	24.55	26.0	0.0	
20	PI2 BPSK	1	53	24.37	24.46	24.49	26.0	0.0	
20	PI2 BPSK	1	104	24.31	24.52	24.47	26.0	0.0	
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5	
20	PI2 BPSK	50	28	24.35	24.54	24.44	26.0	0.0	
20	PI2 BPSK	50	56	23.79	23.97	23.93	25.5	0.5	
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5	
20	QPSK	1	1	24.46	24.53	24.59	26.0	0.0	
20	QPSK	1	53	24.46	24.53	24.46	26.0	0.0	
20	QPSK	1	104	24.46	24.56	24.51	26.0	0.0	
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0	
20	QPSK	50	28	24.46	24.54	24.39	26.0	0.0	
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0	
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0	
20	16QAM	1	1	23.38	23.52	23.38	25.0	1.0	
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5	
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5	
Channel				157100	157200	157900			
Frequency (MHz)				89.5	90.5	90.5			
15	PI2 BPSK	1	1	24.43	24.58	24.42	26.0	0.0	
Channel				157600	157700	157700			
Frequency (MHz)				89.8	89.5	89.8			
10	PI2 BPSK	1	1	24.43	24.55	24.51	26.0	0.0	
Channel				158100	158100	159100			
Frequency (MHz)				90.5	90.5	90.5			
5	PI2 BPSK	1	1	24.34	24.54	24.51	26.0	0.0	



n41_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	23.41	23.33	23.52	25.0	0.0
100	PV2 BPSK	1	137	23.32	23.45	23.40		
100	PV2 BPSK	1	271	23.29	23.37	23.36		
100	PV2 BPSK	135	0	23.28	23.45	23.36	25.0	0.0
100	PV2 BPSK	135	69	23.28	23.38	23.39	25.0	0.0
100	PV2 BPSK	135	138	23.28	23.46	23.43	25.0	0.0
100	PV2 BPSK	270	0	23.35	23.46	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.59	23.55	25.0	0.0
100	QPSK	1	137	23.35	23.40	23.36		
100	QPSK	1	271	23.46	23.53	23.41		
100	QPSK	135	0	23.22	23.38	23.32	25.0	0.0
100	QPSK	135	69	23.39	23.41	23.27	25.0	0.0
100	QPSK	135	138	23.32	23.40	23.34	25.0	0.0
100	QPSK	270	0	23.01	23.13	23.04	25.0	0.0
100	16QAM	1	1	23.48	23.53	23.39	25.0	0.0
100	16QAM	1	1	23.35	23.50	23.43	25.0	0.0
100	256QAM	1	1	21.86	21.92	21.85	23.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.33	23.40	23.42	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.38	23.54	23.46	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.31	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.30	23.51	23.42	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.33	23.53	23.41	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.32	23.52	23.43	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.30	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.53	23.48	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.35	23.43	23.47	25.0	0.0

n41_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	15.46	15.51	15.54	17.0	0.0
100	PV2 BPSK	1	137	15.39	15.58	15.56		
100	PV2 BPSK	1	271	15.48	15.57	15.50		
100	PV2 BPSK	135	0	15.50	15.55	15.47	17.0	0.0
100	PV2 BPSK	135	69	15.41	15.58	15.47	17.0	0.0
100	PV2 BPSK	135	138	15.40	15.60	15.56	17.0	0.0
100	PV2 BPSK	270	0	15.41	15.55	15.57	17.0	0.0
100	QPSK	1	1	15.55	15.65	15.62	17.0	0.0
100	QPSK	1	137	15.42	15.57	15.48		
100	QPSK	1	271	15.39	15.53	15.50		
100	QPSK	135	0	15.40	15.56	15.48	17.0	0.0
100	QPSK	135	69	15.53	15.62	15.60	17.0	0.0
100	QPSK	135	138	15.39	15.53	15.55	17.0	0.0
100	QPSK	270	0	15.50	15.60	15.58	17.0	0.0
100	16QAM	1	1	15.47	15.59	15.47	17.0	0.0
100	16QAM	1	1	15.39	15.56	15.53	17.0	0.0
100	256QAM	1	1	15.41	15.59	15.46	17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.39	15.53	15.53	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.48	15.50	15.54	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.50	15.60	15.54	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.39	15.51	15.51	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.39	15.59	15.57	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.39	15.53	15.51	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.45	15.58	15.53	17.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	15.48	15.51	15.48	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.46	15.60	15.47	17.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.48	15.54	15.47	17.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.46	15.52	15.47	17.0	0.0



### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	23.20	23.24	23.22		
100	Pi2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	Pi2 BPSK	1	271	23.85	23.83	23.77		
100	Pi2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	Pi2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	Pi2 BPSK	135	138	23.79	23.86	23.76		
100	Pi2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.96	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.85	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	16QAM	1	1	23.80	23.85	23.80	25.0	0.0
100	16QAM	1	1	23.75	23.86	23.73	25.0	0.0
100	16QAM	1	1	22.63	22.77	22.70	23.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.76	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.73	23.87	23.88	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.88	24.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.72	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.73	24.09	24.01	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.99	24.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.76	24.02	23.96	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	23.20	23.25			
100	Pi2 BPSK	1	137	23.77	23.85	23.73	25.0	0.0
100	Pi2 BPSK	1	271	23.84	23.86	23.77		
100	Pi2 BPSK	135	0	23.80	23.86	23.81	25.0	0.0
100	Pi2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	Pi2 BPSK	135	138	23.79	23.86	23.76		
100	Pi2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.85	24.11	24.12		
100	QPSK	1	137	23.74	23.74	23.84	25.0	0.0
100	QPSK	1	271	23.84	23.84	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.85	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.84	23.81		
100	QPSK	270	0	23.70	23.86	23.86	25.0	0.0
100	16QAM	1	1	23.84	23.84	23.84	25.0	0.0
100	16QAM	1	1	23.75	23.83	23.73	25.0	0.0
100	16QAM	1	1	22.63	22.63	22.29	23.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.39	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.38	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.34	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.48	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.36	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0

### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	23.20	23.24	23.22		
100	Pi2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	Pi2 BPSK	1	271	23.85	23.83	23.77		
100	Pi2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	Pi2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	Pi2 BPSK	135	138	23.79	23.86	23.76		
100	Pi2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.96	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.85	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	16QAM	1	1	23.80	23.85	23.80	25.0	0.0
100	16QAM	1	1	23.75	23.86	23.73	25.0	0.0
100	16QAM	1	1	22.63	22.77	22.70	23.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.76	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.73	23.87	23.88	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.88	24.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.72	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.73	24.09	24.01	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.99	24.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.76	24.02	23.96	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0







### Par270 n77\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3850	3950		
100	PI2 BPSK	1	1	23.20	23.84	23.82		
100	PI2 BPSK	1	157	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.83	23.77		
100	PI2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	23.86	23.76		
100	PI2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12		
100	QPSK	1	157	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.96	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.65	23.82	23.86	25.0	0.0
100	16QAM	1	1	23.80	23.80	23.80	25.0	0.0
100	16QAM	1	1	23.75	23.86	23.73	25.0	0.0
100	256QAM	1	1	22.63	22.77	22.70	23.0	0.0
Channel								
Frequency (MHz)				649668	659000	668332	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	3169.90	36	368.96		
Channel				649734	659000	668666	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel				649794	659000	668998	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel				649900	659000	669300	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	23.76	24.01	23.96	25.0	0.0
Channel				649902	659000	669302	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	23.73	23.72	23.78	25.0	0.0
Channel				649904	659000	669304	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	23.75	23.81	23.80	25.0	0.0
Channel				649906	659000	669306	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	23.74	24.03	24.07	25.0	0.0
Channel				649908	659000	669308	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	23.79	24.06	24.01	25.0	0.0
Channel				649910	659000	669310	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	23.75	23.99	24.00	25.0	0.0
Channel				647734	659000	664666	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel				647736	659000	664668	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	23.76	24.02	23.96	25.0	0.0
Channel				647738	659000	664670	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3459.96		633332		
100	PI2 BPSK	1	1		22.55			
100	PI2 BPSK	1	157		23.45		25.0	0.0
100	PI2 BPSK	1	271		23.84			
100	PI2 BPSK	135	0		23.36		25.0	0.0
100	PI2 BPSK	135	69		23.47		25.0	0.0
100	PI2 BPSK	135	138		23.46			
100	PI2 BPSK	270	0		23.47		25.0	0.0
100	QPSK	1	1		23.05			
100	QPSK	1	157		23.34		25.0	0.0
100	QPSK	1	271		23.84			
100	QPSK	135	0		23.47			
100	QPSK	135	69		23.48		25.0	0.0
100	QPSK	135	138		23.44			
100	QPSK	270	0		23.36		25.0	0.0
100	16QAM	1	1		23.34		25.0	0.0
100	16QAM	1	1		23.53		25.0	0.0
100	256QAM	1	1		22.92		23.0	0.0
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	23.52	23.45	23.37	25.0	0.0
Channel				632668	633332	634000	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel				632334	633332	634332	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel				632000	633332	634666	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	23.39	23.34	23.51	25.0	0.0
Channel				631668	633332	635000	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	23.38	23.24	23.51	25.0	0.0
Channel				631332	633332	635332	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	23.46	23.31	23.47	25.0	0.0
Channel				631000	633332	635666	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	23.43	23.15	23.48	25.0	0.0
Channel				630668	633332	636000	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel				630332	633332	636332	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel				630000	633332	636666	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel				629668	633332	637000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



ENDC Mode State 7

Band 2, Ant 1

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch./Freq., 18700, 18900, High Ch./Freq., 19100), Time-up limit (dBm), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various bandwidths (20, 25, 30, 35, 40, 45, 50, 55, 60 MHz).

Band 2\_Ant 1

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch./Freq., 18700, 18900, High Ch./Freq., 19100), Time-up limit (dBm), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various bandwidths (20, 25, 30, 35, 40, 45, 50, 55, 60 MHz).

Band 2\_Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch./Freq., 18700, 18900, High Ch./Freq., 19100), Time-up limit (dBm), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various bandwidths (20, 25, 30, 35, 40, 45, 50, 55, 60 MHz).





Band 7\_Ant 2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mid Ch / Freq, Power High Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) and a summary section at the bottom.

Band 12\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mid Ch / Freq, Power High Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) and a summary section at the bottom.

Band 12\_Ant 2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mid Ch / Freq, Power High Ch / Freq, Turn-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) and a summary section at the bottom.







n2_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			1867	1880	1900				
20	Pi/2 BPSK	1	1	23.92	23.92	23.92	25.0	0.0		
20	Pi/2 BPSK	1	53	23.80	23.88	23.73	25.0	0.0		
20	Pi/2 BPSK	1	104	23.72	23.86	23.72	25.0	0.0		
20	Pi/2 BPSK	50	0	23.92	23.91	23.92	24.5	0.5		
20	Pi/2 BPSK	50	28	23.72	23.82	23.88	25.0	0.0		
20	Pi/2 BPSK	50	56	23.72	23.78	23.73	24.5	0.5		
20	Pi/2 BPSK	100	0	23.72	23.30	23.15	24.5	0.5		
20	QPSK	1	1	23.92	23.92	23.92				
20	QPSK	1	53	23.78	23.94	23.80	25.0	0.0		
20	QPSK	1	104	23.85	23.96	23.91				
20	QPSK	50	0	22.96	23.96	23.02	24.0	1.0		
20	QPSK	50	28	23.80	23.88	23.91	25.0	0.0		
20	QPSK	50	56	23.60	23.12	23.08	24.0	1.0		
20	QPSK	100	0	22.96	23.06	22.90	24.0	1.0		
20	16QAM	1	1	22.72	22.92	22.83	24.0	1.0		
20	16QAM	1	1	21.48	21.56	21.48	23.5	2.5		
20	256QAM	1	1	19.48	19.53	19.44	20.5	4.5		
Channel										
	Frequency (MHz)			1867.5	1880	1902.5				
15	QPSK	1	1	23.80	23.91	23.85	25.0	0.0		
Channel										
	Frequency (MHz)			1865	1880	1905				
10	QPSK	1	1	23.80	23.80	23.80				
Channel										
	Frequency (MHz)			1865.00	1866.00	1865.00				
5	QPSK	1	1	23.52	23.52	23.54	25.0	0.0		

n2_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			12.92	12.94	12.94				
20	Pi/2 BPSK	1	1	12.92	12.94	12.94	14.0	0.0		
20	Pi/2 BPSK	1	53	12.93	13.04	12.89	14.0	0.0		
20	Pi/2 BPSK	1	104	12.93	12.92	12.85	14.0	0.0		
20	Pi/2 BPSK	50	0	12.89	12.88	12.83	14.0	0.0		
20	Pi/2 BPSK	50	28	12.88	13.00	12.82	14.0	0.0		
20	Pi/2 BPSK	50	56	13.00	12.93	12.89	14.0	0.0		
20	Pi/2 BPSK	100	0	12.87	12.86	12.87	14.0	0.0		
20	QPSK	1	1	12.95	12.92	12.92				
20	QPSK	1	53	12.86	12.87	12.81	14.0	0.0		
20	QPSK	1	104	12.95	13.02	12.82				
20	QPSK	50	0	12.85	13.00	12.80	14.0	0.0		
20	QPSK	50	28	13.03	13.05	13.01	14.0	0.0		
20	QPSK	50	56	12.85	12.87	12.81	14.0	0.0		
20	QPSK	100	0	12.84	13.02	12.85	14.0	0.0		
20	16QAM	1	1	12.94	12.88	12.85	14.0	0.0		
20	16QAM	1	1	13.00	12.84	12.87	14.0	0.0		
20	256QAM	1	1	12.93	13.01	12.98	14.0	0.0		
Channel										
	Frequency (MHz)			12.92500	12.93000	12.93500				
15	QPSK	1	1	12.90	13.01	12.85	14.0	0.0		
Channel										
	Frequency (MHz)			12.92	13.03	13.05				
10	QPSK	1	1	12.91	12.93	12.89	14.0	0.0		
Channel										
	Frequency (MHz)			12.92500	12.93000	12.93500				
5	QPSK	1	1	12.92	12.94	12.94	14.0	0.0		

n2_Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			17.90	17.90	17.90				
20	Pi/2 BPSK	1	1	17.92	17.94	17.92	19.0	0.0		
20	Pi/2 BPSK	1	53	17.31	17.38	17.31	19.0	0.0		
20	Pi/2 BPSK	1	104	17.38	17.41	17.30	19.0	0.0		
20	Pi/2 BPSK	50	0	17.31	17.36	17.37	19.0	0.0		
20	Pi/2 BPSK	50	28	17.41	17.52	17.30	19.0	0.0		
20	Pi/2 BPSK	50	56	17.41	17.42	17.34	19.0	0.0		
20	Pi/2 BPSK	100	0	17.38	17.37	17.37	19.0	0.0		
20	QPSK	1	1	17.40	17.40	17.41				
20	QPSK	1	53	17.34	17.36	17.28	19.0	0.0		
20	QPSK	1	104	17.38	17.43	17.37				
20	QPSK	50	0	17.32	17.41	17.36	19.0	0.0		
20	QPSK	50	28	17.43	17.45	17.41	19.0	0.0		
20	QPSK	50	56	17.36	17.42	17.35	19.0	0.0		
20	QPSK	100	0	17.40	17.42	17.38	19.0	0.0		
20	16QAM	1	1	17.34	17.35	17.28	19.0	0.0		
20	16QAM	1	1	17.32	17.36	17.37	19.0	0.0		
20	256QAM	1	1	17.41	17.42	17.37	19.0	0.0		
Channel										
	Frequency (MHz)			17.9000	17.9000	17.9000				
15	QPSK	1	1	17.34	17.33	17.38	19.0	0.0		
Channel										
	Frequency (MHz)			17.92	17.90	17.92				
10	QPSK	1	1	17.97	17.99	17.96	19.0	0.0		
Channel										
	Frequency (MHz)			17.92500	17.93000	17.92500				
5	QPSK	1	1	17.93	17.92	17.94	19.0	0.0		





n5_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166600	167500	167900		
20	PV2 BPSK	1	1	166	169.5	170		
20	PV2 BPSK	1	53	24.5	24.5	24.5	20.0	0.0
20	PV2 BPSK	1	104	24.5	24.7	24.5		
20	PV2 BPSK	50	0	23.98	24.08	23.92	25.5	0.5
20	PV2 BPSK	50	28	24.47	24.58	24.52	20.0	0.0
20	PV2 BPSK	100	0	23.92	24.02	23.98	25.5	0.5
20	QPSK	1	1	24.58	24.68	24.62		
20	QPSK	1	53	24.50	24.63	24.58	20.0	0.0
20	QPSK	1	104	24.50	24.83	24.51		
20	QPSK	50	0	23.92	23.77	23.85	25.0	1.0
20	QPSK	50	28	24.55	24.62	24.52	20.0	0.0
20	QPSK	50	56	23.70	23.78	23.67	25.0	1.0
20	QPSK	100	0	23.88	23.73	23.58	25.0	1.0
20	HDQAM	1	1	23.82	23.88	23.78	25.0	1.0
20	HDQAM	1	1	23.18	23.28	23.15	23.5	2.5
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency (MHz)				165500	167500	169500		
15	QPSK	1	1	24.47	24.52	24.48	20.0	0.0
Channel								
Frequency (MHz)				165900	167500	168900		
10	QPSK	1	1	24.5	24.6	24.5	20.0	0.0
Channel								
Frequency (MHz)				165300	167500	169300		
5	QPSK	1	1	24.45	24.50	24.42	20.0	0.0

n5_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)				166600	167500	167900		
20	PV2 BPSK	1	1	174	177.5	178		
20	PV2 BPSK	1	53	18.06	18.07	18.03	19.5	0.0
20	PV2 BPSK	1	104	18.03	18.01	18.03		
20	PV2 BPSK	50	0	17.99	18.11	18.07	19.0	0.0
20	PV2 BPSK	50	28	18.04	18.02	17.98	19.5	0.0
20	PV2 BPSK	50	56	18.02	18.09	18.04	19.5	0.0
20	PV2 BPSK	100	0	17.97	18.11	18.03		
20	QPSK	1	1	18.11	18.20	18.13		
20	QPSK	1	53	18.04	18.02	18.01	19.5	0.0
20	QPSK	1	104	17.97	18.02	18.08		
20	QPSK	50	0	18.00	18.07	18.02	19.5	0.0
20	QPSK	50	28	18.11	18.14	18.12	19.5	0.0
20	QPSK	50	56	17.99	18.01	18.08	19.5	0.0
20	QPSK	100	0	18.09	18.12	18.10	19.5	0.0
20	HDQAM	1	1	17.97	18.01	18.00	19.5	0.0
20	HDQAM	1	1	18.05	18.04	18.05	19.5	0.0
20	256QAM	1	1	17.98	18.04	17.99	19.5	0.0
Channel								
Frequency (MHz)				165500	167500	169500		
15	QPSK	1	1	18.04	18.05	18.01	19.5	0.0
Channel								
Frequency (MHz)				165900	167500	168900		
10	QPSK	1	1	18.04	18.05	18.01	19.5	0.0
Channel								
Frequency (MHz)				165300	167500	169300		
5	QPSK	1	1	18.04	18.05	18.01	19.5	0.0

n7_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				566000	567000	516000		
40	PV2 BPSK	1	1	23.78	23.82	23.82		
40	PV2 BPSK	1	108	23.70	23.82	23.88	25.0	0.0
40	PV2 BPSK	1	214	23.74	23.85	23.75		
40	PV2 BPSK	108	0	23.27	23.32	23.19	24.5	0.5
40	PV2 BPSK	108	54	23.72	23.80	23.71	25.0	0.0
40	PV2 BPSK	108	108	23.15	23.30	23.18	24.5	0.5
40	PV2 BPSK	216	0	23.19	23.33	23.18		
40	QPSK	1	1	23.80	23.82	23.80		
40	QPSK	1	108	23.74	23.83	23.78	25.0	0.0
40	QPSK	1	214	23.88	23.80	23.88		
40	QPSK	108	0	22.99	23.05	22.98	24.0	1.0
40	QPSK	108	54	23.71	23.83	23.88	25.0	0.0
40	QPSK	108	108	23.65	23.15	23.65	24.0	1.0
40	QPSK	216	0	22.90	23.03	22.88	24.0	1.0
40	HDQAM	1	1	22.98	23.01	22.93	24.0	1.0
40	HDQAM	1	1	21.41	21.58	21.44	23.5	2.5
40	256QAM	1	1	19.45	19.57	19.44	20.5	4.5
Channel								
Frequency (MHz)				563000	567000	513000		
30	QPSK	1	1	23.73	23.87	23.78	25.0	0.0
Channel								
Frequency (MHz)				565000	567000	515000		
20	QPSK	1	1	23.73	23.70	23.80	23.0	0.0
Channel								
Frequency (MHz)				561000	567000	519000		
20	QPSK	1	1	23.65	23.85	23.91	25.0	0.0
Channel								
Frequency (MHz)				561500	567000	518500		
15	QPSK	1	1	23.65	23.84	23.84	25.0	0.0
Channel								
Frequency (MHz)				561000	567000	518000		
10	QPSK	1	1	23.64	23.85	23.78	25.0	0.0
Channel								
Frequency (MHz)				560500	567000	517500		
5	QPSK	1	1	23.70	23.78	23.79	25.0	0.0



n7_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				2500	2530	2560		
40	PQ2 BPSK	1	1	11.75	11.95	11.81		
40	PQ2 BPSK	1	108	11.75	11.91	11.85	13.0	0.0
40	PQ2 BPSK	1	214	11.75	11.84	11.86		
40	PQ2 BPSK	108	0	11.80	11.95	11.82	13.0	0.0
40	PQ2 BPSK	108	54	11.75	11.92	11.82	13.0	0.0
40	PQ2 BPSK	108	108	11.75	11.90	11.82	13.0	0.0
40	PQ2 BPSK	216	0	11.75	11.83	11.77	13.0	0.0
40	QPSK	1	1	11.86	11.98	11.92		
40	QPSK	1	108	11.75	11.93	11.84	13.0	0.0
40	QPSK	1	214	11.75	11.88	11.84		
40	QPSK	108	0	11.75	11.92	11.82	13.0	0.0
40	QPSK	108	54	11.80	11.95	11.83	13.0	0.0
40	QPSK	108	108	11.75	11.93	11.86	13.0	0.0
40	QPSK	216	0	11.80	11.93	11.81		
40	16QAM	1	1	11.75	11.93	11.83	13.0	0.0
40	16QAM	1	1	11.80	11.95	11.83	13.0	0.0
40	256QAM	1	1	11.75	11.82	11.80	13.0	0.0
Channel								
				2500	2530	2560		
30	QPSK	1	1	11.75	11.86	11.88	13.0	0.0
Channel								
				2500	2530	2530		
26	QPSK	1	1	2515	2535	2537		
Channel								
				5000	5030	5100		
20	QPSK	1	1	11.74	11.92	11.84	13.0	0.0
Channel								
				5000	5030	5100		
16	QPSK	1	1	11.75	11.88	11.85	13.0	0.0
Channel								
				5000	5030	5100		
16	QPSK	1	1	11.77	11.84	11.80	13.0	0.0
Channel								
				2050	2030	2030		
3	QPSK	1	1	11.75	11.89	11.87	13.0	0.0

n12_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				14100	14100	14100		
15	PQ2 BPSK	1	1	24.42	24.53	24.50		
15	PQ2 BPSK	1	40	24.33	24.41	24.40	26.0	0.0
15	PQ2 BPSK	1	77	24.38	24.47	24.45		
15	PQ2 BPSK	36	0	23.88	23.91	23.90	26.0	0.0
15	PQ2 BPSK	36	22	24.42	24.43	24.40	26.0	0.0
15	PQ2 BPSK	36	43	23.91	23.93	23.88	26.0	0.0
15	PQ2 BPSK	75	0	23.84	23.93	23.90	26.0	0.0
15	QPSK	1	1	24.40	24.48	24.51		
15	QPSK	1	40	24.42	24.43	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.40	24.34		
15	QPSK	36	0	23.88	23.93	23.97	26.0	1.0
15	QPSK	36	22	24.47	24.52	24.38	26.0	0.0
15	QPSK	36	43	23.89	23.88	23.85	26.0	1.0
15	QPSK	75	0	23.90	23.98	23.93	26.0	1.0
15	16QAM	1	1	24.42	24.50	24.46	26.0	1.0
15	16QAM	1	1	22.92	22.93	23.97	23.5	2.5
15	256QAM	1	1	19.96	20.04	19.94	21.5	4.5
Channel								
				14100	14100	14100		
10	QPSK	1	1	24.42	24.44	24.45	26.0	0.0
Channel								
				14100	14100	14100		
5	QPSK	1	1	70.15	70.15	70.15		
5	QPSK	1	1	34.45	34.40	34.35	26.0	0.0

n12_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				14100	14100	14100		
Frequency (MHz)								
				701.5	701.5	701.5		
15	PQ2 BPSK	1	1	19.45	19.54	19.50		
15	PQ2 BPSK	1	40	19.49	19.43	19.48	21.0	0.0
15	PQ2 BPSK	1	77	19.47	19.54	19.48		
15	PQ2 BPSK	36	0	19.47	19.48	19.43	21.0	0.0
15	PQ2 BPSK	36	25	19.49	19.51	19.39	21.0	0.0
15	PQ2 BPSK	36	43	19.47	19.44	19.48	21.0	0.0
15	PQ2 BPSK	75	0	19.47	19.43	19.37	21.0	0.0
15	QPSK	1	1	19.50	19.50	19.51		
15	QPSK	1	40	19.44	19.45	19.37	21.0	0.0
15	QPSK	1	77	19.44	19.49	19.43		
15	QPSK	36	0	19.49	19.52	19.43	21.0	0.0
15	QPSK	36	22	19.55	19.57	19.52	21.0	0.0
15	QPSK	36	43	19.49	19.51	19.51	21.0	0.0
15	QPSK	75	0	19.52	19.53	19.50	21.0	0.0
15	16QAM	1	1	19.42	19.46	19.41	21.0	0.0
15	16QAM	1	1	19.40	19.50	19.45	21.0	0.0
15	256QAM	1	1	19.44	19.51	19.43	21.0	0.0
Channel								
				14100	14100	14100		
Frequency (MHz)								
				701	701.5	711		
10	QPSK	1	1	19.40	19.52	19.39	21.0	0.0
Channel								
				14100	14100	14100		
5	QPSK	1	1	19.47	19.53	19.37	21.0	0.0



n25_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. F. (MHz)	Midst Ch. F. (MHz)	High Ch. F. (MHz)		
Channel								
	Frequency (MHz)			1810	1812	1816		
40	P12 BPSK	1	1	24.25	24.45	24.41	25.0	0.0
40	P12 BPSK	1	108	24.27	24.38	24.32	25.0	0.0
40	P12 BPSK	1	214	24.28	24.42	24.32	25.0	0.0
40	P12 BPSK	108	0	23.87	23.95	23.86	24.5	0.5
40	P12 BPSK	108	54	24.25	24.40	24.33	25.0	0.0
40	P12 BPSK	108	108	23.85	23.92	23.83	24.5	0.5
40	P12 BPSK	216	0	23.83	23.93	23.81	24.5	0.5
40	QPSK	1	1	24.43	24.53	24.46	25.0	0.0
40	QPSK	1	108	24.31	24.47	24.31	25.0	0.0
40	QPSK	1	214	24.34	24.45	24.29	25.0	0.0
40	QPSK	108	0	23.19	23.33	23.20	24.0	1.0
40	QPSK	108	54	24.33	24.45	24.34	25.0	0.0
40	QPSK	108	108	23.22	23.34	23.22	24.0	1.0
40	QPSK	216	0	23.31	23.38	23.22	24.0	1.0
40	16QAM	1	1	23.28	23.31	23.29	24.0	1.0
40	16QAM	1	1	23.66	23.82	23.72	22.5	2.5
40	256QAM	1	1	19.69	19.78	19.67	20.5	4.5
Channel								
	Frequency (MHz)			1850	1852	1900		
30	QPSK	1	1	24.85	24.97	24.98	25.0	0.0
Channel								
	Frequency (MHz)			1892.5	1892.5	1902.5		
20	QPSK	1	1	18.93	18.48	18.95	20.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38100		
20	QPSK	1	1	18.99	18.82	19.00	20.0	0.0
Channel								
	Frequency (MHz)			37550	37600	38150		
16	QPSK	1	1	24.52	24.45	24.36	25.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38000		
16	QPSK	1	1	24.34	24.39	24.37	25.0	0.0
Channel								
	Frequency (MHz)			1892.0	1892.0	1912.0		
3	QPSK	1	1	24.29	24.40	24.36	25.0	0.0

n25_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. F. (MHz)	Midst Ch. F. (MHz)	High Ch. F. (MHz)		
Channel								
	Frequency (MHz)			37400	37600	37600		
40	P12 BPSK	1	1	13.41	13.43	13.42	14.0	0.0
40	P12 BPSK	1	108	13.47	13.43	13.39	14.0	0.0
40	P12 BPSK	1	214	13.41	13.48	13.41	14.0	0.0
40	P12 BPSK	108	0	13.43	13.39	13.39	14.0	0.0
40	P12 BPSK	108	54	13.43	13.48	13.35	14.0	0.0
40	P12 BPSK	108	108	13.37	13.44	13.43	14.0	0.0
40	P12 BPSK	216	0	13.45	13.40	13.39	14.0	0.0
40	QPSK	1	1	13.23	13.25	13.21	14.0	0.0
40	QPSK	1	108	13.48	13.46	13.25	14.0	0.0
40	QPSK	1	214	13.48	13.30	13.46	14.0	0.0
40	QPSK	108	0	13.42	13.43	13.43	14.0	0.0
40	QPSK	108	54	13.51	13.53	13.49	14.0	0.0
40	QPSK	108	108	13.40	13.40	13.48	14.0	0.0
40	QPSK	216	0	13.49	13.50	13.47	14.0	0.0
40	16QAM	1	1	13.46	13.30	13.35	14.0	0.0
40	16QAM	1	1	13.44	13.44	13.45	14.0	0.0
40	256QAM	1	1	13.44	13.30	13.38	14.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38000		
30	QPSK	1	1	13.47	13.44	13.37	14.0	0.0
Channel								
	Frequency (MHz)			1892.5	1892.5	1902.5		
20	QPSK	1	1	13.47	13.45	13.37	14.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38100		
20	QPSK	1	1	13.39	13.45	13.37	14.0	0.0
Channel								
	Frequency (MHz)			37550	37600	38150		
16	QPSK	1	1	13.40	13.40	13.43	14.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38000		
10	QPSK	1	1	13.44	13.41	13.43	14.0	0.0
Channel								
	Frequency (MHz)			1892.0	1892.0	1912.0		
3	QPSK	1	1	13.42	13.46	13.36	14.0	0.0

n25_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. F. (MHz)	Midst Ch. F. (MHz)	High Ch. F. (MHz)		
Channel								
	Frequency (MHz)			37400	37600	37600		
40	P12 BPSK	1	1	17.43	17.43	17.48	19.0	0.0
40	P12 BPSK	1	108	17.41	17.48	17.45	19.0	0.0
40	P12 BPSK	1	214	17.43	17.43	17.42	19.0	0.0
40	P12 BPSK	108	0	17.42	17.48	17.37	19.0	0.0
40	P12 BPSK	108	54	17.41	17.42	17.39	19.0	0.0
40	P12 BPSK	108	108	17.39	17.47	17.40	19.0	0.0
40	P12 BPSK	216	0	17.39	17.41	17.45	19.0	0.0
40	QPSK	1	1	17.51	17.56	17.51	19.0	0.0
40	QPSK	1	108	17.39	17.42	17.37	19.0	0.0
40	QPSK	1	214	17.37	17.45	17.39	19.0	0.0
40	QPSK	108	0	17.38	17.41	17.45	19.0	0.0
40	QPSK	108	54	17.48	17.53	17.50	19.0	0.0
40	QPSK	108	108	17.56	17.56	17.57	19.0	0.0
40	QPSK	216	0	17.45	17.58	17.48	19.0	0.0
40	16QAM	1	1	17.48	17.46	17.42	19.0	0.0
40	16QAM	1	1	17.41	17.41	17.38	19.0	0.0
40	256QAM	1	1	17.39	17.42	17.40	19.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38000		
30	QPSK	1	1	17.42	17.44	17.41	19.0	0.0
Channel								
	Frequency (MHz)			1892.5	1892.5	1902.5		
20	QPSK	1	1	17.35	17.50	17.42	19.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38100		
20	QPSK	1	1	17.37	17.45	17.45	19.0	0.0
Channel								
	Frequency (MHz)			37550	37600	38150		
15	QPSK	1	1	17.42	17.45	17.39	19.0	0.0
Channel								
	Frequency (MHz)			37500	37600	38000		
10	QPSK	1	1	17.43	17.46	17.37	19.0	0.0
Channel								
	Frequency (MHz)			1892.0	1892.0	1912.0		
3	QPSK	1	1	17.36	17.45	17.47	19.0	0.0



n30_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	18.72	19.10		
10	PV2 BPSK	1	26	18.87	19.10	18.0	0.0
10	PV2 BPSK	1	50	18.88	19.10		
10	PV2 BPSK	25	0	18.87	19.10	18.0	0.0
10	PV2 BPSK	25	14	18.87	19.10	18.0	0.0
10	PV2 BPSK	25	27	18.88	19.10	18.0	0.0
10	PV2 BPSK	50	0	18.88	19.10	18.0	0.0
10	QPSK	1	1	18.72	19.10		
10	QPSK	1	26	18.71	19.10	18.0	0.0
10	QPSK	1	50	18.72	19.10		
10	QPSK	25	0	18.72	19.10	18.0	0.0
10	QPSK	25	14	18.72	19.10	18.0	0.0
10	QPSK	25	27	18.72	19.10	18.0	0.0
10	QPSK	50	0	18.71	19.10	18.0	0.0
10	16QAM	1	1	18.84	19.10	18.0	0.0
10	16QAM	1	1	18.85	19.10	18.0	0.0
10	256QAM	1	1	18.87	19.10	18.0	0.0
Channel							
Frequency (MHz)							
				18.500	19.000	18.500	
				207.5	210	212.5	
5	QPSK	1	1	18.54	18.88	18.80	0.0

n30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	11.72	12.10		
10	PV2 BPSK	1	26	11.65	12.10	13.0	0.0
10	PV2 BPSK	1	50	11.68	12.10		
10	PV2 BPSK	25	0	11.72	12.10	13.0	0.0
10	PV2 BPSK	25	14	11.70	12.10	13.0	0.0
10	PV2 BPSK	25	27	11.72	12.10	13.0	0.0
10	PV2 BPSK	50	0	11.72	12.10	13.0	0.0
10	QPSK	1	1	11.70	12.10		
10	QPSK	1	26	11.68	12.10	13.0	0.0
10	QPSK	1	50	11.67	12.10		
10	QPSK	25	0	11.69	12.10	13.0	0.0
10	QPSK	25	14	11.76	12.10	13.0	0.0
10	QPSK	25	27	11.73	12.10	13.0	0.0
10	QPSK	50	0	11.68	12.10	13.0	0.0
10	16QAM	1	1	11.70	12.10	13.0	0.0
10	16QAM	1	1	11.66	12.10	13.0	0.0
10	256QAM	1	1	11.72	12.10	13.0	0.0
Channel							
Frequency (MHz)							
				48.000	48.000	48.000	
				207.5	210	212.5	
5	QPSK	1	1	11.70	11.73	11.69	0.0

n30_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	14.76	15.10		
10	PV2 BPSK	1	26	14.73	15.10	16.5	0.0
10	PV2 BPSK	1	50	14.72	15.10		
10	PV2 BPSK	25	0	14.74	15.10	16.5	0.0
10	PV2 BPSK	25	14	14.69	15.10	16.5	0.0
10	PV2 BPSK	25	27	14.69	15.10	16.5	0.0
10	PV2 BPSK	50	0	14.73	15.10	16.5	0.0
10	QPSK	1	1	14.80	15.10		
10	QPSK	1	26	14.78	15.10	16.5	0.0
10	QPSK	1	50	14.72	15.10		
10	QPSK	25	0	14.69	15.10	16.5	0.0
10	QPSK	25	14	14.83	15.10	16.5	0.0
10	QPSK	25	27	14.76	15.10	16.5	0.0
10	QPSK	50	0	14.88	15.10	16.5	0.0
10	16QAM	1	1	14.76	15.10	16.5	0.0
10	16QAM	1	1	14.69	15.10	16.5	0.0
10	256QAM	1	1	14.71	15.10	16.5	0.0
Channel							
Frequency (MHz)							
				181.00	181.00	181.00	
				207.5	210	212.5	
5	QPSK	1	1	14.78	14.80	14.75	0.0



### n66\_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)								
40	PB2 BPSK	1	1	1730	1745	1760		
40	PB2 BPSK	1	108	24.25	24.30	24.34	25.0	0.0
40	PB2 BPSK	1	214	24.26	24.40	24.24		
40	PB2 BPSK	108	0	23.87	23.98	23.84	24.5	0.5
40	PB2 BPSK	108	54	24.30	24.45	24.39	25.0	0.0
40	PB2 BPSK	108	108	23.95	23.95	23.81	24.5	0.5
40	PB2 BPSK	216	0	23.89	23.95	23.83		
40	QPSK	1	1	24.46	24.53	24.48		
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0
40	QPSK	1	214	24.31	24.43	24.33		
40	QPSK	108	0	23.30	23.43	23.38	24.0	1.0
40	QPSK	108	54	24.31	24.39	24.25	25.0	0.0
40	QPSK	108	108	23.28	23.30	23.21	24.0	1.0
40	QPSK	216	0	23.12	23.28	23.19		
40	HS-DMA	1	1	23.20	23.33	23.29	24.0	1.0
40	HS-DMA	1	1	21.96	21.99	21.77	22.5	2.5
40	HS-DMA	1	1	19.81	19.88	19.82	20.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	16500	16500	16500		
Channel								
Frequency (MHz)								
30	QPSK	1	1	1725	1745	1765		
30	QPSK	1	1	24.97	24.88	24.97	25.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	1929	1947	1944	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	34500	34500	34500		
Channel								
Frequency (MHz)								
16	QPSK	1	1	24.20	24.43	24.33	25.0	0.0
Channel								
Frequency (MHz)								
16	QPSK	1	1	24.20	24.48	24.40	25.0	0.0
Channel								
Frequency (MHz)								
3	QPSK	1	1	1712.5	1745	1777.5		
3	QPSK	1	1	24.34	24.48	24.34	25.0	0.0

### n66\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)								
40	PB2 BPSK	1	1	1730	1745	1760		
40	PB2 BPSK	1	108	13.37	13.51	13.41		
40	PB2 BPSK	1	214	13.40	13.53	13.45	14.0	0.0
40	PB2 BPSK	108	0	13.47	13.43	13.48	14.0	0.0
40	PB2 BPSK	108	54	13.44	13.47	13.39	14.0	0.0
40	PB2 BPSK	108	108	13.47	13.49	13.41	14.0	0.0
40	PB2 BPSK	216	0	13.48	13.42	13.43		
40	QPSK	1	1	13.53	13.58	13.45		
40	QPSK	1	108	13.46	13.48	13.39	14.0	0.0
40	QPSK	1	214	13.37	13.43	13.46		
40	QPSK	108	0	13.45	13.53	13.39	14.0	0.0
40	QPSK	108	54	13.51	13.55	13.53	14.0	0.0
40	QPSK	108	108	13.43	13.43	13.41	14.0	0.0
40	QPSK	216	0	13.48	13.53	13.50		
40	HS-DMA	1	1	13.37	13.53	13.46	14.0	0.0
40	HS-DMA	1	1	13.38	13.51	13.40	14.0	0.0
40	HS-DMA	1	1	13.39	13.47	13.49	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16500	16500	16500		
Channel								
Frequency (MHz)								
26	QPSK	1	1	1725	1745	1765		
26	QPSK	1	1	19.44	19.44	19.46	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	34500	34500	34500		
Channel								
Frequency (MHz)								
16	QPSK	1	1	24.20	24.45	24.43	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.48	13.44	13.50	14.0	0.0
Channel								
Frequency (MHz)								
3	QPSK	1	1	1712.5	1745	1777.5		
3	QPSK	1	1	13.48	13.48	13.39	14.0	0.0

### n66\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.		
Channel								
Frequency (MHz)								
40	PB2 BPSK	1	1	1730	1745	1760		
40	PB2 BPSK	1	108	19.12	19.17	19.10		
40	PB2 BPSK	1	214	19.17	19.28	19.17	21.5	0.0
40	PB2 BPSK	108	0	19.30	19.27	19.28	21.5	0.0
40	PB2 BPSK	108	54	19.28	19.27	19.27	21.5	0.0
40	PB2 BPSK	108	108	19.28	19.30	19.22	21.5	0.0
40	PB2 BPSK	216	0	19.17	19.23	19.23		
40	QPSK	1	1	19.16	19.16	19.12		
40	QPSK	1	108	19.28	19.21	19.27	21.5	0.0
40	QPSK	1	214	19.28	19.24	19.27		
40	QPSK	108	0	19.28	19.22	19.21	21.5	0.0
40	QPSK	108	54	19.23	19.25	19.21	21.5	0.0
40	QPSK	108	108	19.16	19.16	19.14	21.5	0.0
40	QPSK	216	0	19.16	19.22	19.22		
40	HS-DMA	1	1	19.10	19.10	19.27	21.5	0.0
40	HS-DMA	1	1	19.20	19.20	19.27	21.5	0.0
40	HS-DMA	1	1	18.27	18.35	18.20	20.0	1.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	16500	16500	16500		
Channel								
Frequency (MHz)								
26	QPSK	1	1	1725	1745	1765		
26	QPSK	1	1	19.28	19.24	19.22	21.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	34500	34500	34500		
Channel								
Frequency (MHz)								
16	QPSK	1	1	24.20	24.45	24.45	21.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.16	19.27	19.25	21.5	0.0
Channel								
Frequency (MHz)								
3	QPSK	1	1	1712.5	1745	1777.5		
3	QPSK	1	1	19.21	19.22	19.22	21.5	0.0



n71_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Time-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				156600	156700	157600		
Frequency (MHz)				871	883	898		
20	PI2 BPSK	1	1	24.43	24.60	24.55		
20	PI2 BPSK	1	53	24.37	24.48	24.49	28.0	0.0
20	PI2 BPSK	1	104	24.31	24.42	24.47		
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5
20	PI2 BPSK	50	28	24.35	24.54	24.44	28.0	0.0
20	PI2 BPSK	50	56	23.79	23.97	23.93	25.5	0.5
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5
20	QPSK	1	1	24.48	24.60	24.59		
20	QPSK	1	53	24.48	24.53	24.46	28.0	0.0
20	QPSK	1	104	24.46	24.56	24.51		
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0
20	QPSK	50	28	24.48	24.54	24.39	28.0	0.0
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0
20	16QAM	1	1	23.38	23.52	23.38	25.0	0.0
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5
Channel				157600	157700	157700		
Frequency (MHz)				876.5	880.5	880.5		
15	PI2 BPSK	1	1	24.43	24.25	24.42	28.0	0.0
Channel				157700	157800	157800		
Frequency (MHz)				879	880.5	881		
10	PI2 BPSK	1	1	24.43	24.55	24.51	28.0	0.0
Channel				158100	158100	158100		
Frequency (MHz)				882.5	883	883		
5	PI2 BPSK	1	1	24.34	24.54	24.51	28.0	0.0

n71_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Time-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				158600	158700	157600		
Frequency (MHz)				871	880.5	878		
20	PI2 BPSK	1	1	23.33	23.37	23.49		
20	PI2 BPSK	1	53	23.39	23.60	23.52	25.0	0.0
20	PI2 BPSK	1	104	23.41	23.56	23.51		
20	PI2 BPSK	50	0	23.42	23.56	23.51	25.0	0.0
20	PI2 BPSK	50	28	23.37	23.58	23.54	25.0	0.0
20	PI2 BPSK	50	56	23.41	23.57	23.55	24.0	0.0
20	PI2 BPSK	100	0	23.41	23.58	23.54	24.0	0.0
20	QPSK	1	1	23.50	23.55	23.50		
20	QPSK	1	53	23.45	23.57	23.55	25.0	0.0
20	QPSK	1	104	23.34	23.49	23.46		
20	QPSK	50	0	23.42	23.51	23.50	25.0	0.0
20	QPSK	50	28	23.48	23.63	23.58	25.0	0.0
20	QPSK	50	56	23.36	23.56	23.51	25.0	0.0
20	QPSK	100	0	23.42	23.55	23.49	25.0	0.0
20	16QAM	1	1	23.38	23.52	23.38	25.0	0.0
20	16QAM	1	1	21.74	21.85	21.78	23.5	2.5
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5
Channel				158700	158800	158700		
Frequency (MHz)				876.5	880.5	880.5		
15	PI2 BPSK	1	1	23.38	23.50	23.44	25.0	0.0
Channel				158800	158900	158900		
Frequency (MHz)				878	880.5	881		
10	PI2 BPSK	1	1	23.35	23.53	23.48	25.0	0.0
Channel				159100	159100	159100		
Frequency (MHz)				882.5	883	883		
5	PI2 BPSK	1	1	23.42	23.62	23.57	25.0	0.0



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	23.41	23.33	23.52			
100	Pi2 BPSK	1	137	23.32	23.45	23.40	25.0	0.0	
100	Pi2 BPSK	1	271	23.29	23.37	23.36			
100	Pi2 BPSK	135	0	23.28	23.45	23.36	25.0	0.0	
100	Pi2 BPSK	135	69	23.28	23.38	23.39	25.0	0.0	
100	Pi2 BPSK	135	138	23.28	23.46	23.43	25.0	0.0	
100	Pi2 BPSK	270	0	23.35	23.46	23.45	25.0	0.0	
100	QPSK	1	1	23.45	23.59	23.55			
100	QPSK	1	137	23.35	23.40	23.36	25.0	0.0	
100	QPSK	1	271	23.46	23.53	23.41			
100	QPSK	135	0	23.22	23.38	23.32	25.0	0.0	
100	QPSK	135	69	23.39	23.41	23.27	25.0	0.0	
100	QPSK	135	138	23.32	23.40	23.34	25.0	0.0	
100	QPSK	270	0	23.01	23.13	23.04	25.0	0.0	
100	16QAM	1	1	23.48	23.53	23.39	25.0	0.0	
100	64QAM	1	1	23.35	23.50	23.43	25.0	0.0	
100	256QAM	1	1	21.86	21.92	21.85	23.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.33	23.40	23.42	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.38	23.54	23.46	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.31	23.52	23.55	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.37	23.51	23.44	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.30	23.51	23.42	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.30	23.51	23.42	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.51	23.44	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	25.0	0.0	

n41_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	11.95	12.04	12.03			
100	Pi2 BPSK	1	137	11.95	12.05	11.98	13.5	0.0	
100	Pi2 BPSK	1	271	12.05	12.03	12.06			
100	Pi2 BPSK	135	0	12.02	12.00	12.02	13.5	0.0	
100	Pi2 BPSK	135	69	12.00	12.08	11.97	13.5	0.0	
100	Pi2 BPSK	135	138	11.95	12.07	11.98	13.5	0.0	
100	Pi2 BPSK	270	0	12.05	12.11	12.07			
100	QPSK	1	1	12.11	12.16	12.13			
100	QPSK	1	137	12.01	12.03	11.99	13.5	0.0	
100	QPSK	1	271	12.05	12.08	12.06			
100	QPSK	135	0	12.05	12.01	11.98			
100	QPSK	135	69	12.05	12.13	12.10	13.5	0.0	
100	QPSK	135	138	12.06	12.04	12.07			
100	QPSK	270	0	12.06	12.10	12.08			
100	16QAM	1	1	12.02	12.09	12.05	13.5	0.0	
100	64QAM	1	1	12.06	12.09	12.02	13.5	0.0	
100	256QAM	1	1	12.03	12.08	11.99	13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.97	12.00	12.04	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.00	12.00	12.00	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.05	12.00	11.98	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.98	12.00	11.98	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.02	12.03	12.01	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.95	12.01	12.06	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.04	12.03	12.05	13.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	11.99	12.02	12.02	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.02	12.06	12.02	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.99	12.03	12.01	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.95	12.02	12.04	13.5	0.0	



### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. @60000	Power Middle Ch. Freq. @60000	Power High Ch. Freq. @60000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.82	21.02	21.08		
100	PI2 BPSK	1	137	20.78	21.07	21.03	22.0	0.0
100	PI2 BPSK	1	271	20.74	21.02	20.99		
100	PI2 BPSK	135	0	20.78	21.08	20.98	22.0	0.0
100	PI2 BPSK	135	69	20.78	21.09	21.03	22.0	0.0
100	PI2 BPSK	135	138	20.78	21.03	21.05		
100	PI2 BPSK	270	0	20.80	21.04	21.08	22.0	0.0
100	QPSK	1	1	20.88	21.15	21.13		
100	QPSK	1	137	20.81	21.03	21.06	22.0	0.0
100	QPSK	1	271	20.75	20.99	21.09		
100	QPSK	135	0	20.80	21.06	21.00		
100	QPSK	135	69	20.85	21.13	21.11	22.0	0.0
100	QPSK	135	138	20.80	21.10	21.08		
100	QPSK	270	0	20.83	21.11	21.09	22.0	0.0
100	16QAM	1	1	20.75	21.02	21.03	22.0	0.0
100	16QAM	1	1	20.78	21.05	21.04	22.0	0.0
100	16QAM	1	1	20.79	21.00	21.00	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	66232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	64934	65000	65066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	64900	65000	65000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	64866	65000	66232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	64834	65000	65066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	64800	65000	65000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	64768	65000	66232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
25	QPSK	1	1	64734	65000	65066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	64700	65000	65000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	64666	65000	66232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	64634	65000	65066	Tune-up Int. (dBm)	MPR (dB)

### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.83	21.03	21.09		
100	PI2 BPSK	1	137	20.78	21.07	21.03	22.0	0.0
100	PI2 BPSK	1	271	20.74	21.02	20.99		
100	PI2 BPSK	135	0	20.78	21.08	20.98	22.0	0.0
100	PI2 BPSK	135	69	20.78	21.09	21.03	22.0	0.0
100	PI2 BPSK	135	138	20.78	21.03	21.05		
100	PI2 BPSK	270	0	20.80	21.04	21.08	22.0	0.0
100	QPSK	1	1	20.88	21.15	21.13		
100	QPSK	1	137	20.81	21.03	21.06	22.0	0.0
100	QPSK	1	271	20.75	20.99	21.09		
100	QPSK	135	0	20.80	21.06	21.00		
100	QPSK	135	69	20.85	21.13	21.11	22.0	0.0
100	QPSK	135	138	20.80	21.10	21.08		
100	QPSK	270	0	20.83	21.11	21.09	22.0	0.0
100	16QAM	1	1	20.75	21.02	21.03	22.0	0.0
100	16QAM	1	1	20.78	21.05	21.04	22.0	0.0
100	16QAM	1	1	20.79	21.00	21.00	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63968	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	63934	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	63900	64000	64000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	63866	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	63834	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	63800	64000	64000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	63768	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
25	QPSK	1	1	63734	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	63700	64000	64000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	63666	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	63634	64000	64066	Tune-up Int. (dBm)	MPR (dB)

### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. @60000	Power Middle Ch. Freq. @60000	Power High Ch. Freq. @60000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.78	23.84	23.82		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.83	23.77		
100	PI2 BPSK	135	0	23.85	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.79	23.88	23.79		
100	PI2 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.88	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.85	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.68	23.82	23.80	25.0	0.0
100	16QAM	1	1	23.80	23.85	23.80	25.0	0.0
100	16QAM	1	1	23.70	23.86	23.73	25.0	0.0
100	16QAM	1	1	23.78	23.77	23.79	25.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63731	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	63700	64000	64000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	63668	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	63634	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	63600	64000	64000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	63568	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	63534	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
25	QPSK	1	1	63500	64000	64000	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	63468	64000	65232	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	63434	64000	64066	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	63400	64000	64000	Tune-up Int. (dBm)	MPR (dB)







### Par27O n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.02	23.24	23.42		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.93	23.77		
100	PI2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	23.68	23.70		
100	PI2 BPSK	270	0	23.70	23.80	23.65	25.0	0.0
100	QPSK	1	1	23.97	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.95	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.66	23.68	23.65	25.0	0.0
100	ISDM	1	1	23.80	23.95	23.80	25.0	0.0
100	ISDM	1	1	23.70	23.95	23.73	25.0	0.0
100	ISDM	1	1	23.83	23.77	23.70	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.76	24.01	23.95	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.76	23.97	23.91	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.90	24.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.79	24.06	24.07	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.99	24.05	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.78	24.02	23.95	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633000	Power High Ch. / Freq. 633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.23				
100	PI2 BPSK	1	137	23.45			25.0	0.0
100	PI2 BPSK	1	271	23.64				
100	PI2 BPSK	135	0	23.36			25.0	0.0
100	PI2 BPSK	135	69	23.47			25.0	0.0
100	PI2 BPSK	135	138	23.48			25.0	0.0
100	PI2 BPSK	270	0	23.47			25.0	0.0
100	QPSK	1	1	23.65				
100	QPSK	1	137	23.34			25.0	0.0
100	QPSK	1	271	23.64				
100	QPSK	135	0	23.47				
100	QPSK	135	69	23.48			25.0	0.0
100	QPSK	135	138	23.44				
100	QPSK	270	0	23.29			25.0	0.0
100	16QAM	1	1	23.34			25.0	0.0
100	16QAM	1	1	23.55			25.0	0.0
100	16QAM	1	1	22.29			25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.37	23.11	23.11	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.35	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.43	23.32	23.41	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.48	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



ENDC Mode State 10

Table for Band 2\_Ant 1. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power (Low, High, Max), Power (Ch. / Freq.), Turnup time (s), and MPR (dB). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 52QAM across different bandwidths and power levels.

Table for Band 2\_Ant 2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power (Low, High, Max), Power (Ch. / Freq.), Turnup time (s), and MPR (dB). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 52QAM across different bandwidths and power levels.

Table for Band 2\_Ant 7. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power (Low, High, Max), Power (Ch. / Freq.), Turnup time (s), and MPR (dB). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 52QAM across different bandwidths and power levels.











n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			1890	1890	1900			
20	Pi/2 BPSK	1	1	23.92	23.92	23.92	25.0	0.0	
20	Pi/2 BPSK	1	53	23.80	23.88	23.73	25.0	0.0	
20	Pi/2 BPSK	1	104	23.72	23.86	23.72	25.0	0.0	
20	Pi/2 BPSK	50	0	23.92	23.91	23.92	24.5	0.5	
20	Pi/2 BPSK	50	28	23.72	23.82	23.88	25.0	0.0	
20	Pi/2 BPSK	50	56	23.72	23.78	23.73	24.5	0.5	
20	Pi/2 BPSK	100	0	23.72	23.30	23.15	24.5	0.5	
20	QPSK	1	1	23.92	23.92	23.92			
20	QPSK	1	53	23.78	23.94	23.80	25.0	0.0	
20	QPSK	1	104	23.85	23.96	23.91			
20	QPSK	50	0	22.96	23.98	23.92	24.0	1.0	
20	QPSK	50	28	23.80	23.88	23.91	25.0	0.0	
20	QPSK	50	56	23.60	23.21	23.08	24.0	1.0	
20	QPSK	100	0	22.96	23.96	22.90	24.0	1.0	
20	16QAM	1	1	22.77	22.92	22.83	24.0	1.0	
20	16QAM	1	1	21.48	21.56	21.48	22.5	2.5	
20	256QAM	1	1	19.48	19.53	19.44	20.5	4.5	
Channel									
	Frequency (MHz)			1967.5	1860	1902.5			
15	QPSK	1	1	23.80	23.91	23.85	25.0	0.0	
Channel									
	Frequency (MHz)			1950	1860	1905			
10	QPSK	1	1	23.80	23.80	23.80	25.0	0.0	
Channel									
	Frequency (MHz)			1950.0	1860.0	1815.0			
5	QPSK	1	1	23.52	23.52	23.54	23.0	0.0	

n2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			1900	1900	1900			
20	Pi/2 BPSK	1	1	22.00	22.03	21.94	23.0	0.0	
20	Pi/2 BPSK	1	53	21.91	21.92	21.91	23.0	0.0	
20	Pi/2 BPSK	1	104	21.87	21.87	21.83	23.0	0.0	
20	Pi/2 BPSK	50	0	21.86	21.87	21.88	23.0	0.0	
20	Pi/2 BPSK	50	28	21.98	22.00	21.83	23.0	0.0	
20	Pi/2 BPSK	50	56	21.90	21.93	21.90	23.0	0.0	
20	Pi/2 BPSK	100	0	21.95	21.98	21.91	23.0	0.0	
20	QPSK	1	1	22.01	22.02	22.01			
20	QPSK	1	53	21.91	21.97	21.88	23.0	0.0	
20	QPSK	1	104	21.98	21.93	21.90			
20	QPSK	50	0	21.92	21.89	21.88	23.0	0.0	
20	QPSK	50	28	22.00	22.03	21.98	23.0	0.0	
20	QPSK	50	56	21.88	21.88	21.85	23.0	0.0	
20	QPSK	100	0	21.88	22.00	21.95	23.0	0.0	
20	16QAM	1	1	21.92	21.94	21.78	23.0	0.0	
20	16QAM	1	1	21.48	21.56	21.48	22.5	2.5	
20	256QAM	1	1	19.48	19.53	19.44	20.5	2.5	
Channel									
	Frequency (MHz)			1900.0	1800.0	1800.0			
Channel									
	Frequency (MHz)			1907.5	1860	1902.5			
15	QPSK	1	1	21.82	21.84	21.79	23.0	0.0	
Channel									
	Frequency (MHz)			1900.0	1800.0	1800.0			
10	QPSK	1	1	19.55	19.50	19.55	23.0	0.0	
Channel									
	Frequency (MHz)			1900.0	1800.0	1815.0			
5	QPSK	1	1	21.02	21.00	21.04	23.0	0.0	

n2_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			1900	1900	1900			
20	Pi/2 BPSK	1	1	22.93	22.99	22.93	24.5	0.0	
20	Pi/2 BPSK	1	53	22.87	22.83	22.89	24.5	0.0	
20	Pi/2 BPSK	1	104	22.79	22.74	22.73	24.5	0.0	
20	Pi/2 BPSK	50	0	22.28	22.28	22.25	24.0	0.5	
20	Pi/2 BPSK	50	28	22.70	22.84	22.75	24.5	0.0	
20	Pi/2 BPSK	50	56	22.27	22.33	22.16	24.0	0.5	
20	Pi/2 BPSK	100	0	22.17	22.31	22.20	24.0	0.5	
20	QPSK	1	1	22.90	22.90	22.90			
20	QPSK	1	53	22.73	22.88	22.75	24.5	0.0	
20	QPSK	1	104	22.87	22.83	22.74			
20	QPSK	50	0	21.87	21.75	21.90	23.5	1.0	
20	QPSK	50	28	22.78	22.85	22.79	24.5	0.0	
20	QPSK	50	56	21.51	21.67	21.50	23.5	1.0	
20	QPSK	100	0	21.74	21.83	21.76	23.5	1.0	
20	16QAM	1	1	21.48	21.81	21.72	23.5	1.0	
20	16QAM	1	1	20.17	20.32	20.18	22.0	2.5	
20	256QAM	1	1	18.28	18.33	18.22	20.0	4.5	
Channel									
	Frequency (MHz)			1900.0	1800.0	1800.0			
Channel									
	Frequency (MHz)			1907.5	1860	1902.5			
15	QPSK	1	1	22.80	22.83	22.77	24.5	0.0	
Channel									
	Frequency (MHz)			1900.0	1800.0	1800.0			
10	QPSK	1	1	19.55	19.50	19.55	24.5	0.0	
Channel									
	Frequency (MHz)			1900.0	1800.0	1815.0			
5	QPSK	1	1	22.25	22.00	22.25	24.5	0.0	





n5_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166600	167500	167900		
20	PV2 BPSK	1	1	24.5	24.5	24.5	20.0	0.0
20	PV2 BPSK	1	53	24.40	24.47	24.45		
20	PV2 BPSK	1	104	24.27	24.27	24.51		
20	PV2 BPSK	50	0	23.98	24.08	23.92	25.5	0.5
20	PV2 BPSK	50	28	24.47	24.58	24.52	26.0	0.0
20	PV2 BPSK	100	0	23.92	24.08	23.98	25.5	0.5
20	QPSK	1	1	24.58	24.68	24.62		
20	QPSK	1	53	24.50	24.63	24.58	26.0	0.0
20	QPSK	1	104	24.50	24.83	24.51		
20	QPSK	50	0	23.92	23.77	23.85	25.0	1.0
20	QPSK	50	28	24.55	24.62	24.52	26.0	0.0
20	QPSK	50	56	23.70	23.78	23.87	25.0	1.0
20	QPSK	100	0	23.88	23.73	23.58	25.0	1.0
20	16QAM	1	1	23.82	23.88	23.98	25.0	1.0
20	16QAM	1	1	22.18	22.28	22.15	23.5	2.5
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency (MHz)				168500	167500	166500		
15	QPSK	1	1	24.47	24.52	24.48	26.0	0.0
Channel								
Frequency (MHz)				169	169	169		
10	QPSK	1	1	24.5	24.5	24.5	26.0	0.0
Channel								
Frequency (MHz)				168500	167500	166500		
5	QPSK	1	1	24.45	24.50	24.47	26.0	0.0

n5_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)				166600	167500	167900		
20	PV2 BPSK	1	1	24.5	24.5	24.5	20.0	0.0
20	PV2 BPSK	1	53	24.40	24.47	24.45		
20	PV2 BPSK	1	104	24.27	24.27	24.51		
20	PV2 BPSK	50	0	23.98	24.08	23.92	25.0	0.5
20	PV2 BPSK	50	28	24.47	24.58	24.52	26.0	0.0
20	PV2 BPSK	100	0	23.92	24.08	23.98	25.5	0.5
20	QPSK	1	1	24.58	24.68	24.62		
20	QPSK	1	53	24.50	24.63	24.58	26.0	0.0
20	QPSK	1	104	24.50	24.83	24.51		
20	QPSK	50	0	23.92	23.77	23.85	25.0	1.0
20	QPSK	50	28	24.55	24.62	24.52	26.0	0.0
20	QPSK	50	56	23.70	23.78	23.87	25.0	1.0
20	QPSK	100	0	23.88	23.73	23.58	25.0	1.0
20	16QAM	1	1	23.82	23.88	23.98	25.0	1.0
20	16QAM	1	1	22.18	22.28	22.15	23.5	2.5
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency (MHz)				168500	167500	166500		
15	QPSK	1	1	24.47	24.52	24.48	26.0	0.0
Channel								
Frequency (MHz)				169	169	169		
10	QPSK	1	1	24.5	24.5	24.5	26.0	0.0
Channel								
Frequency (MHz)				168500	167500	166500		
5	QPSK	1	1	24.45	24.50	24.47	26.0	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								
Frequency (MHz)				566000	567000	516000		
40	PV2 BPSK	1	1	23.78	23.82	23.88	25.0	0.0
40	PV2 BPSK	1	108	23.70	23.82	23.88		
40	PV2 BPSK	1	214	23.74	23.85	23.75		
40	PV2 BPSK	108	0	23.27	23.32	23.19	24.5	0.5
40	PV2 BPSK	108	54	23.72	23.80	23.71	25.0	0.0
40	PV2 BPSK	108	108	23.15	23.30	23.18	24.5	0.5
40	PV2 BPSK	216	0	23.19	23.33	23.18		
40	QPSK	1	1	23.80	23.92	23.90		
40	QPSK	1	108	23.74	23.83	23.78	25.0	0.0
40	QPSK	1	214	23.88	23.80	23.88		
40	QPSK	108	0	22.99	23.05	22.98	24.0	1.0
40	QPSK	108	54	23.71	23.83	23.88	25.0	0.0
40	QPSK	108	108	23.65	23.15	23.68	24.0	1.0
40	QPSK	216	0	22.90	23.03	22.88	24.0	1.0
40	16QAM	1	1	22.98	23.01	22.93	24.0	1.0
40	16QAM	1	1	21.41	21.58	21.44	23.5	2.5
40	256QAM	1	1	19.45	19.57	19.44	20.5	4.5
Channel								
Frequency (MHz)				563000	563000	563000		
30	QPSK	1	1	23.78	23.87	23.78	25.0	0.0
Channel								
Frequency (MHz)				565000	565000	565000		
20	QPSK	1	1	23.73	23.73	23.80	23.0	0.0
Channel								
Frequency (MHz)				563000	563000	563000		
20	QPSK	1	1	23.65	23.85	23.91	25.0	0.0
Channel								
Frequency (MHz)				563000	563000	563000		
15	QPSK	1	1	23.65	23.84	23.84	25.0	0.0
Channel								
Frequency (MHz)				563000	563000	563000		
10	QPSK	1	1	23.64	23.85	23.78	25.0	0.0
Channel								
Frequency (MHz)				563000	563000	563000		
5	QPSK	1	1	23.70	23.78	23.79	25.0	0.0



n7_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				2520	2530	2500		
40	PB-SSB	1	1	22.75	22.82	22.82	24.0	0.0
40	PB-SSB	1	108	22.83	22.82	22.74	24.0	0.0
40	PB-SSB	1	214	22.75	22.83	22.82	24.0	0.0
40	PB-SSB	108	0	22.82	22.85	22.75	24.0	0.0
40	PB-SSB	108	54	22.75	22.80	22.82	24.0	0.0
40	PB-SSB	108	108	22.85	22.75	22.71	24.0	0.0
40	PB-SSB	216	0	22.72	22.88	22.78	24.0	0.0
40	QPSK	1	1	22.85	22.85	22.85	24.0	0.0
40	QPSK	1	108	22.71	22.82	22.77	24.0	0.0
40	QPSK	1	214	22.88	22.87	22.84	24.0	0.0
40	QPSK	108	0	22.85	22.82	22.78	24.0	0.0
40	QPSK	108	54	22.77	22.83	22.83	24.0	0.0
40	QPSK	108	108	22.88	22.79	22.87	24.0	0.0
40	QPSK	216	0	22.78	22.80	22.80	24.0	0.0
40	16QAM	1	1	22.75	22.88	22.73	24.0	0.0
40	16QAM	1	1	22.81	22.85	22.84	22.5	1.5
40	256QAM	1	1	19.45	19.57	19.44	20.5	3.5
Channel								
				25500	25700	25100		
Frequency (MHz)								
				2510	2530	2550		
30	QPSK	1	1	22.84	22.80	22.79	24.0	0.0
Channel								
				25950	26050	25850		
Frequency (MHz)								
				2595	2595	2597.5		
20	QPSK	1	1	22.70	22.70	22.81	24.0	0.0
Channel								
				50500	50700	51000		
Frequency (MHz)								
				5070	5090	5090		
20	QPSK	1	1	22.85	22.85	22.70	24.0	0.0
Channel								
				50950	51000	51000		
Frequency (MHz)								
				5095	5095	5095		
16	QPSK	1	1	22.71	22.81	22.80	24.0	0.0
Channel								
				50900	50900	51000		
Frequency (MHz)								
				5090	5095	5095		
16	QPSK	1	1	22.71	22.85	22.78	24.0	0.0
Channel								
				50950	51000	51000		
Frequency (MHz)								
				5095.0	5100	2697.5		
3	QPSK	1	1	22.75	22.88	22.78	24.0	0.0

n12_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				141500	141600	141700		
Frequency (MHz)								
				707.5	707.5	707.5		
15	PB-SSB	1	1	24.42	24.53	24.52	26.0	0.0
15	PB-SSB	1	40	24.33	24.41	24.40	26.0	0.0
15	PB-SSB	1	77	24.38	24.47	24.45	26.0	0.0
15	PB-SSB	36	0	23.88	23.91	23.90	25.5	0.5
15	PB-SSB	36	22	24.42	24.43	24.40	26.0	0.0
15	PB-SSB	36	43	23.91	23.93	23.88	25.5	0.5
15	PB-SSB	75	0	23.84	23.93	23.90	25.5	0.5
15	QPSK	1	1	24.50	24.50	24.51	26.0	0.0
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.50	24.34	26.0	1.0
15	QPSK	36	0	23.88	23.93	23.97	25.0	1.0
15	QPSK	36	22	24.47	24.52	24.38	26.0	0.0
15	QPSK	36	43	23.89	23.88	23.85	25.0	1.0
15	QPSK	75	0	23.90	23.98	23.93	25.0	1.0
15	16QAM	1	1	23.42	23.55	23.46	25.0	1.0
15	16QAM	1	1	22.92	22.93	22.97	23.5	2.5
15	256QAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
				141500	141700	142000		
Frequency (MHz)								
				704	707.5	711		
10	QPSK	1	1	24.42	24.44	24.45	26.0	0.0
Channel								
				141500	141500	142000		
Frequency (MHz)								
				707.5	707.5	711.5		
5	QPSK	1	1	24.45	24.40	24.35	26.0	0.0

n12_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				141500	141600	141700		
Frequency (MHz)								
				707.5	707.5	707.5		
15	PB-SSB	1	1	24.43	24.53	24.50	26.0	0.0
15	PB-SSB	1	40	24.33	24.41	24.40	26.0	0.0
15	PB-SSB	1	77	24.38	24.47	24.45	26.0	0.0
15	PB-SSB	36	0	23.88	23.91	23.90	25.5	0.5
15	PB-SSB	36	22	24.42	24.43	24.40	26.0	0.0
15	PB-SSB	36	43	23.91	23.93	23.88	25.5	0.5
15	PB-SSB	75	0	23.84	23.93	23.90	25.5	0.5
15	QPSK	1	1	24.50	24.50	24.51	26.0	0.0
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.50	24.34	26.0	1.0
15	QPSK	36	0	23.88	23.93	23.97	25.0	1.0
15	QPSK	36	22	24.47	24.52	24.38	26.0	0.0
15	QPSK	36	43	23.89	23.88	23.85	25.0	1.0
15	QPSK	75	0	23.90	23.98	23.93	25.0	1.0
15	16QAM	1	1	23.42	23.55	23.46	25.0	1.0
15	16QAM	1	1	22.92	22.93	22.97	23.5	2.5
15	256QAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
				141500	141700	142000		
Frequency (MHz)								
				704	707.5	711		
10	QPSK	1	1	24.42	24.44	24.45	26.0	0.0
Channel								
				141500	141500	142000		
Frequency (MHz)								
				707.5	707.5	711.5		
5	QPSK	1	1	24.45	24.40	24.35	26.0	0.0



n25_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. [W]	Power Middle Ch. F. [W]	Power High Ch. F. [W]	Tune-up limit [dBm]	MPR [dB]
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	24.25	24.45	24.41	25.0	0.0
40	PV2 BPSK	1	108	24.27	24.38	24.32	25.0	0.0
40	PV2 BPSK	1	214	24.26	24.42	24.32	25.0	0.0
40	PV2 BPSK	108	0	23.87	23.95	23.86	24.5	0.5
40	PV2 BPSK	108	54	24.25	24.40	24.33	25.0	0.0
40	PV2 BPSK	108	108	23.85	23.92	23.83	24.5	0.5
40	PV2 BPSK	216	0	23.83	23.93	23.81	24.5	0.5
40	QPSK	1	1	24.43	24.53	24.48	25.0	0.0
40	QPSK	1	108	24.31	24.47	24.31	25.0	0.0
40	QPSK	1	214	24.34	24.45	24.29	25.0	0.0
40	QPSK	108	0	23.78	23.83	23.82	24.0	1.0
40	QPSK	108	54	24.33	24.45	24.34	25.0	0.0
40	QPSK	108	108	23.72	23.74	23.72	24.0	1.0
40	QPSK	216	0	23.71	23.78	23.72	24.0	1.0
40	16QAM	1	1	23.28	23.31	23.28	24.0	1.0
40	16QAM	1	1	21.86	21.82	21.72	22.5	2.5
40	256QAM	1	1	19.89	19.78	19.67	20.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.52	18.52	19.00	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.85	24.87	24.88	25.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	18.38	18.48	18.35	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.500	17.600	18.100	20.0	0.0
Channel								
Frequency (MHz)								
16	QPSK	1	1	14.38	14.47	14.38	20.0	0.0
Channel								
Frequency (MHz)								
16	QPSK	1	1	17.500	17.600	18.100	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.34	24.39	24.37	25.0	0.0
Channel								
Frequency (MHz)								
1	QPSK	1	1	18.20	18.20	18.120	20.0	0.0

n25_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. [W]	Power Middle Ch. F. [W]	Power High Ch. F. [W]	Tune-up limit [dBm]	MPR [dB]
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	22.43	22.53	22.45	23.0	0.0
40	PV2 BPSK	1	108	22.32	22.40	22.35	23.0	0.0
40	PV2 BPSK	1	214	22.34	22.44	22.34	23.0	0.0
40	PV2 BPSK	108	0	22.36	22.34	22.28	23.0	0.0
40	PV2 BPSK	108	54	22.41	22.50	22.43	23.0	0.0
40	PV2 BPSK	108	108	22.38	22.44	22.31	23.0	0.0
40	PV2 BPSK	216	0	22.38	22.48	22.40	23.0	0.0
40	QPSK	1	1	22.45	22.55	22.48	23.0	0.0
40	QPSK	1	108	22.32	22.39	22.32	23.0	0.0
40	QPSK	1	214	22.36	22.45	22.34	23.0	0.0
40	QPSK	108	0	22.28	22.29	22.23	23.0	0.0
40	QPSK	108	54	22.42	22.53	22.45	23.0	0.0
40	QPSK	108	108	22.28	22.27	22.21	23.0	0.0
40	QPSK	216	0	22.45	22.55	22.43	23.0	0.0
40	16QAM	1	1	21.52	21.30	21.22	22.0	0.0
40	16QAM	1	1	21.86	21.82	21.72	22.5	2.5
40	256QAM	1	1	19.89	19.78	19.67	20.5	2.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.55	18.52	19.00	20.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	18.23	18.25	18.25	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.200	17.300	18.000	20.0	0.0
Channel								
Frequency (MHz)								
16	QPSK	1	1	14.38	14.47	14.38	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.40	22.50	22.39	23.0	0.0
Channel								
Frequency (MHz)								
1	QPSK	1	1	22.31	22.44	22.32	23.0	0.0

n25_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. [W]	Power Middle Ch. F. [W]	Power High Ch. F. [W]	Tune-up limit [dBm]	MPR [dB]
Channel								
Frequency (MHz)								
40	PV2 BPSK	1	1	22.21	22.30	22.22	23.0	0.0
40	PV2 BPSK	1	108	22.78	22.89	22.81	24.5	0.0
40	PV2 BPSK	1	214	22.83	22.86	22.83	24.5	0.0
40	PV2 BPSK	108	0	22.29	22.34	22.42	24.0	0.5
40	PV2 BPSK	108	54	22.82	22.91	22.82	24.5	0.0
40	PV2 BPSK	108	108	22.27	22.45	22.39	24.0	0.5
40	PV2 BPSK	216	0	22.27	22.40	22.35	24.0	0.5
40	QPSK	1	1	22.95	23.03	22.93	24.0	0.0
40	QPSK	1	108	22.79	22.88	22.73	24.5	0.0
40	QPSK	1	214	22.80	22.89	22.82	24.5	0.0
40	QPSK	108	0	21.88	21.81	21.78	23.5	1.0
40	QPSK	108	54	22.79	22.85	22.74	24.5	1.0
40	QPSK	108	108	21.83	21.73	21.81	23.5	1.0
40	QPSK	216	0	21.88	21.83	21.78	23.5	1.0
40	16QAM	1	1	21.71	21.81	21.75	23.5	1.0
40	16QAM	1	1	20.21	20.38	20.20	22.0	2.5
40	256QAM	1	1	18.24	18.33	18.20	20.0	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.28	18.21	18.88	20.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	18.14	18.21	18.20	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.100	17.200	18.000	20.0	0.0
Channel								
Frequency (MHz)								
16	QPSK	1	1	14.38	14.47	14.38	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.81	22.89	22.81	24.5	0.0
Channel								
Frequency (MHz)								
1	QPSK	1	1	22.82	22.96	22.81	24.5	0.0



n30_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	18.72	18.72	18.72	0.0
10	PV2 BPSK	1	26	18.67	18.67	18.67	18.0
10	PV2 BPSK	1	50	18.62	18.62	18.62	0.0
10	PV2 BPSK	25	0	18.67	18.67	18.67	18.0
10	PV2 BPSK	25	14	18.67	18.67	18.67	0.0
10	PV2 BPSK	25	27	18.62	18.62	18.62	18.0
10	PV2 BPSK	50	0	18.68	18.68	18.68	0.0
10	QPSK	1	1	18.72	18.72	18.72	0.0
10	QPSK	1	26	18.71	18.71	18.71	18.0
10	QPSK	1	50	18.72	18.72	18.72	0.0
10	QPSK	25	0	18.72	18.72	18.72	18.0
10	QPSK	25	14	18.72	18.72	18.72	0.0
10	QPSK	25	27	18.72	18.72	18.72	18.0
10	QPSK	50	0	18.71	18.71	18.71	0.0
10	16QAM	1	1	18.64	18.64	18.64	18.0
10	16QAM	1	1	18.59	18.59	18.59	0.0
10	256QAM	1	1	18.67	18.67	18.67	18.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	18.54	18.68	18.60	0.0

n30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	18.72	18.72	18.72	0.0
10	PV2 BPSK	1	26	18.67	18.67	18.67	18.0
10	PV2 BPSK	1	50	18.62	18.62	18.62	0.0
10	PV2 BPSK	25	0	18.67	18.67	18.67	18.0
10	PV2 BPSK	25	14	18.67	18.67	18.67	0.0
10	PV2 BPSK	25	27	18.62	18.62	18.62	18.0
10	PV2 BPSK	50	0	18.68	18.68	18.68	0.0
10	QPSK	1	1	18.72	18.72	18.72	0.0
10	QPSK	1	26	18.71	18.71	18.71	18.0
10	QPSK	1	50	18.72	18.72	18.72	0.0
10	QPSK	25	0	18.72	18.72	18.72	18.0
10	QPSK	25	14	18.72	18.72	18.72	0.0
10	QPSK	25	27	18.72	18.72	18.72	18.0
10	QPSK	50	0	18.71	18.71	18.71	0.0
10	16QAM	1	1	18.64	18.64	18.64	18.0
10	16QAM	1	1	18.59	18.59	18.59	0.0
10	256QAM	1	1	18.67	18.67	18.67	18.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	18.54	18.68	18.60	0.0

n30_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	22.72	22.72	22.72	0.0
10	PV2 BPSK	1	26	22.67	22.67	22.67	24.5
10	PV2 BPSK	1	50	22.72	22.72	22.72	0.0
10	PV2 BPSK	25	0	22.67	22.67	22.67	24.0
10	PV2 BPSK	25	14	22.67	22.67	22.67	0.0
10	PV2 BPSK	25	27	22.62	22.62	22.62	24.0
10	PV2 BPSK	50	0	22.20	22.20	22.20	0.0
10	QPSK	1	1	22.72	22.72	22.72	0.0
10	QPSK	1	26	22.71	22.71	22.71	24.5
10	QPSK	1	50	22.72	22.72	22.72	0.0
10	QPSK	25	0	22.72	22.72	22.72	23.5
10	QPSK	25	14	22.72	22.72	22.72	0.0
10	QPSK	25	27	22.72	22.72	22.72	23.5
10	QPSK	50	0	22.68	22.68	22.68	0.0
10	16QAM	1	1	22.58	22.58	22.58	23.5
10	16QAM	1	1	22.11	22.11	22.11	0.0
10	256QAM	1	1	22.13	22.13	22.13	23.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.73	22.78	22.85	0.0



### n66\_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.		
Channel								
				34600	34600	36000		
Frequency (MHz)								
40	P12 BPSK	1	1	1730	1745	1760	25.0	0.0
40	P12 BPSK	1	108	24.25	24.25	24.34		
40	P12 BPSK	1	214	24.26	24.40	24.34		
40	P12 BPSK	108	0	23.87	23.98	23.84	24.5	0.5
40	P12 BPSK	108	54	24.30	24.45	24.39	25.0	0.0
40	P12 BPSK	108	108	23.95	23.95	23.81	24.5	0.5
40	QPSK	1	1	21.48	21.53	21.48		
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0
40	QPSK	1	214	24.31	24.43	24.33		
40	QPSK	108	0	23.32	23.43	23.38	24.0	1.0
40	QPSK	108	54	24.31	24.39	24.25	25.0	0.0
40	QPSK	108	108	23.28	23.32	23.21	24.0	1.0
40	QPSK	216	0	23.12	23.28	23.19	24.0	1.0
40	16QAM	1	1	23.23	23.33	23.29	24.0	1.0
40	16QAM	1	1	21.86	21.89	21.77	22.5	2.5
40	256QAM	1	1	19.81	19.88	19.82	20.5	4.5
Channel								
				1750	1765	1780		
Frequency (MHz)								
30	QPSK	1	1	24.97	24.98	24.97	25.0	0.0
Channel								
				34500	34500	35000		
Frequency (MHz)								
20	QPSK	1	1	1722.5	1745	1737.5		
Channel								
				34400	34600	34600	Turn-up limit (dBm)	MPR
Frequency (MHz)								
20	QPSK	1	1	1729	1745	1745		
Channel								
				34500	34600	34600	Turn-up limit (dBm)	MPR
Frequency (MHz)								
16	QPSK	1	1	24.29	24.43	24.33	25.0	0.0
Channel								
				34300	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
16	QPSK	1	1	24.20	24.48	24.40	25.0	0.0
Channel								
				34500	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
1	QPSK	1	1	1712.5	1745	1737.5	25.0	0.0

### n66\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.		
Channel								
				34600	34600	36000		
Frequency (MHz)								
40	P12 BPSK	1	1	1746	1745	1760	22.5	0.0
40	P12 BPSK	1	108	21.90	21.99	21.89		
40	P12 BPSK	1	214	21.79	21.84	21.81		
40	P12 BPSK	108	0	21.79	21.88	21.82	22.0	0.0
40	P12 BPSK	108	54	21.83	22.00	21.88	22.5	0.0
40	P12 BPSK	108	108	21.77	21.88	21.83	22.5	0.0
40	P12 BPSK	216	0	21.90	21.98	21.85		
40	QPSK	1	1	21.29	21.35	21.31		
40	QPSK	1	108	21.86	21.89	21.82	22.5	0.0
40	QPSK	1	214	21.85	21.89	21.86		
40	QPSK	108	0	21.84	21.95	21.92	22.5	0.0
40	QPSK	108	54	21.85	22.03	21.89	22.5	0.0
40	QPSK	108	108	21.84	21.93	21.83	22.5	0.0
40	QPSK	216	0	21.81	22.09	21.85	22.5	0.0
40	16QAM	1	1	21.82	21.85	21.85	22.5	0.0
40	16QAM	1	1	21.89	21.89	21.92	22.5	0.0
40	256QAM	1	1	19.81	19.88	19.82	20.5	4.5
Channel								
				35000	35000	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
30	QPSK	1	1	21.62	21.80	21.88	22.5	0.0
Channel								
				34600	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
20	QPSK	1	1	1723.5	1745	1737.5		
Channel								
				34400	34600	34600	Turn-up limit (dBm)	MPR
Frequency (MHz)								
20	QPSK	1	1	1729	1745	1745		
Channel								
				34500	34600	34600	Turn-up limit (dBm)	MPR
Frequency (MHz)								
16	QPSK	1	1	21.90	22.09	21.93	22.0	0.0
Channel								
				34300	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
10	QPSK	1	1	21.91	21.89	21.88	22.5	0.0
Channel								
				34500	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
1	QPSK	1	1	21.93	21.83	21.85	22.5	0.0

### n66\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.		
Channel								
				34600	34600	36000		
Frequency (MHz)								
40	P12 BPSK	1	1	1750	1745	1760	22.5	0.0
40	P12 BPSK	1	108	22.72	22.92	22.79		
40	P12 BPSK	1	214	22.72	22.83	22.79		
40	P12 BPSK	108	0	22.19	22.32	22.17	24.0	0.5
40	P12 BPSK	108	54	22.78	22.83	22.76	24.5	0.0
40	P12 BPSK	108	108	22.25	22.35	22.30		
40	P12 BPSK	216	0	22.16	22.30	22.14	24.0	0.5
40	QPSK	1	1	22.92	22.95	22.98		
40	QPSK	1	108	22.82	22.88	22.83	24.5	0.0
40	QPSK	1	214	22.84	22.92	22.78		
40	QPSK	108	0	21.79	21.82	21.82	23.5	1.0
40	QPSK	108	54	22.74	22.80	22.76	24.5	0.0
40	QPSK	108	108	21.65	21.73	21.61	23.5	1.0
40	QPSK	216	0	21.79	21.88	21.84	23.5	1.0
40	16QAM	1	1	21.76	21.90	21.78	23.5	1.0
40	16QAM	1	1	20.31	20.42	20.37	22.0	2.5
40	256QAM	1	1	18.27	18.35	18.20	20.0	4.5
Channel								
				34500	34500	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
30	QPSK	1	1	22.85	22.89	22.78	24.5	0.0
Channel								
				34500	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
20	QPSK	1	1	1723.5	1745	1737.5		
Channel								
				34400	34600	34600	Turn-up limit (dBm)	MPR
Frequency (MHz)								
20	QPSK	1	1	1729	1745	1745		
Channel								
				34500	34600	34600	Turn-up limit (dBm)	MPR
Frequency (MHz)								
15	QPSK	1	1	22.81	22.84	22.83	24.5	0.0
Channel								
				34300	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
10	QPSK	1	1	22.85	22.80	22.82	24.5	0.0
Channel								
				34500	34600	35000	Turn-up limit (dBm)	MPR
Frequency (MHz)								
1	QPSK	1	1	1713.5	1745	1737.5	24.5	0.0



n71_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Take-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			156600	156700	157600			
20	PI2 BPSK	1	1	24.43	24.43	24.55			
20	PI2 BPSK	1	53	24.37	24.40	24.49	20.0	0.0	
20	PI2 BPSK	1	104	24.31	24.32	24.47			
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5	
20	PI2 BPSK	50	28	24.35	24.54	24.44	20.0	0.0	
20	PI2 BPSK	50	56	23.79	23.97	23.93			
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5	
20	QPSK	1	1	24.46	24.53	24.59			
20	QPSK	1	53	24.46	24.53	24.46	20.0	0.0	
20	QPSK	1	104	24.46	24.56	24.51			
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0	
20	QPSK	50	28	24.46	24.54	24.39	20.0	0.0	
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0	
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0	
20	16QAM	1	1	23.38	23.52	23.38	25.0	1.0	
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5	
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5	
Channel									
	Frequency (MHz)			157100	157200	157300	Take-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	19.73	19.83	19.72	21.5	4.5	
Channel									
	Frequency (MHz)			157600	157700	157800	Take-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	24.43	24.43	24.42	20.0	0.0	
Channel									
	Frequency (MHz)			158100	158200	158300	Take-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	24.43	24.43	24.51	20.0	0.0	
Channel									
	Frequency (MHz)			158500	158600	158700	Take-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	24.34	24.34	24.51	20.0	0.0	

n71_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Take-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			158600	158700	159600			
20	PI2 BPSK	1	1	24.43	24.43	24.55			
20	PI2 BPSK	1	53	24.37	24.40	24.49	20.0	0.0	
20	PI2 BPSK	1	104	24.31	24.32	24.47			
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5	
20	PI2 BPSK	50	28	24.35	24.54	24.44	20.0	0.0	
20	PI2 BPSK	50	56	23.79	23.97	23.93			
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5	
20	QPSK	1	1	24.46	24.53	24.59			
20	QPSK	1	53	24.46	24.53	24.46	20.0	0.0	
20	QPSK	1	104	24.46	24.56	24.51			
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0	
20	QPSK	50	28	24.46	24.54	24.39	20.0	0.0	
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0	
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0	
20	16QAM	1	1	23.38	23.52	23.38	25.0	1.0	
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5	
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5	
Channel									
	Frequency (MHz)			159100	159200	159300	Take-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	19.73	19.83	19.72	21.5	4.5	
Channel									
	Frequency (MHz)			159600	159700	159800	Take-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	24.43	24.43	24.42	20.0	0.0	
Channel									
	Frequency (MHz)			160100	160200	160300	Take-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	24.43	24.43	24.51	20.0	0.0	
Channel									
	Frequency (MHz)			160500	160600	160700	Take-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	24.34	24.34	24.51	20.0	0.0	



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	20.55	21.02	21.05			
100	Pi2 BPSK	1	137	20.90	21.00	20.99	22.5	0.0	
100	Pi2 BPSK	1	271	20.90	20.93	20.93			
100	Pi2 BPSK	135	0	20.81	20.99	20.90	22.5	0.0	
100	Pi2 BPSK	135	69	20.93	21.05	21.03	22.5	0.0	
100	Pi2 BPSK	135	138	20.80	20.90	20.98	22.5	0.0	
100	Pi2 BPSK	270	0	20.90	21.03	21.01			
100	QPSK	1	1	20.98	21.11	21.08			
100	QPSK	1	137	20.92	21.02	21.01	22.5	0.0	
100	QPSK	1	271	20.84	21.03	21.03			
100	QPSK	135	0	20.86	21.00	20.95			
100	QPSK	135	69	20.95	21.05	21.05	22.5	0.0	
100	QPSK	135	138	20.89	20.95	20.95			
100	QPSK	270	0	20.93	21.05	21.03	22.5	0.0	
100	16QAM	1	1	20.84	20.96	21.02	22.5	0.0	
100	64QAM	1	1	20.91	21.00	20.97	22.5	0.0	
100	256QAM	1	1	20.84	21.05	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.58	20.95	20.98	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.84	20.99	21.01	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.87	20.96	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.83	20.96	21.03	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.83	21.03	20.97	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.85	21.03	20.95	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.90	21.04	20.98	22.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.84	20.95	20.98	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.82	20.95	20.98	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.87	21.01	21.01	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.91	20.97	21.00	22.5	0.0	

n41_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	21.53	22.03	22.03			
100	Pi2 BPSK	1	137	21.85	21.98	21.91	23.5	0.0	
100	Pi2 BPSK	1	271	21.82	21.97	21.93			
100	Pi2 BPSK	135	0	21.76	21.90	21.92	23.5	0.0	
100	Pi2 BPSK	135	69	21.90	22.05	22.01	23.5	0.0	
100	Pi2 BPSK	135	138	21.77	21.99	21.85			
100	Pi2 BPSK	270	0	21.88	22.01	21.98			
100	QPSK	1	1	21.95	22.10	22.06			
100	QPSK	1	137	21.82	22.02	21.93	23.5	0.0	
100	QPSK	1	271	21.83	21.96	22.00			
100	QPSK	135	0	21.86	22.00	21.94			
100	QPSK	135	69	21.92	22.07	22.03	23.5	0.0	
100	QPSK	135	138	21.87	21.96	21.93			
100	QPSK	270	0	21.90	22.03	22.00	23.5	0.0	
100	16QAM	1	1	21.88	21.99	21.92	23.5	0.0	
100	64QAM	1	1	21.90	22.00	21.95	23.5	0.0	
100	256QAM	1	1	21.86	21.92	21.85	23.0	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.50	22.04	22.00	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.82	21.94	21.97	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.79	22.04	21.96	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.82	22.01	21.94	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.85	22.04	21.99	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.88	21.99	22.01	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.80	21.96	21.93	23.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.88	22.00	22.00	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.85	21.94	21.94	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.88	21.97	21.97	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.79	22.00	21.92	23.5	0.0	



### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.25	20.13	20.10		
100	P12 BPSK	1	137	19.69	20.03	20.02	21.0	0.0
100	P12 BPSK	1	271	19.73	20.06	19.98		
100	P12 BPSK	135	0	19.77	20.00	19.99	21.0	0.0
100	P12 BPSK	135	69	19.82	20.11	20.06	21.0	0.0
100	P12 BPSK	135	138	19.72	20.03	19.97		
100	P12 BPSK	270	0	19.78	20.03	20.03	21.0	0.0
100	QPSK	1	1	19.88	20.15	20.11		
100	QPSK	1	137	19.72	20.03	19.98	21.0	0.0
100	QPSK	1	271	19.75	20.05	19.99		
100	QPSK	135	0	19.76	20.01	19.95		
100	QPSK	135	69	19.85	20.15	20.08	21.0	0.0
100	QPSK	135	138	19.80	19.99	19.94		
100	16QAM	1	1	19.82	20.11	20.05	21.0	0.0
100	16QAM	1	1	19.81	20.07	19.95	21.0	0.0
100	16QAM	1	1	19.82	20.05	19.98	21.0	0.0
100	16QAM	1	1	19.81	19.99	20.04	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.93	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	20.09	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.74	20.10	20.06	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.83	20.01	20.04	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.82	20.00	20.03	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.74	20.07	19.99	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.83	20.10	20.06	21.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.83	20.10	20.05	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.72	19.99	19.95	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.82	20.10	19.96	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.75	19.99	19.99	21.0	0.0

### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.63	19.60	19.60		
100	P12 BPSK	1	137	19.69	19.60	19.60	21.0	0.0
100	P12 BPSK	1	271	19.58	19.58	19.58		
100	P12 BPSK	135	0	19.56	19.56	19.56	21.0	0.0
100	P12 BPSK	135	69	19.60	19.60	19.60	21.0	0.0
100	P12 BPSK	270	0	19.57	19.58	19.58	21.0	0.0
100	QPSK	1	1	19.66	19.66	19.66		
100	QPSK	1	137	19.63	19.63	19.63	21.0	0.0
100	QPSK	1	271	19.60	19.60	19.60		
100	QPSK	135	0	19.61	19.61	19.61		
100	QPSK	135	69	19.62	19.62	19.62	21.0	0.0
100	QPSK	135	138	19.59	19.59	19.59		
100	QPSK	270	0	19.60	19.60	19.60	21.0	0.0
100	16QAM	1	1	19.55	19.55	19.55	21.0	0.0
100	16QAM	1	1	19.56	19.56	19.56	21.0	0.0
100	16QAM	1	1	19.55	19.55	19.55	21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.67	19.58	19.45	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.56	19.58	19.45	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.47	19.53	19.49	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.60	19.55	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.53	19.40	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.53	19.53	19.53	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.47	19.60	19.45	21.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.57	19.60	19.50	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.56	19.61	19.52	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.56	19.61	19.55	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.48	19.53	19.50	21.0	0.0

### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.85	23.84	23.82		
100	P12 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	P12 BPSK	1	271	23.85	23.83	23.77		
100	P12 BPSK	135	0	23.85	23.87	23.81	25.0	0.0
100	P12 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	P12 BPSK	135	138	23.72	23.88	23.75		
100	P12 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.88	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.85	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.68	23.82	23.80	25.0	0.0
100	16QAM	1	1	23.80	23.85	23.80	25.0	0.0
100	16QAM	1	1	23.70	23.86	23.73	25.0	0.0
100	16QAM	1	1	23.75	22.77	22.70	25.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.82	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.70	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.72	23.87	23.83	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.88	24.02	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.73	24.05	24.01	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.95	24.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.75	24.02	23.96	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0





### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.62	23.62	23.62		
100	P12 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	P12 BPSK	1	271	23.84	23.84	23.84		
100	P12 BPSK	135	0	23.36	23.36	23.36	25.0	0.0
100	P12 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	P12 BPSK	135	138	23.48	23.48	23.48	25.0	0.0
100	P12 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.82	23.82	23.82	25.0	0.0
100	QPSK	1	137	23.34	23.34	23.34		
100	QPSK	1	271	23.84	23.84	23.84		
100	QPSK	135	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	135	69	23.45	23.45	23.45	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44	25.0	0.0
100	QPSK	270	0	23.28	23.28	23.28	25.0	0.0
100	16QAM	1	1	23.34	23.34	23.34	25.0	0.0
100	16QAM	1	1	23.93	23.93	23.93	25.0	0.0
100	16QAM	1	1	23.29	23.29	23.29	25.0	2.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.39	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.38	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.42	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.49	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.82	23.84	23.82		
100	P12 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	P12 BPSK	1	271	23.85	23.85	23.77		
100	P12 BPSK	135	0	23.85	23.87	23.81	25.0	0.0
100	P12 BPSK	135	69	23.83	23.89	23.77	25.0	0.0
100	P12 BPSK	135	138	23.79	23.89	23.79	25.0	0.0
100	P12 BPSK	270	0	23.70	23.80	23.69	25.0	0.0
100	QPSK	1	1	23.87	24.13	24.12	25.0	0.0
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.89	23.88		
100	QPSK	135	0	23.70	23.84	23.82	25.0	0.0
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81	25.0	0.0
100	QPSK	270	0	23.66	23.82	23.80	25.0	0.0
100	16QAM	1	1	23.80	23.85	23.80	25.0	0.0
100	16QAM	1	1	23.70	23.85	23.70	25.0	0.0
100	16QAM	1	1	23.29	22.77	22.70	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.06	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.75	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.70	24.01	23.98	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.71	24.02	23.99	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.72	24.06	24.01	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.90	24.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.06	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.70	24.02	23.96	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.52	23.52	23.52		
100	P12 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	P12 BPSK	1	271	23.84	23.84	23.84		
100	P12 BPSK	135	0	23.36	23.36	23.36	25.0	0.0
100	P12 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	P12 BPSK	135	138	23.48	23.48	23.48	25.0	0.0
100	P12 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.82	23.82	23.82	25.0	0.0
100	QPSK	1	137	23.34	23.34	23.34		
100	QPSK	1	271	23.84	23.84	23.84		
100	QPSK	135	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	135	69	23.45	23.45	23.45	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44	25.0	0.0
100	QPSK	270	0	23.28	23.28	23.28	25.0	0.0
100	16QAM	1	1	23.34	23.34	23.34	25.0	0.0
100	16QAM	1	1	23.93	23.93	23.93	25.0	0.0
100	16QAM	1	1	23.29	23.29	23.29	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.39	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.38	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.42	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.49	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



### Par27O n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.02	23.24	23.42		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.93	23.77		
100	PI2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	23.68	23.70		
100	PI2 BPSK	270	0	23.70	23.80	23.65	25.0	0.0
100	QPSK	1	1	23.97	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.95	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.66	23.68	23.65	25.0	0.0
100	ISGAM	1	1	23.80	23.95	23.80	25.0	0.0
100	ISGAM	1	1	23.70	23.95	23.73	25.0	0.0
100	ISGAM	1	1	23.83	23.77	23.70	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.76	24.01	23.95	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.76	23.97	23.91	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.90	24.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.01	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.79	24.06	24.01	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.99	24.05	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.78	24.02	23.95	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633000	Power High Ch. / Freq. 633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.25	23.45	23.45		
100	PI2 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	PI2 BPSK	1	271	23.64	23.64	23.64		
100	PI2 BPSK	135	0	23.30	23.30	23.30	25.0	0.0
100	PI2 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	PI2 BPSK	135	138	23.48	23.48	23.48		
100	PI2 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.65	23.65	23.65		
100	QPSK	1	137	23.34	23.34	23.34	25.0	0.0
100	QPSK	1	271	23.64	23.64	23.64		
100	QPSK	135	0	23.47	23.47	23.47		
100	QPSK	135	69	23.48	23.48	23.48	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44		
100	QPSK	270	0	23.29	23.29	23.29	25.0	0.0
100	16QAM	1	1	23.54	23.54	23.54	25.0	0.0
100	16QAM	1	1	23.55	23.55	23.55	25.0	0.0
100	16QAM	1	1	22.99	22.99	22.99	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.37	23.11	23.11	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.35	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.43	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.49	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



ENDC Mode Stage 9

**Band 2\_Ant 1**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turnup time (dBm)	MFR (dB)
20	QPSK	1	0	23.41	23.48	23.48	23.48	25	0
20	QPSK	1	49	23.49	23.50	23.49	23.49	25	0
20	QPSK	1	98	23.51	23.52	23.51	23.51	25	0
20	QPSK	50	0	22.50	22.50	22.50	22.50	24	1
20	QPSK	50	24	22.53	22.56	22.52	22.52	24	1
20	QPSK	50	49	22.55	22.58	22.55	22.55	24	1
20	QPSK	100	0	22.29	22.32	22.27	22.27	24	1
20	16QAM	1	0	22.83	22.83	22.86	22.86	24	1
20	16QAM	1	49	22.72	22.80	22.79	22.79	24	1
20	16QAM	1	99	22.66	22.83	22.81	22.81	24	1
20	16QAM	50	0	21.47	21.58	21.53	21.53	23	2
20	16QAM	50	24	21.48	21.66	21.58	21.58	23	2
20	16QAM	50	49	21.47	21.58	21.54	21.54	23	2
20	16QAM	100	0	21.52	21.64	21.49	21.49	23	2
20	64QAM	1	0	21.70	21.70	21.76	21.76	23	2
20	64QAM	1	49	21.71	21.76	21.80	21.80	23	2
20	64QAM	1	99	21.58	21.86	21.82	21.82	23	2
20	64QAM	50	0	20.51	20.58	20.54	20.54	22	3
20	64QAM	50	24	20.55	20.69	20.59	20.59	22	3
20	64QAM	50	49	20.48	20.57	20.56	20.56	22	3
20	256QAM	1	0	20.53	20.60	20.50	20.50	20	5
20	256QAM	1	49	20.50	20.59	20.54	20.54	20	5
20	256QAM	1	99	18.74	18.76	18.71	18.71	20	5
20	256QAM	1	49	18.58	18.57	18.53	18.53	20	5
20	256QAM	50	24	18.60	18.52	18.49	18.49	20	5
20	256QAM	50	49	18.50	18.52	18.49	18.49	20	5
20	256QAM	50	99	18.52	18.53	18.48	18.48	20	5
20	256QAM	100	0	18.43	18.43	18.47	18.47	20	5

**Band 2\_Ant 2**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turnup time (dBm)	MFR (dB)
20	QPSK	1	0	21.37	21.46	21.33	21.33	23	0
20	QPSK	1	49	21.43	21.49	21.40	21.40	23	0
20	QPSK	1	99	21.43	21.43	21.38	21.38	23	0
20	QPSK	50	0	20.45	20.52	20.42	20.42	22	1
20	QPSK	50	24	20.50	20.55	20.46	20.46	22	1
20	QPSK	50	49	20.49	20.49	20.43	20.43	22	1
20	QPSK	100	0	20.49	20.52	20.45	20.45	22	1
20	16QAM	1	0	20.67	20.71	20.74	20.74	22	1
20	16QAM	1	49	20.70	20.74	20.73	20.73	22	1
20	16QAM	1	99	20.54	20.52	20.54	20.54	22	1
20	16QAM	50	0	19.33	19.47	19.37	19.37	21	2
20	16QAM	50	24	19.39	19.59	19.39	19.39	21	2
20	16QAM	50	49	19.39	19.59	19.40	19.40	21	2
20	16QAM	100	0	19.41	19.49	19.43	19.43	21	2
20	64QAM	1	0	19.59	19.58	19.58	19.58	21	2
20	64QAM	1	49	19.56	19.63	19.59	19.59	21	2
20	64QAM	1	99	19.46	19.51	19.53	19.53	21	2
20	64QAM	50	0	18.45	18.53	18.46	18.46	20	3
20	64QAM	50	24	18.50	18.47	18.40	18.40	20	3
20	64QAM	50	49	18.38	18.43	18.45	18.45	20	3
20	256QAM	1	0	18.38	18.50	18.44	18.44	18	5
20	256QAM	1	49	18.34	18.43	18.43	18.43	18	5
20	256QAM	1	99	16.81	16.84	16.48	16.48	18	5
20	256QAM	1	49	16.50	16.42	16.48	16.48	18	5
20	256QAM	50	24	16.52	16.45	16.48	16.48	18	5
20	256QAM	50	49	16.44	16.41	16.39	16.39	18	5
20	256QAM	50	99	16.46	16.42	16.40	16.40	18	5
20	256QAM	100	0	16.34	16.41	16.47	16.47	18	5

**Band 2\_Ant 7**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turnup time (dBm)	MFR (dB)
20	QPSK	1	0	22.95	22.96	22.86	22.86	24.5	0
20	QPSK	1	49	22.98	23.04	22.94	22.94	24.5	0
20	QPSK	1	99	22.98	23.04	22.94	22.94	24.5	0
20	QPSK	50	0	21.94	21.94	21.94	21.94	23.5	1
20	QPSK	50	24	21.98	22.01	21.96	21.96	23.5	1
20	QPSK	50	49	21.94	21.94	21.93	21.93	23.5	1
20	16QAM	1	0	21.92	21.99	21.99	21.99	23.5	1
20	16QAM	1	49	22.35	22.27	22.28	22.28	23.5	1
20	16QAM	1	99	22.28	22.22	22.22	22.22	23.5	1
20	16QAM	50	0	20.95	20.94	20.97	20.97	22.5	2
20	16QAM	50	24	20.95	20.94	21.00	21.00	22.5	2
20	16QAM	50	49	20.95	20.94	20.97	20.97	22.5	2
20	16QAM	100	0	20.85	20.99	21.00	21.00	22.5	2
20	64QAM	1	0	21.16	21.24	21.10	21.10	22.5	2
20	64QAM	1	49	21.17	21.15	21.09	21.09	22.5	2
20	64QAM	1	99	21.10	21.09	20.99	20.99	22.5	2
20	64QAM	50	0	19.85	19.89	19.92	19.92	21.5	3
20	64QAM	50	24	19.83	19.93	19.99	19.99	21.5	3
20	64QAM	50	49	19.83	19.89	19.96	19.96	21.5	3
20	256QAM	1	0	19.93	19.98	19.96	19.96	19.5	5
20	256QAM	1	49	19.93	19.98	19.96	19.96	19.5	5
20	256QAM	1	99	17.87	17.89	17.88	17.88	19.5	5
20	256QAM	1	49	17.86	17.86	17.86	17.86	19.5	5
20	256QAM	50	24	17.81	17.86	17.86	17.86	19.5	5
20	256QAM	50	49	17.87	17.94	17.81	17.81	19.5	5
20	256QAM	100	0	17.92	17.92	17.92	17.92	19.5	5











n2_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			1890	1890	1900				
20	Pi2 BPSK	1	1	23.92	23.92	23.92	25.0	0.0		
10	Pi2 BPSK	1	53	23.80	23.88	23.73	25.0	0.0		
20	Pi2 BPSK	1	104	23.72	23.86	23.72	25.0	0.0		
20	Pi2 BPSK	50	0	23.92	23.91	23.92	24.5	0.5		
20	Pi2 BPSK	50	28	23.72	23.82	23.88	25.0	0.0		
20	Pi2 BPSK	50	56	23.72	23.78	23.73	24.5	0.5		
10	Pi2 BPSK	100	0	23.72	23.30	23.15	24.5	0.5		
20	QPSK	1	1	23.92	23.92	23.92	25.0	0.0		
20	QPSK	1	53	23.78	23.94	23.80	25.0	0.0		
20	QPSK	1	104	23.85	23.96	23.91	25.0	0.0		
20	QPSK	50	0	22.96	23.98	23.92	24.0	1.0		
10	QPSK	50	28	23.80	23.88	23.91	25.0	0.0		
20	QPSK	50	56	23.60	23.21	23.08	24.0	1.0		
20	QPSK	100	0	22.96	23.96	22.90	24.0	1.0		
20	16QAM	1	1	22.77	22.92	22.83	24.0	1.0		
20	16QAM	1	1	21.48	21.56	21.48	22.5	2.5		
20	256QAM	1	1	19.48	19.53	19.44	20.5	4.5		
Channel										
	Frequency (MHz)			1897.5	1890	1902.5				
15	QPSK	1	1	23.80	23.91	23.85	25.0	0.0		
Channel										
	Frequency (MHz)			1900	1900	1900				
10	QPSK	1	1	23.80	23.80	23.80	25.0	0.0		
Channel										
	Frequency (MHz)			19050	19000	18150				
5	QPSK	1	1	23.52	23.52	23.54	23.0	0.0		

n2_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			1900	1900	1900				
20	Pi2 BPSK	1	1	22.00	22.03	21.94	23.0	0.0		
10	Pi2 BPSK	1	53	21.91	21.92	21.91	23.0	0.0		
20	Pi2 BPSK	1	104	21.87	21.87	21.83	23.0	0.0		
20	Pi2 BPSK	50	0	21.88	21.87	21.88	23.0	0.0		
20	Pi2 BPSK	50	28	21.98	22.00	21.83	23.0	0.0		
20	Pi2 BPSK	50	56	21.90	21.93	21.90	23.0	0.0		
10	Pi2 BPSK	100	0	21.95	21.98	21.91	23.0	0.0		
20	QPSK	1	1	22.01	22.02	22.00	23.0	0.0		
20	QPSK	1	53	21.91	21.97	21.88	23.0	0.0		
20	QPSK	1	104	21.98	21.93	21.90	23.0	0.0		
20	QPSK	50	0	21.92	21.89	21.88	23.0	0.0		
10	QPSK	50	28	22.00	22.03	21.98	23.0	0.0		
20	QPSK	50	56	21.88	21.88	21.85	23.0	0.0		
20	QPSK	100	0	21.88	22.00	21.95	23.0	0.0		
20	16QAM	1	1	21.92	21.94	21.78	23.0	0.0		
20	16QAM	1	1	21.48	21.56	21.48	22.5	2.5		
20	256QAM	1	1	19.48	19.53	19.44	20.5	2.5		
Channel										
	Frequency (MHz)			1907.5	1900	1902.5				
15	QPSK	1	1	21.80	21.84	21.79	23.0	0.0		
Channel										
	Frequency (MHz)			1905	1900	1905				
10	QPSK	1	1	21.80	21.80	21.80	23.0	0.0		
Channel										
	Frequency (MHz)			19050	19000	18150				
5	QPSK	1	1	21.02	21.02	21.04	21.0	0.0		

n2_Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.				
Channel										
	Frequency (MHz)			1900	1900	1900				
20	Pi2 BPSK	1	1	22.93	22.99	22.92	24.5	0.0		
10	Pi2 BPSK	1	53	22.87	22.83	22.89	24.5	0.0		
20	Pi2 BPSK	1	104	22.79	22.74	22.73	24.5	0.0		
20	Pi2 BPSK	50	0	22.92	22.92	22.92	24.0	0.5		
20	Pi2 BPSK	50	28	22.70	22.84	22.75	24.5	0.0		
20	Pi2 BPSK	50	56	22.77	22.73	22.76	24.0	0.5		
10	Pi2 BPSK	100	0	22.17	22.11	22.20	24.0	0.5		
20	QPSK	1	1	22.90	22.90	22.90	24.5	0.0		
20	QPSK	1	53	22.73	22.88	22.75	24.5	0.0		
20	QPSK	1	104	22.87	22.83	22.74	24.5	0.0		
20	QPSK	50	0	21.87	21.75	21.90	23.5	1.0		
10	QPSK	50	28	22.78	22.85	22.79	24.5	0.0		
20	QPSK	50	56	21.51	21.67	21.50	23.5	1.0		
20	QPSK	100	0	21.74	21.83	21.76	23.5	1.0		
20	16QAM	1	1	21.48	21.81	21.72	23.5	1.0		
20	16QAM	1	1	20.17	20.32	20.18	22.0	2.5		
20	256QAM	1	1	18.28	18.33	18.22	20.0	4.5		
Channel										
	Frequency (MHz)			1907.5	1900	1902.5				
15	QPSK	1	1	22.80	22.83	22.77	24.5	0.0		
Channel										
	Frequency (MHz)			1905	1900	1905				
10	QPSK	1	1	21.74	21.87	21.75	24.5	0.0		
Channel										
	Frequency (MHz)			19050	19000	18150				
5	QPSK	1	1	22.25	22.02	22.25	24.5	0.0		





n5_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166600	167500	167900		
20	PV2 BPSK	1	1	24.5	24.5	24.5	20.0	0.0
20	PV2 BPSK	1	53	24.40	24.47	24.45		
20	PV2 BPSK	1	104	24.27	24.27	24.51		
20	PV2 BPSK	50	0	23.98	24.08	23.92	25.5	0.5
20	PV2 BPSK	50	28	24.47	24.58	24.52	26.0	0.0
20	PV2 BPSK	100	0	23.92	24.08	23.98	25.5	0.5
20	QPSK	1	1	24.58	24.68	24.62		
20	QPSK	1	53	24.50	24.63	24.58	26.0	0.0
20	QPSK	1	104	24.50	24.63	24.51		
20	QPSK	50	0	23.92	23.77	23.85	25.0	1.0
20	QPSK	50	28	24.55	24.62	24.52	26.0	0.0
20	QPSK	50	56	23.70	23.78	23.67	25.0	1.0
20	QPSK	100	0	23.88	23.73	23.58	25.0	1.0
20	16QAM	1	1	23.82	23.88	23.98	25.0	1.0
20	16QAM	1	1	22.18	22.28	22.15	23.5	2.5
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency (MHz)				168500	167500	166500		
15	QPSK	1	1	24.47	24.52	24.48	26.0	0.0
Channel								
Frequency (MHz)				167500	167500	167500		
10	QPSK	1	1	24.5	24.5	24.5	26.0	0.0
Channel								
Frequency (MHz)				165500	167500	169500		
5	QPSK	1	1	24.45	24.50	24.47	26.0	0.0

n5_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)				166600	167500	167900		
20	PV2 BPSK	1	1	24.5	24.5	24.5	20.0	0.0
20	PV2 BPSK	1	53	24.40	24.47	24.45		
20	PV2 BPSK	1	104	24.27	24.27	24.51		
20	PV2 BPSK	50	0	23.98	24.08	23.92	25.0	0.5
20	PV2 BPSK	50	28	24.47	24.58	24.52	26.0	0.0
20	PV2 BPSK	100	0	23.92	24.08	23.98	25.5	0.5
20	QPSK	1	1	24.58	24.68	24.62		
20	QPSK	1	53	24.50	24.63	24.58	26.0	0.0
20	QPSK	1	104	24.50	24.63	24.51		
20	QPSK	50	0	23.92	23.77	23.85	25.0	1.0
20	QPSK	50	28	24.55	24.62	24.52	26.0	0.0
20	QPSK	50	56	23.70	23.78	23.67	25.0	1.0
20	QPSK	100	0	23.88	23.73	23.58	25.0	1.0
20	16QAM	1	1	23.82	23.88	23.98	25.0	1.0
20	16QAM	1	1	22.18	22.28	22.15	23.5	2.5
20	256QAM	1	1	20.34	20.23	20.11	21.5	4.5
Channel								
Frequency (MHz)				168500	167500	166500		
15	QPSK	1	1	24.47	24.52	24.48	26.0	0.0
Channel								
Frequency (MHz)				167500	167500	167500		
10	QPSK	1	1	24.5	24.5	24.5	26.0	0.0
Channel								
Frequency (MHz)				165500	167500	169500		
5	QPSK	1	1	24.45	24.50	24.47	26.0	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								
Frequency (MHz)				566000	567000	516000		
40	PV2 BPSK	1	1	23.78	23.82	23.88	25.0	0.0
40	PV2 BPSK	1	108	23.70	23.82	23.88		
40	PV2 BPSK	1	214	23.74	23.85	23.75		
40	PV2 BPSK	108	0	23.27	23.32	23.19	24.5	0.5
40	PV2 BPSK	108	54	23.72	23.80	23.71	25.0	0.0
40	PV2 BPSK	108	108	23.15	23.30	23.18	24.5	0.5
40	PV2 BPSK	216	0	23.19	23.33	23.18		
40	QPSK	1	1	23.80	23.92	23.90		
40	QPSK	1	108	23.74	23.83	23.78	25.0	0.0
40	QPSK	1	214	23.88	23.80	23.88		
40	QPSK	108	0	22.99	23.05	22.98	24.0	1.0
40	QPSK	108	54	23.71	23.83	23.88	25.0	0.0
40	QPSK	108	108	23.65	23.15	23.68	24.0	1.0
40	QPSK	216	0	22.90	23.03	22.88	24.0	1.0
40	16QAM	1	1	22.98	23.01	22.93	24.0	1.0
40	16QAM	1	1	21.41	21.58	21.44	23.5	2.5
40	256QAM	1	1	19.45	19.57	19.44	20.5	4.5
Channel								
Frequency (MHz)				563000	563000	563000		
30	QPSK	1	1	23.73	23.87	23.78	25.0	0.0
Channel								
Frequency (MHz)				562000	562000	562000		
20	QPSK	1	1	23.73	23.73	23.83	25.0	0.0
Channel								
Frequency (MHz)				561000	567000	516000		
20	QPSK	1	1	23.65	23.85	23.91	25.0	0.0
Channel								
Frequency (MHz)				561000	567000	516000		
15	QPSK	1	1	23.65	23.84	23.84	25.0	0.0
Channel								
Frequency (MHz)				561000	567000	516000		
10	QPSK	1	1	23.64	23.85	23.78	25.0	0.0
Channel								
Frequency (MHz)				560500	561000	516000		
5	QPSK	1	1	23.70	23.78	23.79	25.0	0.0



n7_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel				141000	141000	141000		
Frequency (MHz)				2520	2530	2520		
40	PB2 BPSK	1	1	19.24	19.22	19.22	21.0	0.0
40	PB2 BPSK	1	108	19.74	19.87	19.80	21.0	0.0
40	PB2 BPSK	1	214	19.74	19.87	19.84	21.0	0.0
40	PB2 BPSK	108	0	19.84	19.84	19.77	21.0	0.0
40	PB2 BPSK	108	54	19.80	19.84	19.81	21.0	0.0
40	PB2 BPSK	108	108	19.76	19.88	19.85	21.0	0.0
40	PB2 BPSK	216	0	19.76	19.90	19.81	21.0	0.0
40	QPSK	1	1	19.80	19.88	19.82	21.0	0.0
40	QPSK	1	108	19.84	19.88	19.78	21.0	0.0
40	QPSK	1	214	19.82	19.80	19.86	21.0	0.0
40	QPSK	108	0	19.78	19.87	19.79	21.0	0.0
40	QPSK	108	54	19.89	19.93	19.91	21.0	0.0
40	QPSK	108	108	19.86	19.88	19.82	21.0	0.0
40	QPSK	216	0	19.86	19.91	19.89	21.0	0.0
40	16QAM	1	1	19.84	19.81	19.82	21.0	0.0
40	16QAM	1	1	19.74	19.83	19.77	21.0	0.0
40	256QAM	1	1	19.45	19.57	19.44	20.5	0.5
Channel				141000	141000	141000		
Frequency (MHz)				2510	2530	2555		
30	QPSK	1	1	19.80	19.84	19.82	21.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				2515	2535	2557.5		
20	QPSK	1	1	19.78	19.89	19.78	21.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				2510	2530	2550		
20	QPSK	1	1	19.75	19.95	19.90	21.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				2507.5	2507.5	2507.5		
16	QPSK	1	1	19.77	19.88	19.88	21.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				2506	2506	2506		
16	QPSK	1	1	19.75	19.90	19.78	21.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				2502.5	2502.5	2502.5		
8	QPSK	1	1	19.76	19.81	19.85	21.0	0.0

n12_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel				141000	141000	141000		
Frequency (MHz)				707.5	707.5	707.5		
15	PB2 BPSK	1	1	24.42	24.53	24.50	26.0	0.0
15	PB2 BPSK	1	40	24.33	24.41	24.40	26.0	0.0
15	PB2 BPSK	1	77	24.38	24.47	24.45	26.0	0.0
15	PB2 BPSK	36	0	23.88	23.91	23.90	25.5	0.5
15	PB2 BPSK	36	22	24.42	24.43	24.40	26.0	0.0
15	PB2 BPSK	36	43	23.91	23.93	23.88	25.5	0.5
15	PB2 BPSK	75	0	23.84	23.93	23.90	25.5	0.5
15	QPSK	1	1	24.40	24.48	24.52	26.0	0.0
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.50	24.34	26.0	1.0
15	QPSK	36	0	23.88	23.93	23.97	25.0	1.0
15	QPSK	36	22	24.47	24.52	24.38	26.0	0.0
15	QPSK	36	43	23.95	23.98	23.85	25.0	1.0
15	QPSK	75	0	23.90	23.98	23.93	25.0	1.0
15	16QAM	1	1	23.42	23.55	23.46	25.0	1.0
15	16QAM	1	1	22.92	22.93	22.97	23.5	2.5
15	256QAM	1	1	19.96	20.04	19.94	21.5	4.5
Channel				141000	141000	141000		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	24.42	24.44	24.45	26.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				707.5	707.5	713.5		
5	QPSK	1	1	24.45	24.40	24.36	26.0	0.0

n12_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel				141000	141000	141000		
Frequency (MHz)				707.5	707.5	707.5		
15	PB2 BPSK	1	1	24.48	24.53	24.50	26.0	0.0
15	PB2 BPSK	1	40	24.33	24.41	24.40	26.0	0.0
15	PB2 BPSK	1	77	24.38	24.47	24.45	26.0	0.0
15	PB2 BPSK	36	0	23.88	23.91	23.90	25.5	0.5
15	PB2 BPSK	36	22	24.42	24.43	24.40	26.0	0.0
15	PB2 BPSK	36	43	23.91	23.93	23.88	25.5	0.5
15	PB2 BPSK	75	0	23.84	23.93	23.90	25.5	0.5
15	QPSK	1	1	24.50	24.56	24.52	26.0	0.0
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.50	24.34	26.0	1.0
15	QPSK	36	0	23.88	23.93	23.97	25.0	1.0
15	QPSK	36	22	24.47	24.52	24.38	26.0	0.0
15	QPSK	36	43	23.95	23.98	23.85	25.0	1.0
15	QPSK	75	0	23.90	23.98	23.93	25.0	1.0
15	16QAM	1	1	23.42	23.55	23.46	25.0	1.0
15	16QAM	1	1	22.92	22.93	22.97	23.5	2.5
15	256QAM	1	1	19.96	20.04	19.94	21.5	4.5
Channel				141000	141000	141000		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	24.42	24.44	24.45	26.0	0.0
Channel				141000	141000	141000		
Frequency (MHz)				707.5	707.5	713.5		
5	QPSK	1	1	24.45	24.40	24.36	26.0	0.0



n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. [W]	Power Middle Ch. F. [W]	Power High Ch. F. [W]	Tune-up limit [dBm]	MPR [dB]	
Channel									
Frequency (MHz)							37400	37600	37600
40	PV2 BPSK	1	1	24.5	24.4	24.4	25.0	0.0	
40	PV2 BPSK	1	108	24.7	24.38	24.32	25.0	0.0	
40	PV2 BPSK	1	214	24.9	24.42	24.32	25.0	0.0	
40	PV2 BPSK	108	0	23.87	23.95	23.86	24.5	0.5	
40	PV2 BPSK	108	54	24.25	24.40	24.33	25.0	0.0	
40	PV2 BPSK	108	108	23.95	23.92	23.83	24.5	0.5	
40	PV2 BPSK	216	0	23.83	23.93	23.81	24.5	0.5	
40	QPSK	1	1	24.43	24.53	24.46	25.0	0.0	
40	QPSK	1	108	24.31	24.47	24.31	25.0	0.0	
40	QPSK	1	214	24.34	24.45	24.29	25.0	0.0	
40	QPSK	108	0	23.39	23.33	23.29	24.0	1.0	
40	QPSK	108	54	24.33	24.45	24.34	25.0	0.0	
40	QPSK	108	108	23.22	23.34	23.22	24.0	1.0	
40	QPSK	216	0	23.31	23.38	23.22	24.0	1.0	
40	16QAM	1	1	23.28	23.31	23.29	24.0	1.0	
40	16QAM	1	1	21.86	21.82	21.72	22.5	2.5	
40	256QAM	1	1	19.89	19.78	19.67	20.5	4.5	
Channel							37500	37500	
Frequency (MHz)							1865	1862.5	1900
30	QPSK	1	1	24.85	24.87	24.88	25.0	0.0	
Channel							37500	37500	
Frequency (MHz)							1862.5	1862.5	1902.5
30	QPSK	1	1	24.9	24.48	24.35	25.0	0.0	
Channel							37500	37600	38100
Frequency (MHz)							1869	1862	1900
20	QPSK	1	1	24.38	24.47	24.38	25.0	0.0	
Channel							37500	37600	38150
Frequency (MHz)							1865	1865	1900
16	QPSK	1	1	24.52	24.45	24.38	25.0	0.0	
Channel							37500	37600	38200
Frequency (MHz)							1862.5	1862.5	1902.5
16	QPSK	1	1	24.34	24.39	24.37	25.0	0.0	
Channel							37500	37600	38250
Frequency (MHz)							1862.5	1862.5	1912.5
1	QPSK	1	1	24.29	24.40	24.36	25.0	0.0	

n25_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. [W]	Power Middle Ch. F. [W]	Power High Ch. F. [W]	Tune-up limit [dBm]	MPR [dB]	
Channel							37400	37600	37600
Frequency (MHz)							37415	3741.5	3745
40	PV2 BPSK	1	1	22.52	22.53	22.45	23.0	0.0	
40	PV2 BPSK	1	108	22.32	22.40	22.35	23.0	0.0	
40	PV2 BPSK	1	214	22.34	22.44	22.34	23.0	0.0	
40	PV2 BPSK	108	0	22.36	22.34	22.28	23.0	0.0	
40	PV2 BPSK	108	54	22.41	22.50	22.43	23.0	0.0	
40	PV2 BPSK	108	108	22.36	22.44	22.31	23.0	0.0	
40	PV2 BPSK	216	0	22.38	22.48	22.40	23.0	0.0	
40	QPSK	1	1	22.45	22.55	22.48	23.0	0.0	
40	QPSK	1	108	22.52	22.59	22.52	23.0	0.0	
40	QPSK	1	214	22.36	22.45	22.34	23.0	0.0	
40	QPSK	108	0	22.28	22.29	22.23	23.0	0.0	
40	QPSK	108	54	22.42	22.53	22.45	23.0	0.0	
40	QPSK	108	108	22.28	22.27	22.21	23.0	0.0	
40	QPSK	216	0	22.45	22.55	22.43	23.0	0.0	
40	16QAM	1	1	22.52	22.30	22.32	23.0	0.0	
40	16QAM	1	1	21.86	21.82	21.72	22.5	2.5	
40	256QAM	1	1	19.89	19.78	19.67	20.5	4.5	
Channel							37500	37500	
Frequency (MHz)							1865	1862.5	1900
30	QPSK	1	1	22.57	22.44	22.42	23.0	0.0	
Channel							37500	37600	
Frequency (MHz)							1862.5	1862.5	1902.5
30	QPSK	1	1	22.29	22.49	22.41	23.0	0.0	
Channel							37500	37600	38100
Frequency (MHz)							1869	1862.5	1900
20	QPSK	1	1	22.35	22.44	22.35	23.0	0.0	
Channel							37500	37600	38150
Frequency (MHz)							1865	1865	1900
16	QPSK	1	1	22.59	22.47	22.33	23.0	0.0	
Channel							37500	37600	38200
Frequency (MHz)							1862.5	1862.5	1902.5
10	QPSK	1	1	22.40	22.50	22.39	23.0	0.0	
Channel							37500	37600	38250
Frequency (MHz)							1862.5	1862.5	1912.5
1	QPSK	1	1	22.31	22.44	22.32	23.0	0.0	

n25_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F. [W]	Power Middle Ch. F. [W]	Power High Ch. F. [W]	Tune-up limit [dBm]	MPR [dB]	
Channel							37400	37600	37600
Frequency (MHz)							37415	3741.5	3745
40	PV2 BPSK	1	1	22.21	22.02	22.02	24.5	0.0	
40	PV2 BPSK	1	108	22.78	22.89	22.91	24.5	0.0	
40	PV2 BPSK	1	214	22.83	22.86	22.83	24.5	0.0	
40	PV2 BPSK	108	0	22.29	22.34	22.42	24.0	0.5	
40	PV2 BPSK	108	54	22.82	22.91	22.82	24.5	0.0	
40	PV2 BPSK	108	108	22.27	22.45	22.39	24.0	0.5	
40	PV2 BPSK	216	0	22.27	22.40	22.35	24.0	0.5	
40	QPSK	1	1	22.95	23.03	23.00	24.5	0.0	
40	QPSK	1	108	22.79	22.88	22.73	24.5	0.0	
40	QPSK	1	214	22.80	22.89	22.82	24.5	0.0	
40	QPSK	108	0	21.88	21.81	21.78	23.5	1.0	
40	QPSK	108	54	22.79	22.85	22.74	24.5	1.0	
40	QPSK	108	108	21.83	21.73	21.81	23.5	1.0	
40	QPSK	216	0	21.88	21.83	21.78	23.5	1.0	
40	16QAM	1	1	21.71	21.81	21.75	23.5	1.0	
40	16QAM	1	1	20.21	20.38	20.20	22.0	2.5	
40	256QAM	1	1	18.24	18.33	18.20	20.0	4.5	
Channel							37500	37500	
Frequency (MHz)							1865	1862.5	1900
30	QPSK	1	1	22.86	22.91	22.88	24.5	0.0	
Channel							37500	37600	
Frequency (MHz)							1862.5	1862.5	1902.5
30	QPSK	1	1	21.84	21.97	21.90	23.5	0.0	
Channel							37500	37600	38100
Frequency (MHz)							1869	1862.5	1900
20	QPSK	1	1	22.92	22.94	22.90	24.5	0.0	
Channel							37500	37600	38150
Frequency (MHz)							1865	1865	1900
15	QPSK	1	1	22.80	22.90	22.88	24.5	0.0	
Channel							37500	37600	38200
Frequency (MHz)							1862.5	1862.5	1902.5
10	QPSK	1	1	22.81	22.89	22.91	24.5	0.0	
Channel							37500	37600	38250
Frequency (MHz)							1862.5	1862.5	1912.5
1	QPSK	1	1	22.82	22.96	22.91	24.5	0.0	



n30_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	18.72	18.72	18.72	18.0
10	PV2 BPSK	1	26	18.67	18.67	18.67	18.0
10	PV2 BPSK	1	50	18.62	18.62	18.62	18.0
10	PV2 BPSK	25	0	18.67	18.67	18.67	18.0
10	PV2 BPSK	25	14	18.62	18.62	18.62	18.0
10	PV2 BPSK	25	27	18.56	18.56	18.56	18.0
10	PV2 BPSK	50	0	18.68	18.68	18.68	18.0
10	QPSK	1	1	18.72	18.72	18.72	18.0
10	QPSK	1	26	18.71	18.71	18.71	18.0
10	QPSK	1	50	18.72	18.72	18.72	18.0
10	QPSK	25	0	18.72	18.72	18.72	18.0
10	QPSK	25	14	18.72	18.72	18.72	18.0
10	QPSK	25	27	18.72	18.72	18.72	18.0
10	QPSK	50	0	18.71	18.71	18.71	18.0
10	16QAM	1	1	18.84	18.84	18.84	18.0
10	16QAM	1	1	18.85	18.85	18.85	18.0
10	256QAM	1	1	18.87	18.87	18.87	18.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	18.54	18.88	18.80	18.0

n30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	18.72	18.72	18.72	18.0
10	PV2 BPSK	1	26	18.67	18.67	18.67	18.0
10	PV2 BPSK	1	50	18.62	18.62	18.62	18.0
10	PV2 BPSK	25	0	18.67	18.67	18.67	18.0
10	PV2 BPSK	25	14	18.62	18.62	18.62	18.0
10	PV2 BPSK	25	27	18.56	18.56	18.56	18.0
10	PV2 BPSK	50	0	18.68	18.68	18.68	18.0
10	QPSK	1	1	18.72	18.72	18.72	18.0
10	QPSK	1	26	18.71	18.71	18.71	18.0
10	QPSK	1	50	18.72	18.72	18.72	18.0
10	QPSK	25	0	18.72	18.72	18.72	18.0
10	QPSK	25	14	18.72	18.72	18.72	18.0
10	QPSK	25	27	18.72	18.72	18.72	18.0
10	QPSK	50	0	18.71	18.71	18.71	18.0
10	16QAM	1	1	18.84	18.84	18.84	18.0
10	16QAM	1	1	18.85	18.85	18.85	18.0
10	256QAM	1	1	18.87	18.87	18.87	18.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	18.54	18.88	18.80	18.0

n30_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	22.72	22.72	22.72	24.5
10	PV2 BPSK	1	26	22.68	22.68	22.68	24.5
10	PV2 BPSK	1	50	22.72	22.72	22.72	24.5
10	PV2 BPSK	25	0	22.67	22.67	22.67	24.0
10	PV2 BPSK	25	14	22.68	22.68	22.68	24.5
10	PV2 BPSK	25	27	22.72	22.72	22.72	24.0
10	PV2 BPSK	50	0	22.70	22.70	22.70	24.5
10	QPSK	1	1	22.72	22.72	22.72	24.5
10	QPSK	1	26	22.72	22.72	22.72	24.5
10	QPSK	1	50	22.72	22.72	22.72	24.5
10	QPSK	25	0	22.68	22.68	22.68	24.5
10	QPSK	25	14	22.68	22.68	22.68	24.5
10	QPSK	25	27	22.68	22.68	22.68	24.5
10	QPSK	50	0	22.68	22.68	22.68	24.5
10	16QAM	1	1	22.58	22.58	22.58	24.5
10	16QAM	1	1	22.58	22.58	22.58	24.5
10	256QAM	1	1	22.58	22.58	22.58	24.5
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.73	22.78	22.85	24.5



n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	24.45	24.95	24.45	25.0	0.0	
40	P12 BPSK	1	108	24.26	24.40	24.34	25.0	0.0	
40	P12 BPSK	1	214	24.30	24.43	24.34	25.0	0.0	
40	P12 BPSK	108	0	23.87	23.98	23.84	24.5	0.5	
40	P12 BPSK	108	54	24.30	24.45	24.30	25.0	0.0	
40	P12 BPSK	108	108	23.90	23.95	23.81	24.5	0.5	
40	P12 BPSK	216	0	23.89	23.95	23.83	24.5	0.5	
40	QPSK	1	1	24.45	24.45	24.45	25.0	0.0	
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0	
40	QPSK	1	214	24.31	24.43	24.33	25.0	0.0	
40	QPSK	108	0	23.32	23.43	23.38	24.0	1.0	
40	QPSK	108	54	24.31	24.36	24.25	25.0	0.0	
40	QPSK	108	108	23.28	23.32	23.21	24.0	1.0	
40	QPSK	216	0	23.12	23.28	23.19	24.0	1.0	
40	16QAM	1	1	23.22	23.33	23.28	24.0	1.0	
40	16QAM	1	1	23.86	23.90	23.77	23.5	2.5	
40	256QAM	1	1	19.81	19.88	19.82	20.5	4.5	
Channel									
Frequency (MHz)				34600	34750	34900			
30	QPSK	1	1	24.97	24.88	24.97	25.0	0.0	
Channel				34950	34950	34950			
Frequency (MHz)				1722.5	1745	1737.5			
26	QPSK	1	1	23.23	23.47	23.44	23.0	0.0	
Channel				34400	34600	34800			
Frequency (MHz)				1725	1745	1765			
20	QPSK	1	1	23.23	23.45	23.34	23.0	0.0	
Channel				34300	34900	34400			
Frequency (MHz)				1745	1765	1785			
16	QPSK	1	1	24.29	24.43	24.33	25.0	0.0	
Channel				34300	34900	34900			
Frequency (MHz)				1745	1765	1785			
16	QPSK	1	1	24.20	24.48	24.40	25.0	0.0	
Channel				34500	34900	34900			
Frequency (MHz)				1732.5	1745	1757.5			
1	QPSK	1	1	24.34	24.41	24.34	25.0	0.0	

n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				1745	1745	1745			
40	P12 BPSK	1	1	21.95	22.52	22.52	22.5	0.0	
40	P12 BPSK	1	108	21.90	21.99	21.89	22.5	0.0	
40	P12 BPSK	1	214	21.79	21.84	21.81	22.5	0.0	
40	P12 BPSK	108	0	21.79	21.88	21.82	22.0	0.0	
40	P12 BPSK	108	54	21.93	22.00	21.98	22.5	0.0	
40	P12 BPSK	108	108	21.77	21.88	21.83	22.5	0.0	
40	P12 BPSK	216	0	21.90	21.98	21.95	22.5	0.0	
40	QPSK	1	1	21.99	21.95	21.91	22.5	0.0	
40	QPSK	1	108	21.86	21.89	21.82	22.5	0.0	
40	QPSK	1	214	21.85	21.89	21.86	22.5	0.0	
40	QPSK	108	0	21.84	21.85	21.82	22.0	0.0	
40	QPSK	108	54	21.95	22.03	21.99	22.5	0.0	
40	QPSK	108	108	21.84	21.83	21.83	22.5	0.0	
40	QPSK	216	0	21.93	22.00	21.95	22.5	0.0	
40	16QAM	1	1	21.82	21.85	21.85	22.5	0.0	
40	16QAM	1	1	21.99	21.99	21.92	22.5	0.0	
40	256QAM	1	1	19.81	19.88	19.82	20.5	2.0	
Channel									
Frequency (MHz)				34600	34700	34800			
30	QPSK	1	1	21.92	21.90	21.86	22.5	0.0	
Channel				34950	34950	34950			
Frequency (MHz)				1722.5	1745	1737.5			
26	QPSK	1	1	21.90	21.99	21.81	22.5	0.0	
Channel				34600	34900	34600			
Frequency (MHz)				1745	1745	1745			
20	QPSK	1	1	21.92	21.91	21.86	22.5	0.0	
Channel				34300	34900	34900			
Frequency (MHz)				1745	1765	1785			
16	QPSK	1	1	21.90	22.09	21.93	22.5	0.0	
Channel				34300	34900	34900			
Frequency (MHz)				1745	1765	1785			
10	QPSK	1	1	21.91	21.89	21.88	22.5	0.0	
Channel				34500	34900	34900			
Frequency (MHz)				1732.5	1745	1757.5			
1	QPSK	1	1	21.93	21.93	21.95	22.5	0.0	

n66_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				1730	1745	1760			
40	P12 BPSK	1	1	22.72	22.72	22.72	24.5	0.0	
40	P12 BPSK	1	108	22.72	22.83	22.79	24.5	0.0	
40	P12 BPSK	1	214	22.82	22.88	22.73	24.5	0.0	
40	P12 BPSK	108	0	22.79	22.82	22.77	24.0	0.5	
40	P12 BPSK	108	54	22.78	22.83	22.76	24.5	0.0	
40	P12 BPSK	108	108	22.25	22.35	22.30	24.0	0.5	
40	P12 BPSK	216	0	22.16	22.30	22.14	24.0	0.5	
40	QPSK	1	1	22.92	22.95	22.98	24.5	0.0	
40	QPSK	1	108	22.82	22.88	22.83	24.5	0.0	
40	QPSK	1	214	22.84	22.92	22.76	24.5	0.0	
40	QPSK	108	0	22.70	22.82	22.82	23.5	1.0	
40	QPSK	108	54	22.74	22.80	22.76	24.5	0.0	
40	QPSK	108	108	22.65	22.73	22.61	24.5	1.0	
40	QPSK	216	0	22.79	22.88	22.84	24.5	1.0	
40	16QAM	1	1	22.78	22.90	22.78	24.5	1.0	
40	16QAM	1	1	28.31	28.42	28.37	29.0	2.5	
40	256QAM	1	1	18.27	18.35	18.20	20.0	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.85	22.89	22.78	24.5	0.0	
Channel				34950	34950	34950			
Frequency (MHz)				1722.5	1745	1737.5			
26	QPSK	1	1	22.85	22.83	22.83	23.5	0.0	
Channel				34400	34900	34400			
Frequency (MHz)				1745	1745	1745			
20	QPSK	1	1	22.82	22.85	22.77	23.5	0.0	
Channel				34300	34900	34900			
Frequency (MHz)				1745	1765	1785			
16	QPSK	1	1	22.81	22.84	22.83	24.5	0.0	
Channel				34300	34900	34900			
Frequency (MHz)				1745	1765	1785			
10	QPSK	1	1	22.85	22.80	22.82	24.5	0.0	
Channel				34500	34900	34900			
Frequency (MHz)				1732.5	1745	1757.5			
1	QPSK	1	1	22.79	22.84	22.75	24.5	0.0	



n71_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Take-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			156600	156700	157600			
20	PI2 BPSK	1	1	24.43	24.43	24.55			
20	PI2 BPSK	1	53	24.37	24.40	24.49	20.0	0.0	
20	PI2 BPSK	1	104	24.31	24.32	24.47			
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5	
20	PI2 BPSK	50	28	24.35	24.54	24.44	20.0	0.0	
20	PI2 BPSK	50	56	23.79	23.97	23.93			
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5	
20	QPSK	1	1	24.46	24.53	24.59			
20	QPSK	1	53	24.46	24.53	24.46	20.0	0.0	
20	QPSK	1	104	24.46	24.56	24.51			
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0	
20	QPSK	50	28	24.46	24.54	24.39	20.0	0.0	
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0	
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0	
20	16QAM	1	1	23.38	23.52	23.38	25.0	1.0	
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5	
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5	
Channel									
	Frequency (MHz)			157100	157200	157300	Take-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	193.5	193.5	193.5	20.0	0.0	
Channel									
	Frequency (MHz)			157400	157500	157600	Take-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	24.43	24.43	24.51	20.0	0.0	
Channel									
	Frequency (MHz)			158100	158200	159100	Take-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	24.34	24.34	24.51	20.0	0.0	

n71_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Take-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
	Frequency (MHz)			158600	158700	157600			
20	PI2 BPSK	1	1	24.43	24.43	24.55			
20	PI2 BPSK	1	53	24.37	24.40	24.49	20.0	0.0	
20	PI2 BPSK	1	104	24.31	24.32	24.47			
20	PI2 BPSK	50	0	23.79	24.05	23.93	25.5	0.5	
20	PI2 BPSK	50	28	24.35	24.54	24.44	20.0	0.0	
20	PI2 BPSK	50	56	23.79	23.97	23.93			
20	PI2 BPSK	100	0	23.82	24.05	23.98	25.5	0.5	
20	QPSK	1	1	24.46	24.53	24.59			
20	QPSK	1	53	24.46	24.53	24.46	20.0	0.0	
20	QPSK	1	104	24.46	24.56	24.51			
20	QPSK	50	0	23.49	23.59	23.43	25.0	1.0	
20	QPSK	50	28	24.46	24.54	24.39	20.0	0.0	
20	QPSK	50	56	23.43	23.49	23.49	25.0	1.0	
20	QPSK	100	0	23.42	23.55	23.39	25.0	1.0	
20	16QAM	1	1	23.38	23.52	23.38	25.0	1.0	
20	16QAM	1	1	21.74	21.85	21.79	23.5	2.5	
20	256QAM	1	1	19.73	19.83	19.72	21.5	4.5	
Channel									
	Frequency (MHz)			159100	159200	159300	Take-up limit (dBm)	MPR (dB)	
15	PI2 BPSK	1	1	24.43	24.43	24.42	20.0	0.0	
Channel									
	Frequency (MHz)			159400	159500	159600	Take-up limit (dBm)	MPR (dB)	
10	PI2 BPSK	1	1	24.43	24.43	24.51	20.0	0.0	
Channel									
	Frequency (MHz)			160100	160200	160300	Take-up limit (dBm)	MPR (dB)	
5	PI2 BPSK	1	1	24.34	24.34	24.51	20.0	0.0	



n41_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	20.55	21.02	21.05		
100	Pi2 BPSK	1	137	20.90	21.00	20.99	22.5	0.0
100	Pi2 BPSK	1	271	20.90	20.93	20.93		
100	Pi2 BPSK	135	0	20.81	20.99	20.90	22.5	0.0
100	Pi2 BPSK	135	69	20.93	21.05	21.03	22.5	0.0
100	Pi2 BPSK	135	138	20.80	20.90	20.98	22.5	0.0
100	Pi2 BPSK	270	0	20.90	21.03	21.01		
100	QPSK	1	1	20.98	21.11	21.08		
100	QPSK	1	137	20.92	21.02	21.01	22.5	0.0
100	QPSK	1	271	20.84	21.03	21.03		
100	QPSK	135	0	20.86	21.00	20.95		
100	QPSK	135	69	20.95	21.05	21.05	22.5	0.0
100	QPSK	135	138	20.99	20.95	20.95		
100	QPSK	270	0	20.93	21.05	21.03	22.5	0.0
100	16QAM	1	1	20.84	20.96	21.02	22.5	0.0
100	64QAM	1	1	20.91	21.00	20.97	22.5	0.0
100	256QAM	1	1	20.84	21.05	20.96	22.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.58	20.95	20.98	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.84	20.99	21.01	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.83	20.96	20.96	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.83	20.96	21.03	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.83	20.96	21.03	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.85	21.03	20.95	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.90	21.04	20.98	22.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.84	20.95	20.98	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.82	20.95	20.98	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.87	21.01	21.01	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.91	20.97	21.00	22.5	0.0

n41_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	20.47	20.58	20.45		
100	Pi2 BPSK	1	137	20.41	20.57	20.54	22.0	0.0
100	Pi2 BPSK	1	271	20.38	20.52	20.45		
100	Pi2 BPSK	135	0	20.41	20.56	20.49	22.0	0.0
100	Pi2 BPSK	135	69	20.47	20.46	20.49	22.0	0.0
100	Pi2 BPSK	135	138	20.45	20.46	20.46	22.0	0.0
100	Pi2 BPSK	270	0	20.45	20.54	20.48		
100	QPSK	1	1	20.53	20.82	20.60		
100	QPSK	1	137	20.40	20.47	20.45	22.0	0.0
100	QPSK	1	271	20.39	20.57	20.48		
100	QPSK	135	0	20.43	20.48	20.44		
100	QPSK	135	69	20.50	20.58	20.56	22.0	0.0
100	QPSK	135	138	20.39	20.57	20.55		
100	QPSK	270	0	20.48	20.55	20.52	22.0	0.0
100	16QAM	1	1	20.45	20.57	20.46	22.0	0.0
100	64QAM	1	1	20.40	20.53	20.51	22.0	0.0
100	256QAM	1	1	20.45	20.47	20.52	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.42	20.45	20.43	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.47	20.50	20.55	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.53	20.59	20.55	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.39	20.46	20.45	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.41	20.59	20.52	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.44	20.48	20.50	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.38	20.51	20.52	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.47	20.47	20.45	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.37	20.56	20.53	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.38	20.51	20.41	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.43	20.47	20.55	22.0	0.0



### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	19.75	20.13	20.10		
100	PID BPSK	1	137	19.69	20.03	20.02	21.0	0.0
100	PID BPSK	1	271	19.73	20.06	19.96		
100	PID BPSK	135	0	19.77	20.00	19.99	21.0	0.0
100	PID BPSK	135	69	19.82	20.11	20.06	21.0	0.0
100	PID BPSK	135	138	19.72	20.03	19.97		
100	PID BPSK	270	0	19.78	20.06	20.03	21.0	0.0
100	QPSK	1	1	19.88	20.15	20.11		
100	QPSK	1	137	19.72	20.03	19.98	21.0	0.0
100	QPSK	1	271	19.75	20.06	19.99		
100	QPSK	135	0	19.76	20.01	19.95		
100	QPSK	135	69	19.85	20.15	20.08	21.0	0.0
100	QPSK	135	138	19.80	19.89	19.84		
100	QPSK	270	0	19.82	20.11	20.05	21.0	0.0
100	16QAM	1	1	19.81	20.07	19.95	21.0	0.0
100	16QAM	1	1	19.82	20.05	19.98	21.0	0.0
100	16QAM	1	1	19.82	19.99	20.04	21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.83	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	20.09	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.74	20.10	20.06	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.83	20.01	20.04	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.82	20.06	20.03	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.74	20.07	19.99	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.81	20.10	20.09	21.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.83	20.10	20.05	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.75	19.99	19.95	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.82	20.10	19.96	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.78	20.07	19.99	21.0	0.0

### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	19.83				
100	PID BPSK	1	137	19.60			21.0	0.0
100	PID BPSK	1	271	19.58				
100	PID BPSK	135	0	19.57			21.0	0.0
100	PID BPSK	135	69	19.80			21.0	0.0
100	PID BPSK	135	138	19.57				
100	PID BPSK	270	0	19.58			21.0	0.0
100	QPSK	1	1	19.66				
100	QPSK	1	137	19.63			21.0	0.0
100	QPSK	1	271	19.60				
100	QPSK	135	0	19.61				
100	QPSK	135	69	19.92			21.0	0.0
100	QPSK	135	138	19.59				
100	QPSK	270	0	19.60			21.0	0.0
100	16QAM	1	1	19.55			21.0	0.0
100	16QAM	1	1	19.56			21.0	0.0
100	16QAM	1	1	19.56			21.0	0.0
100	16QAM	1	1	19.56			21.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.57	19.58	19.45	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.56	19.58	19.45	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.47	19.53	19.49	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.60	19.55	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.53	19.40	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.47	19.50	19.45	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.56	19.53	19.53	21.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.57	19.60	19.50	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.56	19.61	19.52	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.56	19.61	19.55	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.48	19.53	19.50	21.0	0.0

### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	20.82	21.05	21.08		
100	PID BPSK	1	137	20.78	21.07	21.03	22.0	0.0
100	PID BPSK	1	271	20.74	21.02	20.99		
100	PID BPSK	135	0	20.78	21.08	20.98	22.0	0.0
100	PID BPSK	135	69	20.78	21.09	21.03	22.0	0.0
100	PID BPSK	135	138	20.78	21.03	21.05		
100	PID BPSK	270	0	20.80	21.04	21.08	22.0	0.0
100	QPSK	1	1	20.88	21.15	21.13		
100	QPSK	1	137	20.81	21.03	21.05	22.0	0.0
100	QPSK	1	271	20.78	20.99	21.00		
100	QPSK	135	0	20.80	21.06	21.00		
100	QPSK	135	69	20.85	21.15	21.11	22.0	0.0
100	QPSK	135	138	20.80	21.10	21.08		
100	QPSK	270	0	20.83	21.11	21.09	22.0	0.0
100	QPSK	1	1	20.75	21.05	21.03	22.0	0.0
100	16QAM	1	1	20.78	21.05	21.04	22.0	0.0
100	16QAM	1	1	20.75	21.00	21.00	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.82	21.07	21.04	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.81	21.09	21.00	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.83	21.07	21.02	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.77	21.03	21.01	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.82	21.01	21.03	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.81	21.03	21.03	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.74	21.05	21.00	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.74	21.02	21.01	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.77	21.07	21.06	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.79	21.01	21.02	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.77	21.01	21.06	22.0	0.0





Par27Q n77\_Ant 9

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation types like P1/2 BPSK, QPSK, 16QAM, and 64QAM across different frequencies.

Par27Q n77\_Ant 7

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation types like P1/2 BPSK, QPSK, 16QAM, and 64QAM across different frequencies.

Par27Q n77\_Ant 7

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Rows include various modulation types like P1/2 BPSK, QPSK, 16QAM, and 64QAM across different frequencies.



### Par27O n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.02	23.24	23.42		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.93	23.77		
100	PI2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	23.68	23.70		
100	PI2 BPSK	270	0	23.70	23.80	23.65	25.0	0.0
100	QPSK	1	1	23.97	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.95	23.88		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.66	23.68	23.65	25.0	0.0
100	ISDM	1	1	23.80	23.95	23.80	25.0	0.0
100	ISDM	1	1	23.70	23.95	23.73	25.0	0.0
100	ISDM	1	1	23.83	23.77	23.70	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.76	24.01	23.95	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.76	23.97	23.91	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.90	24.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.79	24.06	24.07	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.99	24.05	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.78	24.02	23.95	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633000	Power High Ch. / Freq. 633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.25	23.45	23.45		
100	PI2 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	PI2 BPSK	1	271	23.64	23.64	23.64		
100	PI2 BPSK	135	0	23.30	23.30	23.30	25.0	0.0
100	PI2 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	PI2 BPSK	135	138	23.48	23.48	23.48		
100	PI2 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.65	23.65	23.65		
100	QPSK	1	137	23.34	23.34	23.34	25.0	0.0
100	QPSK	1	271	23.64	23.64	23.64		
100	QPSK	135	0	23.47	23.47	23.47		
100	QPSK	135	69	23.48	23.48	23.48	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44		
100	QPSK	270	0	23.29	23.29	23.29	25.0	0.0
100	16QAM	1	1	23.34	23.34	23.34	25.0	0.0
100	16QAM	1	1	23.35	23.35	23.35	25.0	0.0
100	16QAM	1	1	22.29	22.29	22.29	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.37	23.11	23.11	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.35	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.43	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.49	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



ENDC Mode State 8

Band 2, Ant 1

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch./Freq., 18700, 18900, High Ch./Freq., 19100), Turnup (limit (dB)), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various bandwidths (20, 15, 10, 5 MHz) and modulation rates (1, 2, 4, 8).

Band 2, Ant 2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch./Freq., 18700, 18900, High Ch./Freq., 19100), Turnup (limit (dB)), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various bandwidths (20, 15, 10, 5 MHz) and modulation rates (1, 2, 4, 8).

Band 2, Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch./Freq., 18700, 18900, High Ch./Freq., 19100), Turnup (limit (dB)), MPR (dB). Rows include QPSK, 16QAM, 64QAM, 256QAM for various bandwidths (20, 15, 10, 5 MHz) and modulation rates (1, 2, 4, 8).











n2_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				1867	1880	1900	
20	Pi/2 BPSK	1	1	23.39	23.42	23.39	21.5
20	Pi/2 BPSK	1	53	23.39	23.41	23.38	21.5
20	Pi/2 BPSK	1	104	23.39	23.41	23.39	21.5
20	Pi/2 BPSK	50	0	23.35	23.47	23.36	21.5
20	Pi/2 BPSK	50	28	23.35	23.37	23.34	21.5
20	Pi/2 BPSK	50	56	23.46	23.36	23.41	21.5
20	Pi/2 BPSK	100	0	23.43	23.37	23.37	21.5
20	QPSK	1	1	23.48	23.53	23.48	21.5
20	QPSK	1	53	23.35	23.44	23.34	21.5
20	QPSK	1	104	23.35	23.47	23.38	21.5
20	QPSK	50	0	23.43	23.43	23.35	21.5
20	QPSK	50	28	23.48	23.50	23.43	21.5
20	QPSK	50	56	23.35	23.46	23.37	21.5
20	QPSK	100	0	23.43	23.48	23.41	21.5
20	16QAM	1	1	23.35	23.37	23.40	21.5
20	16QAM	1	1	23.36	23.38	23.38	21.5
20	256QAM	1	1	19.48	19.53	19.44	20.5
Channel							
Frequency (MHz)				1867.5	1880	1902.5	
15	QPSK	1	1	23.42	23.41	23.39	21.5
Channel							
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	23.37	23.41	23.39	21.5
Channel							
Frequency (MHz)				17650	17660	18150	
5	QPSK	1	1	12.43	12.37	12.34	21.5

n2_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				17650	17660	18150	
20	Pi/2 BPSK	1	1	12.52	12.54	12.58	14.0
20	Pi/2 BPSK	1	53	12.53	12.54	12.59	14.0
20	Pi/2 BPSK	1	104	12.53	12.53	12.55	14.0
20	Pi/2 BPSK	50	0	12.49	12.48	12.43	14.0
20	Pi/2 BPSK	50	28	12.58	12.50	12.52	14.0
20	Pi/2 BPSK	50	56	12.50	12.53	12.59	14.0
20	Pi/2 BPSK	100	0	12.57	12.58	12.57	14.0
20	QPSK	1	1	12.55	12.53	12.53	14.0
20	QPSK	1	53	12.48	12.47	12.41	14.0
20	QPSK	1	104	12.55	12.52	12.52	14.0
20	QPSK	50	0	12.55	12.50	12.50	14.0
20	QPSK	50	28	12.53	12.55	12.51	14.0
20	QPSK	50	56	12.49	12.51	12.51	14.0
20	QPSK	100	0	12.48	12.42	12.45	14.0
20	16QAM	1	1	12.54	12.58	12.55	14.0
20	16QAM	1	1	12.50	12.54	12.57	14.0
20	256QAM	1	1	12.33	12.51	12.38	14.0
Channel							
Frequency (MHz)				17650	17660	18150	
15	QPSK	1	1	12.50	12.51	12.55	14.0
Channel							
Frequency (MHz)				1855	1860	1905	
10	QPSK	1	1	12.51	12.53	12.59	14.0
Channel							
Frequency (MHz)				17650	17660	18150	
5	QPSK	1	1	12.52	12.54	12.58	14.0

n2_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				17650	17660	18150	
20	Pi/2 BPSK	1	1	12.52	12.54	12.58	19.0
20	Pi/2 BPSK	1	53	12.53	12.54	12.59	19.0
20	Pi/2 BPSK	1	104	12.53	12.53	12.55	19.0
20	Pi/2 BPSK	50	0	12.49	12.48	12.43	19.0
20	Pi/2 BPSK	50	28	12.41	12.52	12.50	19.0
20	Pi/2 BPSK	50	56	12.41	12.42	12.44	19.0
20	Pi/2 BPSK	100	0	12.38	12.37	12.37	19.0
20	QPSK	1	1	12.46	12.46	12.41	19.0
20	QPSK	1	53	12.34	12.38	12.28	19.0
20	QPSK	1	104	12.38	12.43	12.37	19.0
20	QPSK	50	0	12.52	12.41	12.36	19.0
20	QPSK	50	28	12.43	12.45	12.41	19.0
20	QPSK	50	56	12.36	12.42	12.35	19.0
20	QPSK	100	0	12.40	12.42	12.38	19.0
20	16QAM	1	1	12.34	12.38	12.28	19.0
20	16QAM	1	1	12.32	12.36	12.27	19.0
20	256QAM	1	1	12.41	12.42	12.37	19.0
Channel							
Frequency (MHz)				17650	17660	18150	
15	QPSK	1	1	12.34	12.33	12.38	19.0
Channel							
Frequency (MHz)				1855	1860	1905	
10	QPSK	1	1	12.57	12.59	12.56	19.0
Channel							
Frequency (MHz)				17650	17660	18150	
5	QPSK	1	1	12.53	12.42	12.34	19.0





n5_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				166600	167300	167900		
Frequency (MHz)								
20	PV2 BPSK	1	1	22.00	22.00	22.00		
20	PV2 BPSK	1	53	22.06	22.08	22.03	23.5	0.0
20	PV2 BPSK	1	104	22.06	22.03	22.02		
20	PV2 BPSK	50	0	21.99	22.70	22.02	23.5	0.0
20	PV2 BPSK	50	26	21.87	22.00	22.07	23.5	0.0
20	PV2 BPSK	100	0	21.90	22.04	21.98	23.5	0.0
20	PV2 BPSK	100	0	22.04	22.09	21.97		
20	QPSK	1	1	22.11	22.08	22.12		
20	QPSK	1	53	21.99	22.11	22.04	23.5	0.0
20	QPSK	1	104	22.04	22.08	22.03		
20	QPSK	50	0	21.97	22.06	22.02	23.5	0.0
20	QPSK	50	26	22.08	22.13	22.11	23.5	0.0
20	QPSK	100	0	21.99	22.02	22.02	23.5	0.0
20	QPSK	100	0	22.06	22.70	22.08	23.5	0.0
20	16QAM	1	1	22.01	22.00	22.00	23.5	0.0
20	16QAM	1	1	22.00	22.03	21.99	23.5	0.0
20	256QAM	1	1	20.14	20.23	20.11	21.5	2.0
Channel								
				165000	167300	169500	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	21.80	22.07	22.07	23.5	0.0
Channel								
				165500	167200	169000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	21.00	21.11	21.09	23.5	0.0
Channel								
				165000	167300	169500	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	22.00	22.00	21.99	23.5	0.0

n5_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				166600	167300	167900		
Frequency (MHz)								
20	PV2 BPSK	1	1	18.04	18.04	18.04		
20	PV2 BPSK	1	53	18.06	18.07	18.03	19.5	0.0
20	PV2 BPSK	1	104	18.03	18.01	18.03		
20	PV2 BPSK	50	0	17.99	18.11	18.07	19.5	0.0
20	PV2 BPSK	50	26	18.04	18.02	17.98	19.5	0.0
20	PV2 BPSK	100	0	18.02	18.09	18.04	19.5	0.0
20	PV2 BPSK	100	0	17.97	18.11	18.03		
20	QPSK	1	1	18.11	18.08	18.13		
20	QPSK	1	53	18.04	18.02	18.01	19.5	0.0
20	QPSK	1	104	17.97	18.02	18.08		
20	QPSK	50	0	18.00	18.07	18.02	19.5	0.0
20	QPSK	50	26	18.11	18.14	18.12	19.5	0.0
20	QPSK	100	0	17.99	18.01	18.04	19.5	0.0
20	QPSK	100	0	18.09	18.12	18.10	19.5	0.0
20	16QAM	1	1	17.97	18.01	18.00	19.5	0.0
20	16QAM	1	1	18.05	18.04	18.05	19.5	0.0
20	256QAM	1	1	17.98	18.04	17.99	19.5	0.0
Channel								
				165000	167300	169500	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	18.04	18.05	18.01	19.5	0.0
Channel								
				165500	167200	169000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	18.04	18.05	18.01	19.5	0.0
Channel								
				165000	167300	169500	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	18.04	18.05	18.01	19.5	0.0

n7_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Midle Ch. Freq.	High Ch. Freq.		
Channel								
				560000	567000	570000		
Frequency (MHz)								
40	PV2 BPSK	1	1	20.76	20.76	20.81		
40	PV2 BPSK	1	108	20.74	20.80	20.87	22.0	0.0
40	PV2 BPSK	1	214	20.79	20.80	20.80		
40	PV2 BPSK	108	0	20.78	20.90	20.84	22.0	0.0
40	PV2 BPSK	108	54	20.73	20.82	20.88	22.0	0.0
40	PV2 BPSK	108	108	20.82	20.87	20.83		
40	PV2 BPSK	216	0	20.77	20.81	20.80	22.0	0.0
40	QPSK	1	1	20.80	20.80	20.82		
40	QPSK	1	108	20.77	20.83	20.88	22.0	0.0
40	QPSK	1	214	20.80	20.80	20.76		
40	QPSK	108	0	20.78	20.81	20.82	22.0	0.0
40	QPSK	108	54	20.83	20.82	20.80	22.0	0.0
40	QPSK	108	108	20.77	20.81	20.82		
40	QPSK	216	0	20.81	20.80	20.88	22.0	0.0
40	16QAM	1	1	20.74	20.80	20.83	22.0	0.0
40	16QAM	1	1	20.78	20.88	20.79	22.0	0.0
40	256QAM	1	1	18.45	18.57	18.44	20.5	1.5
Channel								
				555000	567000	570000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	20.73	20.80	20.77	22.0	0.0
Channel								
				560000	567000	570000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	20.77	20.79	20.80	22.0	0.0
Channel								
				565000	567000	570000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	20.72	20.83	20.78	22.0	0.0
Channel								
				560000	567000	570000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	1	20.79	20.83	20.79	22.0	0.0
Channel								
				565000	567000	570000	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	1	20.69	20.81	20.78	22.0	0.0



n7_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel								
				2500	2530	2560		
40	PQ2 BPSK	1	1	11.75	11.91	11.81		
40	PQ2 BPSK	1	108	11.72	11.91	11.85	13.0	0.0
40	PQ2 BPSK	1	214	11.73	11.84	11.86		
40	PQ2 BPSK	108	0	11.80	11.93	11.82	13.0	0.0
40	PQ2 BPSK	108	54	11.76	11.92	11.82	13.0	0.0
40	PQ2 BPSK	108	108	11.73	11.90	11.82	13.0	0.0
40	PQ2 BPSK	216	0	11.79	11.83	11.77	13.0	0.0
40	QPSK	1	1	11.86	11.98	11.92		
40	QPSK	1	108	11.75	11.93	11.84	13.0	0.0
40	QPSK	1	214	11.76	11.88	11.84		
40	QPSK	108	0	11.75	11.92	11.82	13.0	0.0
40	QPSK	108	54	11.80	11.95	11.83	13.0	0.0
40	QPSK	108	108	11.78	11.93	11.86	13.0	0.0
40	QPSK	216	0	11.80	11.93	11.81		
40	16QAM	1	1	11.78	11.93	11.83	13.0	0.0
40	16QAM	1	1	11.80	11.95	11.83	13.0	0.0
40	256QAM	1	1	11.79	11.82	11.80	13.0	0.0
Channel								
				25000	25300	25600		
30	QPSK	1	1	11.75	11.86	11.88	13.0	0.0
Channel								
				25250	25300	25350		
26	QPSK	1	1	2513	2533	2537		
Channel								
				50500	50700	51000		
20	QPSK	1	1	11.74	11.92	11.84	13.0	0.0
Channel								
				50550	50700	51000		
16	QPSK	1	1	11.76	11.88	11.85	13.0	0.0
Channel								
				50900	50900	51000		
16	QPSK	1	1	11.77	11.84	11.80	13.0	0.0
Channel								
				25600	25700	25800		
3	QPSK	1	1	11.73	11.89	11.87	13.0	0.0

n12_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel								
				141500	141600	141700		
15	PQ2 BPSK	1	1	23.92	23.97	23.92		
15	PQ2 BPSK	1	40	23.42	23.51	23.46	25.0	0.0
15	PQ2 BPSK	1	77	23.27	23.43	23.35		
15	PQ2 BPSK	36	0	23.46	23.47	23.41	25.0	0.0
15	PQ2 BPSK	36	22	23.44	23.52	23.45	25.0	0.0
15	PQ2 BPSK	36	43	23.37	23.53	23.39	25.0	0.0
15	PQ2 BPSK	75	0	23.37	23.42	23.42		
15	QPSK	1	1	23.23	23.28	23.25		
15	QPSK	1	40	23.59	23.46	23.43	25.0	0.0
15	QPSK	1	77	23.43	23.48	23.49		
15	QPSK	36	0	23.40	23.45	23.47	25.0	0.0
15	QPSK	36	22	23.50	23.55	23.53	25.0	0.0
15	QPSK	36	43	23.41	23.45	23.45	25.0	0.0
15	QPSK	75	0	23.46	23.52	23.50		
15	16QAM	1	1	23.43	23.48	23.42	25.0	0.0
15	16QAM	1	1	22.92	22.93	23.97	23.5	1.5
15	256QAM	1	1	19.96	20.04	19.94	21.5	3.5
Channel								
				141500	141700	141700		
10	QPSK	1	1	23.44	23.52	23.44	25.0	0.0
Channel								
				141500	141700	141700		
5	QPSK	1	1	23.43	23.50	23.50	25.0	0.0

n12_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel								
				141500	141600	141700		
Frequency (MHz)								
				707.5	707.5	707.5		
15	PQ2 BPSK	1	1	19.45	19.54	19.39		
15	PQ2 BPSK	1	40	19.49	19.43	19.46	21.0	0.0
15	PQ2 BPSK	1	77	19.47	19.54	19.46		
15	PQ2 BPSK	36	0	19.47	19.46	19.43	21.0	0.0
15	PQ2 BPSK	36	22	19.49	19.51	19.39	21.0	0.0
15	PQ2 BPSK	36	43	19.47	19.44	19.46	21.0	0.0
15	PQ2 BPSK	75	0	19.47	19.43	19.37		
15	QPSK	1	1	19.56	19.50	19.52		
15	QPSK	1	40	19.44	19.45	19.37	21.0	0.0
15	QPSK	1	77	19.44	19.49	19.43		
15	QPSK	36	0	19.49	19.52	19.43	21.0	0.0
15	QPSK	36	22	19.55	19.57	19.52	21.0	0.0
15	QPSK	36	43	19.49	19.52	19.52	21.0	0.0
15	QPSK	75	0	19.52	19.53	19.50		
15	16QAM	1	1	19.42	19.46	19.41	21.0	0.0
15	16QAM	1	1	19.40	19.50	19.45	21.0	0.0
15	256QAM	1	1	19.44	19.51	19.43	21.0	0.0
Channel								
				141500	141600	141700		
Frequency (MHz)								
				704	707.5	711		
10	QPSK	1	1	19.40	19.52	19.39	21.0	0.0
Channel								
				141500	141600	141700		
5	QPSK	1	1	19.47	19.53	19.37	21.0	0.0



n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.			
Channel									
40	PB2 BPSK	1	1	1815	1815	1815			
Frequency (MHz)									
40	PB2 BPSK	1	108	20.93	21.03	20.91	21.5	0.0	
40	PB2 BPSK	1	214	20.93	20.99	20.88	21.5	0.0	
40	PB2 BPSK	108	0	20.97	20.96	20.94	21.5	0.0	
40	PB2 BPSK	108	54	20.90	21.01	20.91	21.5	0.0	
40	PB2 BPSK	108	108	20.97	21.01	20.97	21.5	0.0	
40	PB2 BPSK	216	0	20.98	21.03	20.89	21.5	0.0	
40	QPSK	1	1	21.05	21.08	21.03	21.5	0.0	
40	QPSK	1	108	20.92	21.02	20.87	21.5	0.0	
40	QPSK	1	214	20.97	20.97	20.89	21.5	0.0	
40	QPSK	108	0	20.91	20.92	20.95	21.5	0.0	
40	QPSK	108	54	21.02	21.05	21.00	21.5	0.0	
40	QPSK	108	108	20.95	21.03	20.94	21.5	0.0	
40	QPSK	216	0	21.00	21.03	20.98	21.5	0.0	
40	HS-DM	1	1	20.98	20.98	20.98	21.5	0.0	
40	HS-DM	1	1	20.98	20.98	20.98	21.5	0.0	
40	SSB-GM	1	1	19.89	19.78	19.87	20.5	1.0	
Channel									
30	QPSK	1	1	1850	1850	1850			
Frequency (MHz)									
30	QPSK	1	1	1865	1862.5	1900	1865	0.0	
Channel									
30	QPSK	1	1	20.92	20.92	20.92	21.5	0.0	
Frequency (MHz)									
20	QPSK	1	1	1802.5	1802.5	1802.5	1802.5	0.0	
Channel									
20	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Channel									
16	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
16	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Channel									
16	QPSK	1	1	20.91	21.00	20.87	21.5	0.0	
Frequency (MHz)									
1	QPSK	1	1	1802.5	1802.5	1812.5	1802.5	0.0	

n25_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.			
Channel									
40	PB2 BPSK	1	1	1345	1345	1345			
Frequency (MHz)									
40	PB2 BPSK	1	108	13.43	13.43	13.39	14.0	0.0	
40	PB2 BPSK	1	214	13.43	13.43	13.39	14.0	0.0	
40	PB2 BPSK	108	0	13.43	13.39	13.39	14.0	0.0	
40	PB2 BPSK	108	54	13.43	13.48	13.35	14.0	0.0	
40	PB2 BPSK	108	108	13.37	13.44	13.43	14.0	0.0	
40	PB2 BPSK	216	0	13.45	13.40	13.38	14.0	0.0	
40	QPSK	1	1	13.43	13.35	13.41	14.0	0.0	
40	QPSK	1	108	13.48	13.48	13.35	14.0	0.0	
40	QPSK	1	214	13.48	13.30	13.46	14.0	0.0	
40	QPSK	108	0	13.42	13.43	13.43	14.0	0.0	
40	QPSK	108	54	13.51	13.53	13.49	14.0	0.0	
40	QPSK	108	108	13.40	13.48	13.48	14.0	0.0	
40	QPSK	216	0	13.49	13.50	13.47	14.0	0.0	
40	HS-DM	1	1	13.46	13.30	13.35	14.0	0.0	
40	HS-DM	1	1	13.44	13.44	13.45	14.0	0.0	
40	SSB-GM	1	1	13.44	13.50	13.38	14.0	0.0	
Channel									
30	QPSK	1	1	1347	1344	1337	14.0	0.0	
Frequency (MHz)									
20	QPSK	1	1	1802.5	1802.5	1802.5	1802.5	0.0	
Channel									
20	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Channel									
16	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
16	QPSK	1	1	13.40	13.40	13.43	14.0	0.0	
Channel									
10	QPSK	1	1	13.44	13.41	13.43	14.0	0.0	
Frequency (MHz)									
1	QPSK	1	1	13.42	13.46	13.36	14.0	0.0	

n25_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Midst Ch. Freq.	High Ch. Freq.			
Channel									
40	PB2 BPSK	1	1	1743	1743	1743			
Frequency (MHz)									
40	PB2 BPSK	1	108	17.41	17.48	17.45	19.0	0.0	
40	PB2 BPSK	1	214	17.43	17.43	17.42	19.0	0.0	
40	PB2 BPSK	108	0	17.42	17.48	17.37	19.0	0.0	
40	PB2 BPSK	108	54	17.41	17.42	17.39	19.0	0.0	
40	PB2 BPSK	108	108	17.39	17.47	17.45	19.0	0.0	
40	PB2 BPSK	216	0	17.39	17.41	17.45	19.0	0.0	
40	QPSK	1	1	17.51	17.56	17.53	19.0	0.0	
40	QPSK	1	108	17.39	17.42	17.37	19.0	0.0	
40	QPSK	1	214	17.37	17.45	17.39	19.0	0.0	
40	QPSK	108	0	17.38	17.41	17.45	19.0	0.0	
40	QPSK	108	54	17.48	17.53	17.50	19.0	0.0	
40	QPSK	108	108	17.38	17.50	17.37	19.0	0.0	
40	QPSK	216	0	17.45	17.52	17.48	19.0	0.0	
40	HS-DM	1	1	17.48	17.46	17.42	19.0	0.0	
40	HS-DM	1	1	17.41	17.41	17.38	19.0	0.0	
40	SSB-GM	1	1	17.39	17.42	17.40	19.0	0.0	
Channel									
30	QPSK	1	1	1742	1744	1741	19.0	0.0	
Frequency (MHz)									
20	QPSK	1	1	1802.5	1802.5	1802.5	1802.5	0.0	
Channel									
20	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Channel									
16	QPSK	1	1	37500	37600	38100	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
16	QPSK	1	1	17.39	17.45	17.45	19.0	0.0	
Channel									
10	QPSK	1	1	17.42	17.46	17.37	19.0	0.0	
Frequency (MHz)									
1	QPSK	1	1	17.38	17.45	17.47	19.0	0.0	



n30_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	18.72	19.10		
10	PV2 BPSK	1	26	18.87	19.10	18.0	0.0
10	PV2 BPSK	1	50	18.88	19.10		
10	PV2 BPSK	25	0	18.87	19.10	18.0	0.0
10	PV2 BPSK	25	27	18.88	19.10		
10	PV2 BPSK	50	0	18.88	19.10	18.0	0.0
10	QPSK	1	1	18.72	19.10		
10	QPSK	1	26	18.71	19.10	18.0	0.0
10	QPSK	1	50	18.72	19.10		
10	QPSK	25	0	18.72	19.10	18.0	0.0
10	QPSK	25	14	18.72	19.10		
10	QPSK	25	27	18.72	19.10	18.0	0.0
10	QPSK	50	0	18.71	19.10		
10	16QAM	1	1	18.84	19.10	18.0	0.0
10	16QAM	1	1	18.85	19.10		
10	256QAM	1	1	18.87	19.10	18.0	0.0
Channel							
Frequency (MHz)							
				18.500	19.000	18.500	
				2307.5	2310	2312.5	
5	QPSK	1	1	18.54	18.88	18.80	0.0

n30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	11.72	11.70		
10	PV2 BPSK	1	26	11.65	11.70	13.0	0.0
10	PV2 BPSK	1	50	11.68	11.70		
10	PV2 BPSK	25	0	11.72	11.70	13.0	0.0
10	PV2 BPSK	25	14	11.70	11.70		
10	PV2 BPSK	25	27	11.72	11.70	13.0	0.0
10	PV2 BPSK	50	0	11.72	11.70	13.0	0.0
10	QPSK	1	1	11.70	11.70		
10	QPSK	1	26	11.68	11.70	13.0	0.0
10	QPSK	1	50	11.67	11.70		
10	QPSK	25	0	11.69	11.70	13.0	0.0
10	QPSK	25	14	11.70	11.70		
10	QPSK	25	27	11.72	11.70	13.0	0.0
10	QPSK	50	0	11.68	11.70	13.0	0.0
10	16QAM	1	1	11.70	11.70	13.0	0.0
10	16QAM	1	1	11.68	11.70		
10	256QAM	1	1	11.72	11.70	13.0	0.0
Channel							
Frequency (MHz)							
				48200	48200	48200	
				2507.5	2510	2512.5	
5	QPSK	1	1	11.70	11.72	11.60	0.0

n30_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
10	PV2 BPSK	1	1	14.70	14.70		
10	PV2 BPSK	1	26	14.73	14.70	16.5	0.0
10	PV2 BPSK	1	50	14.72	14.70		
10	PV2 BPSK	25	0	14.74	14.70	16.5	0.0
10	PV2 BPSK	25	14	14.69	14.70		
10	PV2 BPSK	25	27	14.69	14.70	16.5	0.0
10	PV2 BPSK	50	0	14.73	14.70	16.5	0.0
10	QPSK	1	1	14.68	14.70		
10	QPSK	1	26	14.76	14.70	16.5	0.0
10	QPSK	1	50	14.72	14.70		
10	QPSK	25	0	14.69	14.70	16.5	0.0
10	QPSK	25	14	14.83	14.70		
10	QPSK	25	27	14.76	14.70	16.5	0.0
10	QPSK	50	0	14.88	14.70	16.5	0.0
10	16QAM	1	1	14.76	14.70	16.5	0.0
10	16QAM	1	1	14.69	14.70		
10	256QAM	1	1	14.71	14.70	16.5	0.0
Channel							
Frequency (MHz)							
				50500	50500	50500	
				2307.5	2310	2312.5	
5	QPSK	1	1	14.78	14.80	14.75	0.0





n71_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				154600	156100	157600	
20	PI2 BPSK	1	1	22.52	22.92	23.32	0.0
20	PI2 BPSK	1	53	22.50	23.00	23.50	24.5
20	PI2 BPSK	1	104	22.48	23.00	23.52	0.0
20	PI2 BPSK	50	0	22.47	23.08	23.65	24.5
20	PI2 BPSK	50	28	23.03	23.03	23.96	24.5
20	PI2 BPSK	50	56	22.94	23.00	23.94	0.0
20	PI2 BPSK	100	0	23.01	23.00	23.99	24.5
20	QPSK	1	1	22.60	22.60	22.61	0.0
20	QPSK	1	53	22.48	23.00	23.63	24.5
20	QPSK	1	104	22.47	23.00	23.63	0.0
20	QPSK	50	0	23.00	23.00	23.97	24.5
20	QPSK	50	28	23.06	23.10	23.10	24.5
20	QPSK	50	56	23.04	23.00	23.00	0.0
20	QPSK	100	0	23.03	23.10	23.68	24.5
20	16QAM	1	1	22.46	23.00	23.99	24.5
20	16QAM	1	1	21.74	21.85	21.79	23.5
20	256QAM	1	1	19.73	19.83	19.72	21.5
Channel							
Frequency (MHz)				157600	159100	160600	
15	PI2 BPSK	1	1	22.46	23.00	23.65	24.5
Channel							
Frequency (MHz)				159100	160600	162100	
10	PI2 BPSK	1	1	22.28	23.00	23.00	24.5
Channel							
Frequency (MHz)				160600	162100	163600	
5	PI2 BPSK	1	1	21.54	21.50	21.50	24.5

n71_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				154600	156100	157600	
20	PI2 BPSK	1	1	22.52	22.92	23.32	0.0
20	PI2 BPSK	1	53	22.50	23.00	23.52	25.0
20	PI2 BPSK	1	104	22.41	23.00	23.51	0.0
20	PI2 BPSK	50	0	22.42	23.06	23.51	25.0
20	PI2 BPSK	50	28	23.07	23.08	23.54	25.0
20	PI2 BPSK	50	56	23.41	23.07	23.65	24.0
20	PI2 BPSK	100	0	23.41	23.08	23.54	24.0
20	QPSK	1	1	22.50	22.50	22.50	0.0
20	QPSK	1	53	22.45	23.07	23.55	25.0
20	QPSK	1	104	22.34	23.49	23.46	0.0
20	QPSK	50	0	22.42	23.51	23.50	25.0
20	QPSK	50	28	23.48	23.63	23.58	25.0
20	QPSK	50	56	23.50	23.50	23.51	25.0
20	QPSK	100	0	22.42	23.55	23.49	25.0
20	16QAM	1	1	22.38	23.52	23.38	25.0
20	64QAM	1	1	21.74	21.85	21.78	23.5
20	256QAM	1	1	19.73	19.83	19.72	21.5
Channel							
Frequency (MHz)				160600	162100	163600	
15	PI2 BPSK	1	1	22.38	23.50	23.44	25.0
Channel							
Frequency (MHz)				162100	163600	165100	
10	PI2 BPSK	1	1	21.50	21.50	21.48	25.0
Channel							
Frequency (MHz)				163600	165100	166600	
5	PI2 BPSK	1	1	21.42	21.42	21.47	25.0



### n41\_Ant 1

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518598	528000		
100	PI2 BPSK	1	1	19.43	19.47	19.50		
100	PI2 BPSK	1	137	19.51	19.50	19.48	21.0	0.0
100	PI2 BPSK	1	271	19.51	19.46	19.54		
100	PI2 BPSK	135	0	19.53	19.50	19.48	21.0	0.0
100	PI2 BPSK	135	89	19.46	19.48	19.54	21.0	0.0
100	PI2 BPSK	135	138	19.45	19.49	19.52		
100	PI2 BPSK	270	0	19.47	19.54	19.47	21.0	0.0
100	QPSK	1	1	19.58	19.62	19.80		
100	QPSK	1	137	19.47	19.51	19.54	21.0	0.0
100	QPSK	1	271	19.42	19.46	19.47		
100	QPSK	135	0	19.49	19.54	19.54		
100	QPSK	135	89	19.55	19.60	19.58	21.0	0.0
100	QPSK	135	138	19.42	19.46	19.42		
100	QPSK	270	0	19.52	19.57	19.55	21.0	0.0
100	16QAM	1	1	19.44	19.48	19.54	21.0	0.0
100	64QAM	1	1	19.47	19.46	19.54	21.0	0.0
100	256QAM	1	1	19.45	19.54	19.46	21.0	0.0
Channel								
Frequency (MHz)				52911	2592.99	2644.98		
90	QPSK	1	1	19.49	19.47	19.51	21.0	0.0
Channel								
Frequency (MHz)				507204	518598	529398		
80	QPSK	1	1	2538.02	2592.99	2649.99		
80	QPSK	1	1	19.53	19.57	19.47	21.0	0.0
Channel								
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	19.48	19.51	19.54	21.0	0.0
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	19.42	19.53	19.49	21.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	2521.02	2592.99	2684.99		
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	2516.01	2592.99	2670		
Channel								
Frequency (MHz)				502000	518598	535996		
30	QPSK	1	1	19.50	19.49	19.47	21.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
25	QPSK	1	1	19.43	19.57	19.55	21.0	0.0
Channel								
Frequency (MHz)				500700	518598	536496		
15	QPSK	1	1	19.52	19.45	19.49	21.0	0.0
Channel								
Frequency (MHz)				500202	518598	537000		
10	QPSK	1	1	2501.01	2592.99	2685		
10	QPSK	1	1	19.47	19.49	19.52	21.0	0.0

### n41\_Ant 2

Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518598	528000		
100	PI2 BPSK	1	1	11.95	12.04	12.03		
100	PI2 BPSK	1	137	11.95	12.05	11.98	13.5	0.0
100	PI2 BPSK	1	271	12.05	12.03	12.06		
100	PI2 BPSK	135	0	12.02	12.00	12.02	13.5	0.0
100	PI2 BPSK	135	89	12.00	12.08	11.97	13.5	0.0
100	PI2 BPSK	135	138	11.95	12.07	11.98		
100	PI2 BPSK	270	0	12.05	12.11	12.07		
100	QPSK	1	1	12.11	12.16	12.13		
100	QPSK	1	137	12.01	12.03	11.99	13.5	0.0
100	QPSK	1	271	12.05	12.08	12.06		
100	QPSK	135	0	12.05	12.01	11.98		
100	QPSK	135	89	12.05	12.13	12.10	13.5	0.0
100	QPSK	135	138	12.06	12.04	12.07		
100	QPSK	270	0	12.06	12.10	12.08		
100	16QAM	1	1	12.02	12.09	12.05	13.5	0.0
100	64QAM	1	1	12.08	12.09	12.02	13.5	0.0
100	256QAM	1	1	12.03	12.08	11.99	13.5	0.0
Channel								
Frequency (MHz)				52911	2592.99	2644.98		
90	QPSK	1	1	11.97	12.00	12.04	13.5	0.0
Channel								
Frequency (MHz)				507204	518598	529398		
80	QPSK	1	1	2538.02	2592.99	2649.99		
80	QPSK	1	1	12.00	12.00	12.00	13.5	0.0
Channel								
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	12.05	12.00	11.98	13.5	0.0
Channel								
Frequency (MHz)				505200	518598	531996		
60	QPSK	1	1	11.98	12.00	11.98	13.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	2521.02	2592.99	2684.99		
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	2516.01	2592.99	2670		
Channel								
Frequency (MHz)				502000	518598	535996		
30	QPSK	1	1	12.04	12.03	12.05	13.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
25	QPSK	1	1	11.99	12.02	12.02	13.5	0.0
Channel								
Frequency (MHz)				500700	518598	536496		
15	QPSK	1	1	11.99	12.03	12.01	13.5	0.0
Channel								
Frequency (MHz)				500202	518598	537000		
10	QPSK	1	1	2501.01	2592.99	2685		
10	QPSK	1	1	11.95	12.02	12.04	13.5	0.0



### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	13.31	19.20	19.20		
100	P12 BPSK	1	137	15.40	19.53	19.49	20.5	0.0
100	P12 BPSK	1	271	15.41	19.55	19.58		
100	P12 BPSK	135	6	15.41	19.55	19.50	20.5	0.0
100	P12 BPSK	135	69	15.32	19.56	19.51	20.5	0.0
100	P12 BPSK	135	138	15.28	19.60	19.48		
100	P12 BPSK	270	0	15.35	19.58	19.58	20.5	0.0
100	QPSK	1	1	15.46	19.67	19.63		
100	QPSK	1	137	15.33	19.64	19.61	20.5	0.0
100	QPSK	1	271	15.37	19.58	19.59		
100	QPSK	135	0	15.38	19.65	19.56		
100	QPSK	135	69	15.42	19.65	19.61	20.5	0.0
100	QPSK	135	138	15.32	19.60	19.54		
100	QPSK	270	0	15.40	19.62	19.60	20.5	0.0
100	16QAM	1	1	15.41	19.62	19.63	20.5	0.0
100	16QAM	1	1	15.38	19.55	19.58	20.5	0.0
100	256QAM	1	1	15.41	19.56	19.61	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.34	19.57	19.58	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.36	19.62	19.67	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.34	19.52	19.53	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.39	19.62	19.63	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.33	19.40	19.42	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.32	19.55	19.49	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.24	19.54	19.54	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	15.31	19.51	19.53	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.38	19.62	19.56	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.39	19.57	19.58	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.38	19.57	19.56	20.5	0.0

### Par27Q n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	15.30	19.10	19.10		
100	P12 BPSK	1	137	15.40	19.59	19.59	20.5	0.0
100	P12 BPSK	1	271	15.40	19.59	19.59		
100	P12 BPSK	135	6	15.40	19.59	19.59	20.5	0.0
100	P12 BPSK	135	69	15.32	19.58	19.51	20.5	0.0
100	P12 BPSK	135	138	15.28	19.60	19.48		
100	P12 BPSK	270	0	15.35	19.58	19.58	20.5	0.0
100	QPSK	1	1	15.46	19.67	19.63		
100	QPSK	1	137	15.33	19.64	19.61	20.5	0.0
100	QPSK	1	271	15.37	19.58	19.59		
100	QPSK	135	0	15.38	19.65	19.56		
100	QPSK	135	69	15.42	19.65	19.61	20.5	0.0
100	QPSK	135	138	15.32	19.60	19.54		
100	QPSK	270	0	15.40	19.62	19.60	20.5	0.0
100	16QAM	1	1	15.41	19.62	19.63	20.5	0.0
100	16QAM	1	1	15.38	19.55	19.58	20.5	0.0
100	256QAM	1	1	15.41	19.56	19.61	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.34	19.57	19.58	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.36	19.62	19.67	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.34	19.52	19.53	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.39	19.62	19.63	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.33	19.40	19.42	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.32	19.55	19.49	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.24	19.54	19.54	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	15.31	19.51	19.53	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.38	19.62	19.56	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.39	19.57	19.58	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.38	19.57	19.56	20.5	0.0

### Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	15.30	19.10	19.10		
100	P12 BPSK	1	137	15.40	19.10	19.10	20.0	0.0
100	P12 BPSK	1	271	15.40	19.10	19.10		
100	P12 BPSK	135	6	15.40	19.10	19.10	20.0	0.0
100	P12 BPSK	135	69	15.30	19.08	19.07	20.0	0.0
100	P12 BPSK	135	138	15.28	19.08	19.07		
100	P12 BPSK	270	0	15.35	19.07	19.05	20.0	0.0
100	QPSK	1	1	15.25	19.15	19.13		
100	QPSK	1	137	15.38	19.04	19.02	20.0	0.0
100	QPSK	1	271	15.41	19.02	19.03		
100	QPSK	135	0	15.40	19.08	19.06		
100	QPSK	135	69	15.32	19.15	19.10	20.0	0.0
100	QPSK	135	138	15.20	19.10	19.08		
100	QPSK	270	0	15.30	19.11	19.08	20.0	0.0
100	16QAM	1	1	15.35	19.08	19.01	20.0	0.0
100	16QAM	1	1	15.30	19.05	19.05	20.0	0.0
100	256QAM	1	1	15.39	19.06	19.04	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.34	19.04	19.07	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.36	19.11	19.08	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.34	19.01	19.04	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.39	19.02	19.04	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.33	19.04	19.02	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.32	19.05	19.01	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.24	19.06	19.05	20.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	15.31	19.04	19.03	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.38	19.05	19.03	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.39	19.10	19.07	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.38	19.05	19.02	20.0	0.0





Par27Q n77\_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains data for various channels and frequencies.

Par27Q n77\_Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains data for various channels and frequencies.

Par27Q n77\_Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Middle Ch / Freq, Power High Ch / Freq, Tune-up limit (dBm), MPR (dB). Contains data for various channels and frequencies.



### Par27Q n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 660000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 660000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.02	23.24	23.42		
100	PI2 BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	23.93	23.77		
100	PI2 BPSK	135	0	23.80	23.87	23.81	25.0	0.0
100	PI2 BPSK	135	69	23.83	23.83	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	23.68	23.70		
100	PI2 BPSK	270	0	23.70	23.80	23.65	25.0	0.0
100	QPSK	1	1	23.97	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.84	23.95	23.89		
100	QPSK	135	0	23.70	23.84	23.82		
100	QPSK	135	69	23.83	23.85	23.83	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	0	23.66	23.68	23.65	25.0	0.0
100	16QAM	1	1	23.80	23.95	23.80	25.0	0.0
100	16QAM	1	1	23.70	23.95	23.73	25.0	0.0
100	16QAM	1	1	23.83	23.77	23.70	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.75	24.08	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.76	24.01	23.95	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.76	23.97	23.91	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.81	23.90	24.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.79	24.06	24.07	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.75	23.99	24.05	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.77	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.78	24.02	23.95	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.06	24.02	25.0	0.0

### Par27Q n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633000	Power High Ch. / Freq. 633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.25	23.45	23.45		
100	PI2 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	PI2 BPSK	1	271	23.64	23.64	23.64		
100	PI2 BPSK	135	0	23.36	23.36	23.36	25.0	0.0
100	PI2 BPSK	135	69	23.47	23.47	23.47	25.0	0.0
100	PI2 BPSK	135	138	23.48	23.48	23.48		
100	PI2 BPSK	270	0	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.65	23.65	23.65		
100	QPSK	1	137	23.34	23.34	23.34	25.0	0.0
100	QPSK	1	271	23.64	23.64	23.64		
100	QPSK	135	0	23.47	23.47	23.47		
100	QPSK	135	69	23.48	23.48	23.48	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44		
100	QPSK	270	0	23.29	23.29	23.29	25.0	0.0
100	16QAM	1	1	23.34	23.34	23.34	25.0	0.0
100	16QAM	1	1	23.25	23.25	23.25	25.0	0.0
100	16QAM	1	1	23.29	23.29	23.29	25.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.42	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.37	23.11	23.11	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.35	23.34	23.31	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.43	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.43	23.35	23.49	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.39	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.25	23.51	25.0	0.0



CA 2C_Ant 1											
PCC Channel	SCC Channel	Modulation	PCC				SCC				Total Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target EIRP (dB)	Power Reduction	Measured Power (dBm)	
18700	18800	QPSK	1	0	0	0	1	0	Full Power	23.42	23.00
18900	19000	QPSK	1	0	0	0	1	0	Full Power	23.36	23.00
19100	19200	QPSK	1	0	0	0	1	0	Full Power	23.37	23.00
19300	19400	QPSK	1	0	0	0	1	0	Stale6	23.42	23.00
19500	19600	QPSK	1	0	0	0	1	0	Stale6	23.76	23.00
19700	19800	QPSK	1	0	0	0	1	0	Stale6	23.37	23.00
19900	20000	QPSK	1	0	0	0	1	0	Stale7	23.42	23.00
20100	20200	QPSK	1	0	0	0	1	0	Stale7	23.38	23.00
20300	20400	QPSK	1	0	0	0	1	0	Stale7	23.37	23.00
20500	20600	QPSK	1	0	0	0	1	0	Stale6	23.21	23.00
20700	20800	QPSK	1	0	0	0	1	0	Stale6	23.00	23.00
20900	21000	QPSK	1	0	0	0	1	0	Stale6	23.04	23.00
21100	21200	QPSK	1	0	0	0	1	0	Stale6	23.37	23.00
21300	21400	QPSK	1	0	0	0	1	0	Stale10	23.36	23.00
21500	21600	QPSK	1	0	0	0	1	0	Stale10	23.37	23.00

Uplink CA Power														
CA 2C_Ant 2														
PCC Channel	SCC Channel	Modulation	PCC				SCC				Target EIRP (dB)	Power Reduction	Measured Power (dBm)	Total up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size							
18700	18800	QPSK	1	0	0	0	1	0	Full Power	23.42	23.00			
18900	19000	QPSK	1	0	0	0	1	0	Full Power	23.36	23.00			
19100	19200	QPSK	1	0	0	0	1	0	Full Power	23.37	23.00			
19300	19400	QPSK	1	0	0	0	1	0	Stale6	23.42	23.00			
19500	19600	QPSK	1	0	0	0	1	0	Stale6	23.66	23.00			
19700	19800	QPSK	1	0	0	0	1	0	Stale6	23.25	23.00			
19900	20000	QPSK	1	0	0	0	1	0	Stale7	23.25	23.00			
20100	20200	QPSK	1	0	0	0	1	0	Stale7	23.25	23.00			
20300	20400	QPSK	1	0	0	0	1	0	Stale6	23.25	23.00			
20500	20600	QPSK	1	0	0	0	1	0	Stale6	23.25	23.00			
20700	20800	QPSK	1	0	0	0	1	0	Stale6	23.25	23.00			
20900	21000	QPSK	1	0	0	0	1	0	Stale6	23.25	23.00			
21100	21200	QPSK	1	0	0	0	1	0	Stale10	23.46	23.00			
21300	21400	QPSK	1	0	0	0	1	0	Stale10	23.46	23.00			
21500	21600	QPSK	1	0	0	0	1	0	Stale10	23.42	23.00			

CA 5B_Ant 6														
PCC Channel	SCC Channel	Modulation	PCC				SCC				Target EIRP (dB)	Power Reduction	Measured Power (dBm)	Total up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size							
20400	20500	QPSK	1	0	0	0	1	0	Full Power	24.20	24.00			
20600	20700	QPSK	1	0	0	0	1	0	Full Power	24.20	24.00			
20800	20900	QPSK	1	0	0	0	1	0	Full Power	24.18	24.00			
21000	21100	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
21200	21300	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
21400	21500	QPSK	1	0	0	0	1	0	Stale7	24.20	24.00			
21600	21700	QPSK	1	0	0	0	1	0	Stale7	24.18	24.00			
21800	21900	QPSK	1	0	0	0	1	0	Stale7	24.20	24.00			
22000	22100	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
22200	22300	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
22400	22500	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
22600	22700	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
22800	22900	QPSK	1	0	0	0	1	0	Stale6	24.20	24.00			
23000	23100	QPSK	1	0	0	0	1	0	Stale10	24.20	24.00			
23200	23300	QPSK	1	0	0	0	1	0	Stale10	24.20	24.00			
23400	23500	QPSK	1	0	0	0	1	0	Stale10	24.18	24.00			
23600	23700	QPSK	1	0	0	0	1	0	Stale10	24.18	24.00			



CA 5B_Ant 2													
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Final RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)			
20450	20540	QPSK	1	0	0	0	1	0	0	0	Full Power	24.23	26.00
20550	20640	QPSK	1	0	0	0	1	0	0	0	Full Power	24.36	26.00
20600	20690	QPSK	1	0	0	0	1	0	0	0	Full Power	24.18	26.00
20440	20530	QPSK	1	0	0	0	1	0	0	0	State6	22.15	24.00
20570	20660	QPSK	1	0	0	0	1	0	0	0	State6	22.06	24.00
20620	20710	QPSK	1	0	0	0	1	0	0	0	State6	22.11	24.00
20430	20520	QPSK	1	0	0	0	1	0	0	0	State7	20.53	22.00
20560	20650	QPSK	1	0	0	0	1	0	0	0	State7	20.30	22.00
20610	20700	QPSK	1	0	0	0	1	0	0	0	State7	20.30	22.00
20420	20510	QPSK	1	0	0	0	1	0	0	0	State8	20.53	22.00
20550	20640	QPSK	1	0	0	0	1	0	0	0	State8	20.30	22.00
20600	20690	QPSK	1	0	0	0	1	0	0	0	State8	20.30	22.00
20390	20480	QPSK	1	0	0	0	1	0	0	0	State9	24.22	26.00
20440	20530	QPSK	1	0	0	0	1	0	0	0	State9	24.16	26.00
20490	20580	QPSK	1	0	0	0	1	0	0	0	State9	24.53	26.00
20540	20630	QPSK	1	0	0	0	1	0	0	0	State9	24.28	26.00
20590	20680	QPSK	1	0	0	0	1	0	0	0	State9	24.16	26.00
20640	20730	QPSK	1	0	0	0	1	0	0	0	State9	24.16	26.00

CA 7C_Ant 1													
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Final RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)			
20850	21040	QPSK	1	0	0	0	1	0	0	0	Full Power	23.75	25.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	Full Power	24.88	26.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	Full Power	23.78	25.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State6	23.75	25.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State6	22.85	25.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State6	23.78	25.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State7	23.75	25.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State7	22.88	25.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State7	23.78	25.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State8	21.46	23.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State8	20.50	23.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State8	21.57	23.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State9	24.46	26.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State9	21.56	23.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State9	21.57	23.00

CA 7C_Ant 2													
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Final RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)			
20850	21040	QPSK	1	0	0	0	1	0	0	0	Full Power	23.75	25.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	Full Power	23.88	26.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	Full Power	23.78	25.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State6	17.00	18.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State6	18.11	18.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State6	17.00	18.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State7	15.56	16.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State7	15.56	16.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State7	15.56	16.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State8	15.56	16.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State8	15.56	16.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State8	15.56	16.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State9	23.75	25.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State9	23.78	26.00
21000	21190	QPSK	1	0	0	0	1	0	0	0	State9	23.78	26.00
20850	21040	QPSK	1	0	0	0	1	0	0	0	State10	23.80	25.00
21050	21240	QPSK	1	0	0	0	1	0	0	0	State10	23.78	26.00





CA_59C_Ant 2													
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)			
133072	133072	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
133072	133072	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
133072	133074	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
133072	133076	QPSK	1	0	0	0	1	0	0	0	State6	17.18	18.50
133072	133078	QPSK	1	0	0	0	1	0	0	0	State6	18.20	18.50
133072	133074	QPSK	1	0	0	0	1	0	0	0	State6	18.18	18.50
133072	133076	QPSK	1	0	0	0	1	0	0	0	State7	15.14	16.50
133072	133078	QPSK	1	0	0	0	1	0	0	0	State7	15.18	16.50
133072	133074	QPSK	1	0	0	0	1	0	0	0	State7	15.15	16.50
133072	133076	QPSK	1	0	0	0	1	0	0	0	State8	15.14	16.50
133072	133078	QPSK	1	0	0	0	1	0	0	0	State8	15.18	16.50
133072	133074	QPSK	1	0	0	0	1	0	0	0	State9	15.10	16.50
133072	133076	QPSK	1	0	0	0	1	0	0	0	State9	21.05	23.05
133072	133078	QPSK	1	0	0	0	1	0	0	0	State9	21.05	23.05
133072	133074	QPSK	1	0	0	0	1	0	0	0	State9	21.02	23.05
133072	133076	QPSK	1	0	0	0	1	0	0	0	State10	21.05	23.05
133072	133078	QPSK	1	0	0	0	1	0	0	0	State10	21.05	23.05
133072	133074	QPSK	1	0	0	0	1	0	0	0	State10	21.05	23.05

CA_34C_Ant 1													
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)			
33900	33900	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
33900	33900	QPSK	1	0	0	0	1	0	0	0	Full Power	24.05	25.00
33900	33902	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
33900	33904	QPSK	1	0	0	0	1	0	0	0	State6	23.05	23.05
33900	33906	QPSK	1	0	0	0	1	0	0	0	State6	24.05	25.00
33900	33902	QPSK	1	0	0	0	1	0	0	0	State6	23.05	23.05
33900	33904	QPSK	1	0	0	0	1	0	0	0	State7	23.05	23.05
33900	33906	QPSK	1	0	0	0	1	0	0	0	State7	24.05	25.00
33900	33902	QPSK	1	0	0	0	1	0	0	0	State7	23.05	23.05
33900	33904	QPSK	1	0	0	0	1	0	0	0	State8	23.05	23.05
33900	33906	QPSK	1	0	0	0	1	0	0	0	State8	24.05	25.00
33900	33902	QPSK	1	0	0	0	1	0	0	0	State9	23.05	23.05
33900	33904	QPSK	1	0	0	0	1	0	0	0	State9	24.05	25.00
33900	33906	QPSK	1	0	0	0	1	0	0	0	State10	23.05	23.05
33900	33902	QPSK	1	0	0	0	1	0	0	0	State10	23.05	23.05

CA_39C_Ant 2													
PCC Channel	SCC Channel	Modulation	PCC				SCC				Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)			
33900	33900	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
33900	33900	QPSK	1	0	0	0	1	0	0	0	Full Power	24.05	25.00
33900	33902	QPSK	1	0	0	0	1	0	0	0	Full Power	23.05	23.05
33900	33904	QPSK	1	0	0	0	1	0	0	0	State6	18.05	19.50
33900	33906	QPSK	1	0	0	0	1	0	0	0	State6	18.70	19.50
33900	33902	QPSK	1	0	0	0	1	0	0	0	State6	18.70	19.50
33900	33904	QPSK	1	0	0	0	1	0	0	0	State7	16.70	17.50
33900	33906	QPSK	1	0	0	0	1	0	0	0	State7	16.82	17.50
33900	33902	QPSK	1	0	0	0	1	0	0	0	State7	16.77	17.50
33900	33904	QPSK	1	0	0	0	1	0	0	0	State8	16.70	17.50
33900	33906	QPSK	1	0	0	0	1	0	0	0	State8	16.82	17.50
33900	33902	QPSK	1	0	0	0	1	0	0	0	State9	16.77	17.50
33900	33904	QPSK	1	0	0	0	1	0	0	0	State9	16.82	17.50
33900	33906	QPSK	1	0	0	0	1	0	0	0	State10	23.05	23.05
33900	33902	QPSK	1	0	0	0	1	0	0	0	State10	23.05	23.05





CA_41C_HPLUE_Ant 2 Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC			SCC			Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB offset	RB Size	RB offset						
39750	39940	QPSK	1	0	0	0	1	0	Full Power	25.93	27.50		
40180	40370	QPSK	1	0	0	0	1	0	Full Power	26.00	27.50		
40610	40800	QPSK	1	0	0	0	1	0	Full Power	25.93	27.50		
41040	41230	QPSK	1	0	0	0	1	0	Full Power	25.86	27.50		
41470	41660	QPSK	1	0	0	0	1	0	Full Power	25.78	27.50		
39750	39940	QPSK	1	0	0	0	1	0	State6	25.82	27.50		
40180	40370	QPSK	1	0	0	0	1	0	State6	25.59	27.50		
40610	40800	QPSK	1	0	0	0	1	0	State6	25.72	27.50		
41040	41230	QPSK	1	0	0	0	1	0	State6	25.57	27.50		
41470	41660	QPSK	1	0	0	0	1	0	State6	25.54	27.50		
39750	39940	QPSK	1	0	0	0	1	0	State7	18.45	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State7	18.52	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State7	18.56	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State7	18.25	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State7	18.31	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State8	18.41	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State8	18.52	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State8	18.54	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State8	18.33	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State8	18.25	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State9	25.51	27.50		
40180	40370	QPSK	1	0	0	0	1	0	State9	25.50	27.50		
40610	40800	QPSK	1	0	0	0	1	0	State9	25.78	27.50		
41040	41230	QPSK	1	0	0	0	1	0	State9	25.83	27.50		
41470	41660	QPSK	1	0	0	0	1	0	State9	25.83	27.50		
39750	39940	QPSK	1	0	0	0	1	0	State10	25.83	27.50		
40180	40370	QPSK	1	0	0	0	1	0	State10	25.83	27.50		
40610	40800	QPSK	1	0	0	0	1	0	State10	25.86	27.50		
41040	41230	QPSK	1	0	0	0	1	0	State10	25.78	27.50		
41470	41660	QPSK	1	0	0	0	1	0	State10	25.78	27.50		

CA_41C_Ant 8 Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC			SCC			Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB offset	RB Size	RB offset						
39750	39940	QPSK	1	0	0	0	1	0	Full Power	25.50	25.00		
40180	40370	QPSK	1	0	0	0	1	0	Full Power	26.11	25.00		
40610	40800	QPSK	1	0	0	0	1	0	Full Power	25.54	25.00		
41040	41230	QPSK	1	0	0	0	1	0	Full Power	25.50	25.00		
41470	41660	QPSK	1	0	0	0	1	0	Full Power	25.61	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State6	25.48	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State6	26.11	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State6	25.54	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State6	25.50	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State6	25.61	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State7	25.50	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State7	26.11	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State7	25.54	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State7	25.51	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State7	25.66	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State8	25.56	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State8	26.11	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State8	25.56	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State8	25.53	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State8	25.61	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State9	25.56	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State9	26.11	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State9	25.56	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State9	25.53	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State9	25.61	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State10	25.56	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State10	26.11	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State10	25.56	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State10	25.53	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State10	25.61	25.00		

CA_41C_HPLUE_Ant 8 Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC			SCC			Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB offset	RB Size	RB offset						
39750	39940	QPSK	1	0	0	0	1	0	Full Power	25.93	27.50		
40180	40370	QPSK	1	0	0	0	1	0	Full Power	26.00	27.50		
40610	40800	QPSK	1	0	0	0	1	0	Full Power	25.93	27.50		
41040	41230	QPSK	1	0	0	0	1	0	Full Power	25.86	27.50		
41470	41660	QPSK	1	0	0	0	1	0	Full Power	25.78	27.50		
39750	39940	QPSK	1	0	0	0	1	0	State6	25.82	27.50		
40180	40370	QPSK	1	0	0	0	1	0	State6	25.59	27.50		
40610	40800	QPSK	1	0	0	0	1	0	State6	25.72	27.50		
41040	41230	QPSK	1	0	0	0	1	0	State6	25.57	27.50		
41470	41660	QPSK	1	0	0	0	1	0	State6	25.54	27.50		
39750	39940	QPSK	1	0	0	0	1	0	State7	18.45	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State7	18.52	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State7	18.56	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State7	18.25	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State7	18.31	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State8	18.41	25.00		
40180	40370	QPSK	1	0	0	0	1	0	State8	18.52	25.00		
40610	40800	QPSK	1	0	0	0	1	0	State8	18.54	25.00		
41040	41230	QPSK	1	0	0	0	1	0	State8	18.33	25.00		
41470	41660	QPSK	1	0	0	0	1	0	State8	18.25	25.00		
39750	39940	QPSK	1	0	0	0	1	0	State9	25.51	27.50		
40180	40370	QPSK	1	0	0	0	1	0	State9	25.50	27.50		
40610	40800	QPSK	1	0	0	0	1	0	State9	25.78	27.50		
41040	41230	QPSK	1	0	0	0	1	0	State9	25.83	27.50		
41470	41660	QPSK	1	0	0	0	1	0	State9	25.78	27.50		
39750	39940	QPSK	1	0	0	0	1	0	State10	25.83	27.50		
40180	40370	QPSK	1	0	0	0	1	0	State10	25.83	27.50		
40610	40800	QPSK	1	0	0	0	1	0	State10	25.86	27.50		
41040	41230	QPSK	1	0	0	0	1	0	State10	25.78	27.50		
41470	41660	QPSK	1	0	0	0	1	0	State10	25.78	27.50		







CA 488 For FCC Ant 9											
Combination 10MHz+10MHz (50RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC				Final RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
55200	55380	QPSK	1	0	0	0	1	0	Full Power	17.31	18.50
55200	55381	QPSK	1	0	0	0	1	0	Full Power	17.30	18.50
55200	55384	QPSK	1	0	0	0	1	0	Full Power	17.25	18.50
55200	55381	QPSK	1	0	0	0	1	0	Full Power	17.15	18.50
55200	55380	QPSK	1	0	0	0	1	0	State6	17.24	18.50
55200	55374	QPSK	1	0	0	0	1	0	State6	17.23	18.50
55200	55384	QPSK	1	0	0	0	1	0	State6	17.23	18.50
55200	55381	QPSK	1	0	0	0	1	0	State7	17.15	18.50
55200	55374	QPSK	1	0	0	0	1	0	State7	17.33	18.50
55200	55384	QPSK	1	0	0	0	1	0	State7	17.24	18.50
55200	55381	QPSK	1	0	0	0	1	0	State7	17.15	18.50
55200	55380	QPSK	1	0	0	0	1	0	State8	17.31	18.50
55200	55374	QPSK	1	0	0	0	1	0	State8	17.23	18.50
55200	55384	QPSK	1	0	0	0	1	0	State8	17.15	18.50
55200	55381	QPSK	1	0	0	0	1	0	State9	17.31	18.50
55200	55374	QPSK	1	0	0	0	1	0	State9	17.23	18.50
55200	55384	QPSK	1	0	0	0	1	0	State9	17.15	18.50
55200	55381	QPSK	1	0	0	0	1	0	State10	17.23	18.50
55200	55374	QPSK	1	0	0	0	1	0	State10	17.15	18.50

CA 488 For FCC Ant 7											
Combination 10MHz+10MHz (50RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC				Final RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
55200	55380	QPSK	1	0	0	0	1	0	Full Power	17.21	18.50
55200	55381	QPSK	1	0	0	0	1	0	Full Power	17.20	18.50
55200	55384	QPSK	1	0	0	0	1	0	Full Power	17.25	18.50
55200	55381	QPSK	1	0	0	0	1	0	Full Power	17.15	18.50
55200	55380	QPSK	1	0	0	0	1	0	State6	17.21	18.50
55200	55374	QPSK	1	0	0	0	1	0	State6	17.20	18.50
55200	55384	QPSK	1	0	0	0	1	0	State6	17.20	18.50
55200	55381	QPSK	1	0	0	0	1	0	State7	17.15	18.50
55200	55374	QPSK	1	0	0	0	1	0	State7	17.20	18.50
55200	55384	QPSK	1	0	0	0	1	0	State7	17.20	18.50
55200	55381	QPSK	1	0	0	0	1	0	State7	17.15	18.50
55200	55380	QPSK	1	0	0	0	1	0	State8	17.21	18.50
55200	55374	QPSK	1	0	0	0	1	0	State8	17.20	18.50
55200	55384	QPSK	1	0	0	0	1	0	State8	17.15	18.50
55200	55381	QPSK	1	0	0	0	1	0	State9	17.21	18.50
55200	55374	QPSK	1	0	0	0	1	0	State9	17.20	18.50
55200	55384	QPSK	1	0	0	0	1	0	State9	17.15	18.50
55200	55381	QPSK	1	0	0	0	1	0	State10	17.20	18.50
55200	55374	QPSK	1	0	0	0	1	0	State10	17.15	18.50

CA 488 For FCC Ant 10											
Combination 10MHz+10MHz (50RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC				Final RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
55200	55380	QPSK	1	0	0	0	1	0	Full Power	17.31	18.50
55200	55381	QPSK	1	0	0	0	1	0	Full Power	17.30	18.50
55200	55384	QPSK	1	0	0	0	1	0	Full Power	17.25	18.50
55200	55381	QPSK	1	0	0	0	1	0	Full Power	17.15	18.50
55200	55380	QPSK	1	0	0	0	1	0	State6	17.31	18.50
55200	55374	QPSK	1	0	0	0	1	0	State6	17.23	18.50
55200	55384	QPSK	1	0	0	0	1	0	State6	17.23	18.50
55200	55381	QPSK	1	0	0	0	1	0	State7	17.15	18.50
55200	55374	QPSK	1	0	0	0	1	0	State7	17.33	18.50
55200	55384	QPSK	1	0	0	0	1	0	State7	17.24	18.50
55200	55381	QPSK	1	0	0	0	1	0	State7	17.15	18.50
55200	55380	QPSK	1	0	0	0	1	0	State8	17.31	18.50
55200	55374	QPSK	1	0	0	0	1	0	State8	17.23	18.50
55200	55384	QPSK	1	0	0	0	1	0	State8	17.23	18.50
55200	55381	QPSK	1	0	0	0	1	0	State9	17.15	18.50
55200	55374	QPSK	1	0	0	0	1	0	State9	17.23	18.50
55200	55384	QPSK	1	0	0	0	1	0	State9	17.15	18.50
55200	55381	QPSK	1	0	0	0	1	0	State10	17.23	18.50
55200	55374	QPSK	1	0	0	0	1	0	State10	17.15	18.50





CA_48C For FCC_Ant 10												
Combination 20MHz*20MHz (100RB*100RB)												
PCC Channel	SCC Channel	Modulation	PCC			SCC			Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Time up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Total RB Size					
18440	18530	QPSK	1	0	0	0	1	0	Full Power	17.20	18.50	
18440	18530	QPSK	1	0	0	0	1	0	Full Power	18.41	18.50	
18440	18540	QPSK	1	0	0	0	1	0	Full Power	17.20	18.50	
18440	18540	QPSK	1	0	0	0	1	0	Full Power	18.41	18.50	
18440	18550	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18550	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18560	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18560	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18570	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18570	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18580	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18580	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18590	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18590	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18600	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18600	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18610	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18610	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18620	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18620	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18630	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18630	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18640	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18640	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18650	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18650	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18660	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18660	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18670	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18670	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18680	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18680	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18690	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18690	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18700	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18700	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18710	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18710	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	
18440	18720	QPSK	1	0	0	0	1	0	Shut	17.20	18.50	
18440	18720	QPSK	1	0	0	0	1	0	Shut	18.41	18.50	





n2_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	MPR [dB]
Channel							
20	P16Q BPSK	1	1	23.50	23.52	23.58	0.0
20	P16Q BPSK	1	53	23.50	23.58	23.72	25.0
20	P16Q BPSK	1	104	23.75	23.85	23.77	0.0
20	P16Q BPSK	56	0	23.75	23.73	23.72	24.5
20	P16Q BPSK	56	28	23.72	23.82	23.88	25.0
20	P16Q BPSK	56	56	23.71	23.78	23.73	24.5
20	P16Q BPSK	100	0	23.71	23.70	23.75	24.5
20	QPSK	1	1	23.98	24.02	23.97	0.0
20	QPSK	1	53	23.78	23.84	23.80	25.0
20	QPSK	1	104	23.95	23.96	23.91	0.0
20	QPSK	56	0	22.99	23.08	23.03	24.0
20	QPSK	56	28	23.98	23.98	23.91	25.0
20	QPSK	56	56	22.99	23.12	23.08	24.0
20	QPSK	100	0	22.99	23.08	23.03	25.0
20	16QAM	1	1	22.77	22.82	22.83	24.0
20	16QAM	1	1	21.48	21.56	21.48	25.0
20	16QAM	1	1	19.48	19.53	19.44	20.5
Channel							
15	QPSK	1	1	18.73	18.80	18.82	25.0
10	QPSK	1	1	23.23	23.31	23.24	25.0
Channel							
10	QPSK	1	1	23.80	23.88	23.88	25.0
Channel							
5	QPSK	1	1	23.23	23.31	23.24	25.0

Full Power							
n2_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	MPR [dB]
Channel							
20	P16Q BPSK	1	1	23.50	23.53	23.58	0.0
20	P16Q BPSK	1	53	23.50	23.58	23.72	25.0
20	P16Q BPSK	1	104	23.75	23.85	23.77	0.0
20	P16Q BPSK	56	0	23.75	23.73	23.72	24.5
20	P16Q BPSK	56	28	23.72	23.82	23.88	25.0
20	P16Q BPSK	56	56	23.71	23.78	23.73	24.5
20	P16Q BPSK	100	0	23.71	23.70	23.75	24.5
20	QPSK	1	1	23.98	24.02	23.97	0.0
20	QPSK	1	53	23.78	23.84	23.80	25.0
20	QPSK	1	104	23.95	23.96	23.91	0.0
20	QPSK	56	0	22.99	23.08	23.03	24.0
20	QPSK	56	28	23.98	23.98	23.91	25.0
20	QPSK	56	56	22.99	23.12	23.08	24.0
20	QPSK	100	0	22.99	23.08	23.03	25.0
20	16QAM	1	1	22.77	22.82	22.83	24.0
20	16QAM	1	1	21.48	21.56	21.48	25.0
20	16QAM	1	1	19.48	19.53	19.44	20.5
Channel							
15	QPSK	1	1	18.73	18.80	18.82	25.0
10	QPSK	1	1	23.23	23.31	23.24	25.0
Channel							
10	QPSK	1	1	23.80	23.88	23.88	25.0
Channel							
5	QPSK	1	1	23.23	23.31	23.24	25.0

n2_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	MPR [dB]
Channel							
20	P16Q BPSK	1	1	22.83	22.85	22.80	0.0
20	P16Q BPSK	1	53	22.87	22.93	22.90	24.5
20	P16Q BPSK	1	104	22.75	22.74	22.73	0.0
20	P16Q BPSK	56	0	22.75	22.76	22.72	24.0
20	P16Q BPSK	56	28	22.73	22.84	22.75	24.5
20	P16Q BPSK	56	56	22.77	22.73	22.72	24.0
20	P16Q BPSK	100	0	22.77	22.73	22.72	24.0
20	QPSK	1	1	23.90	23.90	23.90	0.0
20	QPSK	1	53	22.73	22.85	22.75	24.5
20	QPSK	1	104	23.87	23.75	23.80	23.5
20	QPSK	56	0	23.75	23.85	23.75	24.5
20	QPSK	56	28	23.81	23.87	23.80	23.5
20	QPSK	56	56	23.81	23.81	23.72	23.5
20	16QAM	1	1	21.86	21.81	21.72	23.5
20	16QAM	1	1	21.17	21.12	21.10	23.0
20	16QAM	1	1	19.28	19.33	19.22	20.0
Channel							
15	QPSK	1	1	18.73	18.80	18.82	25.0
10	QPSK	1	1	23.23	23.31	23.24	25.0
Channel							
10	QPSK	1	1	23.80	23.88	23.88	25.0
Channel							
5	QPSK	1	1	23.23	23.31	23.24	25.0



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
20	PWQ-BPSK	1	1	24.53	24.63	24.68			
Frequency (MHz)									
20	PWQ-BPSK	1	53	24.49	24.47	24.45	20.0	0.0	
20	PWQ-BPSK	1	104	24.37	24.37	24.31			
20	PWQ-BPSK	50	0	24.47	24.56	24.52	20.0	0.0	
20	PWQ-BPSK	50	50	23.92	24.01	23.98	20.0	0.5	
20	PWQ-BPSK	100	0	23.88	23.98	23.94	20.0	0.5	
20	QPSK	1	1	24.56	24.65	24.62			
20	QPSK	1	53	24.50	24.63	24.58	20.0	0.0	
20	QPSK	1	104	24.35	24.43	24.41			
20	QPSK	50	0	23.82	23.77	23.85	20.0	1.0	
20	QPSK	50	50	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	50	23.72	23.78	23.87	20.0	1.0	
20	QPSK	100	0	23.68	23.75	23.82	20.0	1.0	
20	QPSK	100	0	23.82	23.88	23.98	20.0	1.0	
20	MSKAM	1	1	25.18	25.28	25.15	25.5	2.5	
20	MSKAM	1	1	25.14	25.23	25.11	25.5	4.5	
Channel									
15	QPSK	1	1	24.41	24.52	24.42	25.0	1.0	
Frequency (MHz)									
15	QPSK	1	1	24.41	24.52	24.42	25.0	1.0	
Channel									
15	QPSK	1	1	24.52	24.59	24.55	20.0	0.0	
Frequency (MHz)									
5	QPSK	1	1	24.43	24.53	24.47	20.0	1.0	

n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
20	PWQ-BPSK	1	1	24.53	24.63	24.68			
Frequency (MHz)									
20	PWQ-BPSK	1	50	24.49	24.47	24.45	20.0	0.0	
20	PWQ-BPSK	1	104	24.37	24.37	24.31			
20	PWQ-BPSK	50	0	24.47	24.56	24.52	20.0	0.0	
20	PWQ-BPSK	50	50	23.92	24.01	23.98	20.0	0.5	
20	PWQ-BPSK	100	0	23.88	23.98	23.94	20.0	0.5	
20	QPSK	1	1	24.56	24.65	24.62			
20	QPSK	1	53	24.50	24.63	24.58	20.0	0.0	
20	QPSK	1	104	24.35	24.43	24.41			
20	QPSK	50	0	23.82	23.77	23.85	20.0	1.0	
20	QPSK	50	50	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	50	23.70	23.78	23.87	20.0	1.0	
20	QPSK	100	0	23.68	23.75	23.82	20.0	1.0	
20	MSKAM	1	1	25.18	25.28	25.15	25.5	2.5	
20	MSKAM	1	1	25.14	25.23	25.11	25.5	4.5	
Channel									
15	QPSK	1	1	24.41	24.52	24.42	25.0	1.0	
Frequency (MHz)									
15	QPSK	1	1	24.41	24.52	24.42	25.0	1.0	
Channel									
15	QPSK	1	1	24.52	24.59	24.55	20.0	0.0	
Frequency (MHz)									
5	QPSK	1	1	24.43	24.53	24.47	20.0	1.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
40	PWQ-BPSK	1	1	23.78	23.89	23.88			
Frequency (MHz)									
40	PWQ-BPSK	1	108	23.70	23.57	23.50	20.0	0.0	
40	PWQ-BPSK	1	214	23.74	23.85	23.73			
40	PWQ-BPSK	100	0	23.57	23.52	23.70	24.5	0.5	
40	PWQ-BPSK	100	54	23.72	23.80	23.71	20.0	0.0	
40	PWQ-BPSK	100	108	23.74	23.70	23.74	24.5	0.5	
40	PWQ-BPSK	210	0	23.19	23.33	23.18			
40	QPSK	1	1	23.80	23.92	23.90			
40	QPSK	1	108	23.74	23.83	23.78	20.0	0.0	
40	QPSK	1	214	23.66	23.80	23.60			
40	QPSK	100	0	23.59	23.55	23.88	24.0	1.0	
40	QPSK	100	54	23.71	23.83	23.60	20.0	0.0	
40	QPSK	100	108	23.65	23.75	23.68			
40	MSKAM	1	1	25.00	25.03	25.00	24.0	1.0	
40	MSKAM	1	1	25.06	25.01	25.03	24.0	1.0	
40	MSKAM	1	1	25.41	25.50	25.44	25.5	2.5	
40	MSKAM	1	1	25.45	25.37	25.44	25.5	4.5	
Channel									
30	QPSK	1	1	23.13	23.07	23.00	20.0	0.0	
Frequency (MHz)									
30	QPSK	1	1	23.13	23.07	23.00	20.0	0.0	
Channel									
25	QPSK	1	1	23.00	23.00	23.00	20.0	0.0	
Frequency (MHz)									
25	QPSK	1	1	23.12	23.10	23.02	20.0	0.0	
Channel									
20	QPSK	1	1	23.10	23.10	23.00	20.0	0.0	
Frequency (MHz)									
20	QPSK	1	1	23.00	23.00	23.00	20.0	0.0	
Channel									
15	QPSK	1	1	23.03	23.04	23.04	20.0	0.0	
Frequency (MHz)									
15	QPSK	1	1	23.04	23.05	23.05	20.0	0.0	
Channel									
10	QPSK	1	1	23.04	23.05	23.05	20.0	0.0	
Frequency (MHz)									
5	QPSK	1	1	23.10	23.10	23.10	20.0	0.0	



n7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Middle Ch. Freq. 30700	Power High Ch. Freq. 31000	Tune-up limit (dBm)	MPR (dB)
Channel								
40	PW-BPSK	1	1	23.72	23.85	23.88		
Frequency (MHz)								
40	PW-BPSK	1	108	23.70	23.82	23.85	25.0	0.0
40	PW-BPSK	1	214	23.74	23.85	23.75		
40	PW-BPSK	108	0	23.72	23.75	23.78	24.5	0.5
40	PW-BPSK	108	54	23.72	23.85	23.71	25.0	0.0
40	PW-BPSK	108	108	23.74	23.75	23.78	24.5	0.5
40	PW-BPSK	216	0	23.70	23.73	23.78	24.5	0.5
40	QPSK	1	1	23.90	23.92	23.95		
40	QPSK	1	108	23.74	23.83	23.78	25.0	0.0
40	QPSK	1	214	23.76	23.85	23.80		
40	QPSK	108	0	23.72	23.75	23.78	24.0	1.0
40	QPSK	108	54	23.74	23.83	23.80	25.0	0.0
40	QPSK	108	108	23.72	23.75	23.78	24.0	1.0
40	QPSK	216	0	23.70	23.73	23.78	24.0	1.0
40	MSK-M	1	1	23.82	23.81	23.84	25.0	1.0
40	MSK-M	1	1	23.41	23.76	23.44	25.0	2.5
40	MSK-M	1	1	19.45	19.57	19.44	25.0	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.93	23.97	23.95		
Channel								
25	QPSK	1	1	23.92	23.96	23.97		
Channel								
20	QPSK	1	1	23.91	23.93	23.94		
Channel								
15	QPSK	1	1	23.90	23.94	23.94		
Channel								
10	QPSK	1	1	23.89	23.91	23.91		
Channel								
5	QPSK	1	1	23.88	23.90	23.90		

n12_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Middle Ch. Freq. 141500	Power High Ch. Freq. 141500	Tune-up limit (dBm)	MPR (dB)
Channel								
10	PW-BPSK	1	1	24.48	24.53	24.50		
Frequency (MHz)								
10	PW-BPSK	1	40	24.51	24.41	24.40	26.0	0.0
10	PW-BPSK	1	77	24.38	24.47	24.45		
10	PW-BPSK	40	0	24.48	24.51	24.50	25.5	0.5
10	PW-BPSK	40	20	24.42	24.43	24.40	25.0	0.0
10	PW-BPSK	40	40	24.31	24.33	24.30	25.5	0.5
10	PW-BPSK	75	0	24.34	24.33	24.30	25.5	0.5
10	QPSK	1	1	24.50	24.50	24.50		
10	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
10	QPSK	1	77	24.39	24.50	24.34		
10	QPSK	40	0	24.48	24.53	24.37	25.0	1.0
10	QPSK	40	20	24.47	24.50	24.30	25.0	0.0
10	QPSK	40	40	24.36	24.38	24.40	25.0	1.0
10	QPSK	75	0	24.30	24.36	24.33	25.0	1.0
10	MSK-M	1	1	23.42	23.55	23.49	25.0	1.0
10	MSK-M	1	1	22.00	22.13	21.97	25.0	2.5
10	MSK-M	1	1	19.98	20.04	19.94	25.0	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.44	24.42	25.0	1.0
Channel								
10	QPSK	1	1	142000	141500	142100		
Channel								
5	QPSK	1	1	24.43	24.43	24.30	25.0	0.0

n12_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Middle Ch. Freq. 141500	Power High Ch. Freq. 141500	Tune-up limit (dBm)	MPR (dB)
Channel								
15	PW-BPSK	1	1	24.48	24.53	24.50		
Frequency (MHz)								
15	PW-BPSK	1	40	24.51	24.41	24.40	26.0	0.0
15	PW-BPSK	1	77	24.38	24.47	24.45		
15	PW-BPSK	40	0	24.48	24.51	24.50	25.5	0.5
15	PW-BPSK	40	20	24.42	24.43	24.40	25.0	0.0
15	PW-BPSK	40	40	24.31	24.33	24.30	25.5	0.5
15	PW-BPSK	75	0	24.34	24.33	24.30	25.5	0.5
15	QPSK	1	1	24.50	24.50	24.50		
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.39	24.50	24.34		
15	QPSK	40	0	24.48	24.53	24.37	25.0	1.0
15	QPSK	40	20	24.47	24.50	24.30	25.0	0.0
15	QPSK	40	40	24.36	24.38	24.40	25.0	1.0
15	QPSK	75	0	24.30	24.36	24.33	25.0	1.0
15	MSK-M	1	1	23.42	23.55	23.48	25.0	1.0
15	MSK-M	1	1	22.00	22.13	21.97	25.0	2.5
15	MSK-M	1	1	19.98	20.04	19.94	25.0	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.44	24.42	25.0	1.0
Channel								
10	QPSK	1	1	142000	141500	142100		
Channel								
5	QPSK	1	1	24.43	24.43	24.30	25.0	0.0





n25_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up time (min)	MPR (dB)		
				Low Ch. Power (W)	Power Middle (W)	Power High Ch. Power (W)				
Channel										
40	P102 BPSK	1	1	24.30	24.45	24.41				
Frequency (MHz)										
40	P102 BPSK	1	108	24.27	24.36	24.32	25.0	0.0		
40	P102 BPSK	1	214	24.24	24.42	24.32				
40	P102 BPSK	108	0	23.97	23.99	23.96	24.5	0.5		
40	P102 BPSK	108	54	24.25	24.40	24.33	25.0	0.0		
40	P102 BPSK	108	108	23.99	23.97	23.95	24.5	0.5		
40	P102 BPSK	216	0	23.83	23.85	23.81	24.5	0.5		
40	QPSK	1	1	24.43	24.53	24.46				
40	QPSK	1	108	24.31	24.47	24.31	25.0	0.0		
40	QPSK	1	214	24.34	24.46	24.36				
40	QPSK	108	0	23.19	23.33	23.26	24.0	1.0		
40	QPSK	108	54	24.10	24.40	24.24	25.0	0.0		
40	QPSK	108	108	23.22	23.34	23.25	24.0	1.0		
40	QPSK	216	0	23.13	23.38	23.22	24.0	1.0		
40	16QAM	1	1	23.28	23.31	23.29	24.0	1.0		
40	16QAM	1	1	23.66	23.62	23.62	23.5	2.5		
40	256QAM	1	1	19.89	19.78	19.87	20.5	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.30	24.31	24.30	25.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	24.30	24.40	24.35	25.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.30	24.44	24.32	25.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.30	24.40	24.30	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.30	24.32	24.31	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	24.30	24.40	24.30	25.0	0.0		

n25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up time (min)	MPR (dB)		
				Low Ch. Power (W)	Power Middle (W)	Power High Ch. Power (W)				
Channel										
40	P102 BPSK	1	1	24.30	24.45	24.41				
Frequency (MHz)										
40	P102 BPSK	1	108	24.27	24.36	24.32	25.0	0.0		
40	P102 BPSK	1	214	24.24	24.42	24.32				
40	P102 BPSK	108	0	23.97	23.99	23.96	24.5	0.5		
40	P102 BPSK	108	54	24.25	24.40	24.33	25.0	0.0		
40	P102 BPSK	108	108	23.99	23.97	23.95	24.5	0.5		
40	P102 BPSK	216	0	23.83	23.85	23.81	24.5	0.5		
40	QPSK	1	1	24.43	24.53	24.46				
40	QPSK	1	108	24.31	24.47	24.31	25.0	0.0		
40	QPSK	1	214	24.34	24.46	24.36				
40	QPSK	108	0	23.19	23.33	23.26	24.0	1.0		
40	QPSK	108	54	24.10	24.40	24.24	25.0	0.0		
40	QPSK	108	108	23.22	23.34	23.25	24.0	1.0		
40	QPSK	216	0	23.13	23.38	23.22	24.0	1.0		
40	16QAM	1	1	23.28	23.31	23.29	24.0	1.0		
40	16QAM	1	1	23.66	23.62	23.62	23.5	2.5		
40	256QAM	1	1	19.89	19.78	19.87	20.5	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.30	24.31	24.30	25.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	24.30	24.40	24.35	25.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.30	24.44	24.32	25.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.30	24.40	24.30	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.30	24.32	24.31	25.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	24.30	24.40	24.30	25.0	0.0		

n25_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up time (min)	MPR (dB)		
				Low Ch. Power (W)	Power Middle (W)	Power High Ch. Power (W)				
Channel										
40	P102 BPSK	1	1	23.81	23.80	23.86				
Frequency (MHz)										
40	P102 BPSK	1	108	23.76	23.80	23.81	24.5	0.0		
40	P102 BPSK	1	214	23.83	23.86	23.83				
40	P102 BPSK	108	0	23.59	23.54	23.62	24.0	0.5		
40	P102 BPSK	108	54	23.82	23.81	23.82	24.5	0.0		
40	P102 BPSK	108	108	23.57	23.45	23.50	24.0	0.5		
40	P102 BPSK	216	0	23.27	23.40	23.33	24.0	0.5		
40	QPSK	1	1	23.95	23.93	23.90				
40	QPSK	1	108	23.79	23.85	23.73	24.5	0.0		
40	QPSK	1	214	23.80	23.83	23.82				
40	QPSK	108	0	23.88	23.81	23.78	23.5	1.0		
40	QPSK	108	54	23.76	23.80	23.74	24.5	0.0		
40	QPSK	108	108	23.83	23.73	23.87	23.5	1.0		
40	16QAM	1	1	23.60	23.63	23.59	23.5	1.0		
40	16QAM	1	1	23.71	23.81	23.75	23.5	1.0		
40	16QAM	1	1	23.51	23.50	23.50	23.0	2.5		
40	256QAM	1	1	18.24	18.33	18.20	20.0	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.82	23.81	23.80	23.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.84	23.97	23.90	24.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.87	23.94	23.91	24.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.80	23.90	23.86	24.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.81	23.83	23.81	24.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.82	23.90	23.81	24.5	0.0		



n26_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq. 164950	Mid. Ch. Freq. 165000	High Ch. Freq. 165050	
Channel							
20	PSSBPSK	1	1	24.45	24.45	24.45	0.0
Frequency (MHz)							
				24.4	24.5	24.5	
20	PSSBPSK	1	53	24.44	24.45	24.47	20.0
20	PSSBPSK	1	104	24.43	24.45	24.39	0.0
20	PSSBPSK	50	0	23.95	24.05	23.97	0.5
20	PSSBPSK	50	25	24.45	24.52	24.40	0.0
20	PSSBPSK	50	50	23.95	24.05	23.97	0.5
20	PSSBPSK	100	0	24.05	24.05	24.02	0.5
20	QPSK	1	1	24.05	24.05	24.05	0.0
20	QPSK	1	53	24.07	24.03	24.07	20.0
20	QPSK	1	104	24.01	24.05	24.05	0.0
20	QPSK	50	0	23.70	23.78	23.70	1.0
20	QPSK	50	25	24.45	24.05	24.05	0.0
20	QPSK	50	50	23.70	23.78	23.69	20.0
20	QPSK	100	0	23.69	23.78	23.67	1.0
20	MSKAM	1	1	23.55	23.55	23.55	1.0
20	MSKAM	1	1	23.05	23.05	23.05	2.5
20	MSKAM	1	1	20.10	20.20	20.21	4.5
Channel							
				24.0	24.0	24.0	
Frequency (MHz)							
				24.0	24.0	24.0	
10	QPSK	1	1	24.47	24.50	24.44	0.0
Channel							
				24.0	24.0	24.0	
Frequency (MHz)							
				24.0	24.0	24.0	
5	QPSK	1	1	24.41	24.51	24.43	1.0

n26_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq. 164950	Mid. Ch. Freq. 165000	High Ch. Freq. 165050	
Channel							
20	PSSBPSK	1	1	24.40	24.45	24.45	0.0
Frequency (MHz)							
				24.4	24.5	24.5	
20	PSSBPSK	1	50	24.04	24.05	24.07	20.0
20	PSSBPSK	1	104	24.49	24.49	24.39	0.0
20	PSSBPSK	50	0	23.99	24.05	23.91	0.5
20	PSSBPSK	50	25	24.49	24.52	24.40	0.0
20	PSSBPSK	50	50	23.99	24.05	23.91	0.5
20	PSSBPSK	100	0	24.05	24.05	24.02	0.5
20	QPSK	1	1	24.05	24.05	24.05	0.0
20	QPSK	1	50	24.07	24.03	24.07	20.0
20	QPSK	1	104	24.01	24.05	24.05	0.0
20	QPSK	50	0	23.70	23.78	23.70	1.0
20	QPSK	50	25	24.45	24.05	24.05	0.0
20	QPSK	50	50	23.70	23.78	23.69	20.0
20	QPSK	100	0	23.69	23.78	23.67	1.0
20	MSKAM	1	1	23.55	23.55	23.55	1.0
20	MSKAM	1	1	22.05	22.05	22.05	2.5
20	MSKAM	1	1	20.10	20.20	20.21	4.5
Channel							
				24.0	24.0	24.0	
Frequency (MHz)							
				24.0	24.0	24.0	
10	QPSK	1	1	24.47	24.44	24.42	0.0
Channel							
				24.0	24.0	24.0	
Frequency (MHz)							
				24.0	24.0	24.0	
5	QPSK	1	1	24.41	24.51	24.43	1.0

n30_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq. 164950	Mid. Ch. Freq. 165000	High Ch. Freq. 165050	
Channel							
10	PSSBPSK	1	1				
Frequency (MHz)							
				18.72			
10	PSSBPSK	1	26				18.0
10	PSSBPSK	1	50				0.0
10	PSSBPSK	25	0				18.0
10	PSSBPSK	25	14				0.0
10	PSSBPSK	25	27				18.0
10	PSSBPSK	50	0				0.0
10	QPSK	1	1				18.0
10	QPSK	1	26				0.0
10	QPSK	1	50				18.0
10	QPSK	25	0				0.0
10	QPSK	25	14				18.0
10	QPSK	25	27				0.0
10	MSKAM	1	1				18.0
10	MSKAM	1	1				0.0
10	MSKAM	1	1				18.0
10	MSKAM	1	1				0.0
Channel							
				20.0	20.0	20.0	
Frequency (MHz)							
				20.0	20.0	20.0	
5	QPSK	1	1	24.54	24.54	24.51	1.0



n30_Ant 2									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PUSC-BPSK	1	1	19.73			19.0	0.0	
10	PUSC-BPSK	1	26	19.67			19.0	0.0	
10	PUSC-BPSK	1	50	19.65			19.0	0.0	
10	PUSC-BPSK	25	0	19.67			19.0	0.0	
10	PUSC-BPSK	25	14	19.67			19.0	0.0	
10	PUSC-BPSK	25	27	19.65			19.0	0.0	
10	PUSC-BPSK	50	0	19.65			19.0	0.0	
10	QPSK	1	1	19.75			18.0	0.0	
10	QPSK	1	26	19.71			18.0	0.0	
10	QPSK	1	50	19.72			18.0	0.0	
10	QPSK	25	0	19.72			18.0	0.0	
10	QPSK	25	14	19.72			18.0	0.0	
10	QPSK	25	27	19.72			18.0	0.0	
10	QPSK	50	0	19.71			18.0	0.0	
10	MSKAM	1	1	19.64			19.0	0.0	
10	MSKAM	1	1	19.65			19.0	0.0	
10	MSKAM	1	1	19.67			19.0	0.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	19.74	19.74	19.74	18.0	0.0	

n30_Ant 7									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PUSC-BPSK	1	1	22.78			24.0	0.0	
10	PUSC-BPSK	1	26	22.69			24.0	0.0	
10	PUSC-BPSK	1	50	22.70			24.0	0.0	
10	PUSC-BPSK	25	0	22.71			24.0	0.0	
10	PUSC-BPSK	25	14	22.68			24.0	0.0	
10	PUSC-BPSK	25	27	22.70			24.0	0.0	
10	PUSC-BPSK	50	0	22.69			24.0	0.0	
10	QPSK	1	1	22.80			24.5	0.0	
10	QPSK	1	26	22.73			24.5	0.0	
10	QPSK	1	50	22.72			24.5	0.0	
10	QPSK	25	0	22.73			24.5	0.0	
10	QPSK	25	14	22.68			24.5	0.0	
10	QPSK	25	27	22.73			24.5	0.0	
10	QPSK	50	0	22.69			24.5	0.0	
10	MSKAM	1	1	22.80			24.5	0.0	
10	MSKAM	1	1	22.81			24.5	0.0	
10	MSKAM	1	1	22.83			24.5	0.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	22.83	22.83	22.83	24.5	0.0	

n66_Ant 1									
EW (MHz)	Modulation	RB 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	PUSC-BPSK	1	1	24.42	24.50	24.45			
40	PUSC-BPSK	1	108	24.35	24.40	24.34	25.0	0.0	
40	PUSC-BPSK	1	214	24.35	24.43	24.34			
40	PUSC-BPSK	108	0	24.37	24.50	24.34	24.5	0.0	
40	PUSC-BPSK	108	54	24.33	24.45	24.30	25.0	0.0	
40	PUSC-BPSK	108	108	24.30	24.50	24.31	24.5	0.0	
40	PUSC-BPSK	216	0	24.39	24.55	24.33	24.5	0.0	
40	QPSK	1	1	24.45	24.50	24.45			
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0	
40	QPSK	1	214	24.31	24.43	24.33			
40	QPSK	108	0	24.32	24.43	24.28	24.0	0.0	
40	QPSK	108	54	24.31	24.50	24.25	25.0	0.0	
40	QPSK	108	108	24.28	24.52	24.27	24.0	0.0	
40	MSKAM	1	1	24.52	24.55	24.50			
40	MSKAM	1	1	24.25	24.33	24.28	24.0	0.0	
40	MSKAM	1	1	24.00	24.00	24.00	24.5	0.0	
40	MSKAM	1	1	19.81	19.88	19.82	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.50	24.50	24.50	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.20	24.47	24.41	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.15	24.45	24.34	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.20	24.42	24.33	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.15	24.45	24.41	25.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.24	24.48	24.34	25.0	0.0	



n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Power (W)	Media Ch. Power (W)	High Ch. Power (W)			
Channel									
40	P102 BPSK	1	1	24.42	24.50	24.45	20.0	0.0	
Frequency (MHz)									
40	P102 BPSK	1	108	24.29	24.49	24.34	20.0	0.0	
40	P102 BPSK	1	214	24.35	24.43	24.34	24.5	0.5	
40	P102 BPSK	108	0	24.31	24.39	24.34	20.0	0.0	
40	P102 BPSK	108	54	24.33	24.45	24.39	20.0	0.0	
40	P102 BPSK	108	108	24.30	24.39	24.37	24.5	0.5	
40	P102 BPSK	216	0	24.29	24.35	24.31	24.5	0.5	
40	QPSK	1	1	24.45	24.53	24.48	20.0	0.0	
40	QPSK	1	108	24.31	24.45	24.35	20.0	0.0	
40	QPSK	1	214	24.33	24.43	24.33	24.0	1.0	
40	QPSK	108	0	24.32	24.43	24.32	20.0	0.0	
40	QPSK	108	54	24.31	24.36	24.32	20.0	0.0	
40	QPSK	108	108	24.28	24.32	24.27	24.0	1.0	
40	QPSK	216	0	24.32	24.39	24.32	24.0	1.0	
40	MCSAM	1	1	24.50	24.58	24.57	22.5	2.5	
40	MCSAM	1	1	19.81	19.85	19.87	20.5	4.5	
Channel									
Frequency (MHz)	1	1	1	19.81	19.85	19.87	20.5	4.5	
15	QPSK	1	1	17.23	17.43	17.43	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)	1	1	1	17.23	17.43	17.43	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.20	24.47	24.41	20.0	0.0	
Channel									
Frequency (MHz)	1	1	1	17.23	17.43	17.43	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	24.30	24.50	24.50	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)	1	1	1	24.30	24.43	24.39	20.0	0.0	
15	QPSK	1	1	17.20	17.40	17.40	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)	1	1	1	17.20	17.40	17.40	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.25	24.43	24.43	20.0	0.0	
Channel									
Frequency (MHz)	1	1	1	24.24	24.48	24.34	20.0	0.0	

n66_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Power (W)	Media Ch. Power (W)	High Ch. Power (W)			
Channel									
40	P102 BPSK	1	1	22.89	22.92	22.83	24.5	0.5	
40	P102 BPSK	1	108	22.72	22.85	22.78	24.5	0.5	
40	P102 BPSK	1	214	22.82	22.89	22.73	24.0	0.5	
40	P102 BPSK	108	0	22.79	22.92	22.75	24.0	0.5	
40	P102 BPSK	108	54	22.78	22.83	22.76	24.0	0.5	
40	P102 BPSK	108	108	22.75	22.82	22.76	24.0	0.5	
40	P102 BPSK	216	0	22.78	22.83	22.74	24.0	0.5	
40	QPSK	1	1	22.92	22.95	22.85	24.5	0.5	
40	QPSK	1	108	22.82	22.88	22.83	24.5	0.5	
40	QPSK	1	214	22.84	22.92	22.76	24.0	0.5	
40	QPSK	108	0	21.70	21.82	21.69	23.0	1.0	
40	QPSK	108	54	22.74	22.80	22.76	24.5	0.5	
40	QPSK	108	108	21.88	21.73	21.87	23.0	1.0	
40	QPSK	216	0	21.70	21.80	21.84	23.0	1.0	
40	MCSAM	1	1	21.78	21.80	21.79	23.0	1.0	
40	MCSAM	1	1	18.21	18.42	18.27	22.0	2.5	
40	MCSAM	1	1	18.37	18.35	18.20	20.0	4.5	
Channel									
Frequency (MHz)	1	1	1	17.23	17.43	17.43	Turn-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.82	22.83	22.83	24.5	1.0	
Channel									
Frequency (MHz)	1	1	1	22.82	22.83	22.82	24.5	0.5	
20	QPSK	1	1	22.82	22.83	22.82	24.5	1.0	
Channel									
Frequency (MHz)	1	1	1	22.82	22.83	22.82	24.5	1.0	
15	QPSK	1	1	22.81	22.84	22.83	24.5	0.5	
Channel									
Frequency (MHz)	1	1	1	17.15	17.43	17.13	Turn-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.82	22.83	22.82	24.5	1.0	
Channel									
Frequency (MHz)	1	1	1	22.79	22.84	22.75	24.5	0.5	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Power (W)	Media Ch. Power (W)	High Ch. Power (W)			
Channel									
20	P102 BPSK	1	1	24.43	24.50	24.55	24.0	0.0	
20	P102 BPSK	1	30	24.37	24.45	24.40	24.0	0.0	
20	P102 BPSK	1	104	24.33	24.52	24.47	24.0	0.0	
20	P102 BPSK	30	0	24.30	24.50	24.31	24.5	0.5	
20	P102 BPSK	30	24	24.35	24.54	24.44	24.0	0.0	
20	P102 BPSK	30	56	24.30	24.37	24.31	24.5	0.5	
20	P102 BPSK	100	0	24.32	24.55	24.38	24.5	0.5	
20	QPSK	1	1	24.45	24.53	24.50	24.0	0.0	
20	QPSK	1	30	24.48	24.53	24.40	24.0	0.0	
20	QPSK	1	104	24.45	24.50	24.51	24.0	0.0	
20	QPSK	30	0	24.49	24.59	24.43	24.0	1.0	
20	QPSK	30	24	24.45	24.54	24.50	24.0	0.0	
20	QPSK	30	56	24.42	24.58	24.49	24.0	1.0	
20	QPSK	100	0	24.43	24.55	24.50	24.0	1.0	
20	MCSAM	1	1	21.14	21.30	21.12	23.5	2.5	
20	MCSAM	1	1	19.73	19.83	19.72	23.5	4.5	
Channel									
Frequency (MHz)	1	1	1	19.73	19.83	19.72	23.5	4.5	
15	P102 BPSK	1	1	24.43	24.50	24.42	24.0	0.0	
Channel									
Frequency (MHz)	1	1	1	24.43	24.50	24.51	24.0	0.0	
10	P102 BPSK	1	1	24.43	24.50	24.51	24.0	0.0	
Channel									
Frequency (MHz)	1	1	1	24.43	24.50	24.51	24.0	0.0	



n71_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Totalsq (dBm)	APRS (dB)
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSSC	1	1	24.43	24.43	24.43		0.0
10	PCF-SFSSC	1	50	24.37	24.40	24.40	20.0	0.0
10	PCF-SFSSC	1	104	24.33	24.32	24.27		
10	PCF-SFSSC	50	0	23.79	24.05	23.95	20.0	0.0
10	PCF-SFSSC	50	26	24.35	24.34	24.34	20.0	0.0
10	PCF-SFSSC	50	50	23.79	23.97	23.95		
10	PCF-SFSSC	100	0	23.42	24.05	23.98	20.0	0.0
10	QPSK	1	1	24.40	24.43	24.40		
10	QPSK	1	50	24.40	24.43	24.40	20.0	0.0
10	QPSK	50	0	23.49	23.59	23.43	20.0	1.0
10	QPSK	50	26	24.40	24.34	24.30	20.0	1.0
10	QPSK	50	50	23.42	23.58	23.49		
10	QPSK	100	0	23.42	23.95	23.30	20.0	1.0
10	16QAM	1	1	23.98	23.92	23.98	20.0	1.0
10	16QAM	1	1	23.94	23.95	23.94		
10	256QAM	1	1	19.33	19.33	19.32	21.0	4.0
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSSC	1	1	24.43	24.43	24.43	20.0	1.0
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSSC	1	1	24.43	24.43	24.43	20.0	0.0
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSSC	1	1	24.43	24.43	24.43	20.0	1.0



n38_Ant 1									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	24.23	24.26	24.29			
40	P12 BPSK	1	83	24.27	24.30	24.31	25.0	0.0	
40	P12 BPSK	1	104	24.20	24.23	24.24			
40	P12 BPSK	50	0	23.74	23.82	23.74	24.5	0.5	
40	P12 BPSK	50	28	24.20	24.32	24.23	25.0	0.0	
40	P12 BPSK	28	0	23.89	23.89	23.74	24.5	0.5	
40	P12 BPSK	100	0	23.74	23.74	23.74	24.5	0.5	
40	QPSK	1	1	24.28	24.42	24.35			
40	QPSK	1	83	24.28	24.33	24.30	25.0	0.0	
40	QPSK	1	104	24.17	24.26	24.20			
40	QPSK	50	0	23.15	23.25	23.15	25.0	0.0	
40	QPSK	50	28	24.23	24.35	24.27	25.0	0.0	
40	QPSK	50	56	23.84	23.84	23.84	25.0	0.0	
40	QPSK	100	0	23.15	23.22	23.09	24.0	1.0	
40	16QAM	1	1	23.04	23.18	23.09	24.0	1.0	
40	16QAM	50	56	23.14	23.26	23.11	24.0	1.0	
40	256QAM	1	1	21.75	21.82	21.71	23.5	2.5	
40	256QAM	1	1	19.75	19.84	19.70	20.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.28	24.30	24.19	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.28	24.30	24.19	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.23	24.35	24.29	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.24	24.35	24.23	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.77.51	23.81	23.72.49			
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.77.51	23.81	23.72.49			
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.22	24.27	24.20	25.0	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	24.23	24.26	24.29			
40	P12 BPSK	1	83	24.27	24.30	24.31	25.0	0.0	
40	P12 BPSK	1	104	24.20	24.23	24.24			
40	P12 BPSK	50	0	23.74	23.82	23.74	24.5	0.5	
40	P12 BPSK	50	28	24.20	24.32	24.23	25.0	0.0	
40	P12 BPSK	28	0	23.89	23.89	23.74	24.5	0.5	
40	P12 BPSK	100	0	23.74	23.74	23.74	24.5	0.5	
40	QPSK	1	1	24.28	24.42	24.35			
40	QPSK	1	83	24.28	24.33	24.30	25.0	0.0	
40	QPSK	1	104	24.17	24.26	24.20			
40	QPSK	50	0	23.15	23.25	23.15	25.0	0.0	
40	QPSK	50	28	24.23	24.35	24.27	25.0	0.0	
40	QPSK	50	56	23.84	23.84	23.84	25.0	0.0	
40	QPSK	100	0	23.15	23.22	23.09	24.0	1.0	
40	16QAM	1	1	23.04	23.18	23.09	24.0	1.0	
40	16QAM	50	56	23.14	23.26	23.11	24.0	1.0	
40	256QAM	1	1	21.75	21.82	21.71	23.5	2.5	
40	256QAM	1	1	19.75	19.84	19.70	20.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.28	24.30	24.19	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.28	24.30	24.19	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	24.23	24.35	24.29	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.24	24.35	24.23	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.77.51	23.81	23.72.49			
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.77.51	23.81	23.72.49			
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.20	24.27	24.20	25.0	0.0	

n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	23.41	23.43	23.42			
100	P12 BPSK	1	187	23.30	23.45	23.43	25.0	0.0	
100	P12 BPSK	1	271	23.39	23.37	23.38			
100	P12 BPSK	186	0	23.26	23.45	23.38	25.0	0.0	
100	P12 BPSK	136	66	23.28	23.39	23.39	25.0	0.0	
100	P12 BPSK	136	109	23.26	23.46	23.43	25.0	0.0	
100	P12 BPSK	270	0	23.35	23.48	23.45	25.0	0.0	
100	QPSK	1	1	23.45	23.39	23.35			
100	QPSK	1	187	23.35	23.42	23.41	25.0	0.0	
100	QPSK	1	271	23.46	23.33	23.41			
100	QPSK	186	0	23.30	23.38	23.38	25.0	0.0	
100	QPSK	136	66	23.30	23.41	23.37	25.0	0.0	
100	QPSK	136	109	23.28	23.49	23.44	25.0	0.0	
100	QPSK	270	0	23.01	23.13	23.04	25.0	0.0	
100	16QAM	1	1	21.48	21.53	21.39	25.0	0.0	
100	16QAM	50	100	21.32	21.45	21.34	25.0	0.0	
100	256QAM	1	1	21.86	21.92	21.85	23.0	2.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.33	23.49	23.42	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.36	23.54	23.48	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.30	23.53	23.42	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.36	23.52	23.47	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.39	23.52	23.43	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.53	23.44	25.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.35	23.41	23.47	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.44	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.38	23.43	23.47	25.0	0.0	





### n41\_Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.41	23.53	23.52		
100	P12 BPSK	1	137	23.32	23.45	23.00	25.0	0.0
100	P12 BPSK	1	271	23.29	23.37	23.36		
100	P12 BPSK	155	9	23.29	23.45	23.36	25.0	0.0
100	P12 BPSK	155	69	23.29	23.39	23.39	25.0	0.0
100	P12 BPSK	155	137	23.26	23.46	23.41		
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.59	23.55		
100	QPSK	1	137	23.35	23.49	23.08	25.0	0.0
100	QPSK	1	271	23.48	23.53	23.41		
100	QPSK	155	9	23.27	23.38	23.34		
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0
100	QPSK	155	137	23.32	23.40	23.34		
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0
100	TDMA	1	1	23.48	23.53	23.39	25.0	0.0
100	TDMA	1	1	23.35	23.50	23.43	25.0	0.0
100	25GDM	1	1	21.85	21.95	21.85	23.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.53	23.43	23.42	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.30	23.54	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.26	20.29	20.39	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.32	23.42	23.43	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.33	23.43	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.33	23.43	23.47	25.0	0.0

### n41\_HPUE\_Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	26.12	26.24	26.10		
100	P12 BPSK	1	137	26.00	26.14	26.03	27.5	0.0
100	P12 BPSK	1	271	26.27	26.38	26.35		
100	P12 BPSK	155	9	26.37	26.47	26.56	27.0	0.5
100	P12 BPSK	155	69	26.13	26.18	26.08	27.5	0.0
100	P12 BPSK	155	137	26.22	26.28	26.25		
100	P12 BPSK	270	9	26.05	26.08	26.05	27.0	0.5
100	QPSK	1	1	26.10	26.38	26.33		
100	QPSK	1	137	26.03	26.11	26.08	27.5	0.0
100	QPSK	1	271	26.31	26.29	26.11		
100	QPSK	155	9	26.04	26.15	26.37	28.5	1.0
100	QPSK	155	69	26.04	26.09	26.08	27.5	0.5
100	QPSK	155	137	26.09	26.26	26.25		
100	QPSK	270	9	25.99	26.26	26.25	28.5	1.0
100	TDMA	1	1	25.90	25.16	25.05	26.0	1.0
100	TDMA	1	1	25.36	25.22	25.07	25.0	2.5
100	25GDM	1	1	21.68	21.77	21.82	23.0	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.98	26.17	26.07	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.98	26.17	26.08	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.98	26.16	26.03	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.26	20.29	20.39	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.30	23.49	23.42	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.47	23.47	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.58	23.45	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.15	23.54	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.32	23.17	23.56	27.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.41	23.53	23.52		
100	P12 BPSK	1	137	23.32	23.45	23.43	25.0	0.0
100	P12 BPSK	1	271	23.29	23.37	23.36		
100	P12 BPSK	155	9	23.29	23.45	23.36	25.0	0.0
100	P12 BPSK	155	69	23.29	23.39	23.39	25.0	0.0
100	P12 BPSK	155	137	23.26	23.46	23.41		
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.59	23.55		
100	QPSK	1	137	23.35	23.49	23.41	25.0	0.0
100	QPSK	1	271	23.48	23.53	23.41		
100	QPSK	155	9	23.27	23.38	23.32		
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0
100	QPSK	155	137	23.32	23.40	23.34		
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0
100	TDMA	1	1	23.48	23.53	23.39	25.0	0.0
100	TDMA	1	1	23.35	23.50	23.43	25.0	0.0
100	25GDM	1	1	21.88	21.92	21.85	23.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.53	23.43	23.42	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.30	23.54	23.49	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.26	20.29	20.39	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.32	23.42	23.43	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.33	23.43	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.33	23.43	23.47	25.0	0.0





n41_HPUE_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	28.12	28.24	28.10			
100	P12 BPSK	1	137	28.00	28.24	28.03	27.5	0.0	
100	P12 BPSK	1	271	28.27	28.38	28.25			
100	P12 BPSK	155	9	28.27	28.37	28.34	27.5	0.5	
100	P12 BPSK	155	69	28.13	28.18	28.08	27.5	0.0	
100	P12 BPSK	155	138	28.12	28.18	28.08	27.0	0.5	
100	P12 BPSK	155	0	28.00	28.00	28.00			
100	QPSK	1	137	28.10	28.38	28.33	27.5	0.0	
100	QPSK	1	271	28.21	28.29	28.11			
100	QPSK	155	9	28.27	28.29	28.34	28.5	1.0	
100	QPSK	155	69	28.04	28.09	28.08	27.5	0.0	
100	QPSK	155	138	28.10	28.20	28.07	26.5	1.0	
100	QPSK	155	0	28.00	28.00	28.00			
100	TDMA	1	1	28.00	28.16	28.05	28.5	0.0	
100	TDMA	1	1	28.00	28.07	28.07	28.0	0.5	
100	25GQAM	1	1	28.00	28.00	28.00			
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.07	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.07	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.00	28.16	28.03	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.09	28.08			
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.04	28.11	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	28.00	28.19	28.02	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.07	28.05	27.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	28.00	28.17	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.00	28.08	28.06	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	28.00	28.19	28.02	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.00	28.07	28.05	27.5	0.0	

n48_Part96_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.36	22.45	22.37	23.5	0.5	
40	P12 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	46	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.18	22.50	22.30			
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	46	22.16	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GQAM	1	1	20.05	20.13	20.05	23.5	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.38	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

n48_Part96_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.36	22.45	22.37	23.5	0.5	
40	P12 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	46	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.18	22.50	22.30			
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	46	22.16	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GQAM	1	1	20.05	20.13	20.05	23.5	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.38	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	



n48_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit	MPR	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.50	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.48	22.54	22.43			
40	PB2 BPSK	50	8	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	PB2 BPSK	50	28	22.38	22.48	22.39	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.50	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	58	22.28	22.38	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	8	22.18	22.24	22.20	23.5	0.0	
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.20	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.16	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83800	84160	84520	Tune-up limit	MPR	
Frequency (MHz)				3555.00	3624.99	3694.98	(dBm)	(dB)	
30	QPSK	1	1	22.29	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit	MPR	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83788	84166	84616	Tune-up limit	MPR	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

n48_Part96_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit	MPR	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.50	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.48	22.54	22.43			
40	PB2 BPSK	50	8	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	PB2 BPSK	50	28	22.38	22.48	22.39	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.50	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	58	22.28	22.38	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	8	22.18	22.24	22.20	23.5	0.0	
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.20	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.16	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83800	84160	84520	Tune-up limit	MPR	
Frequency (MHz)				3555.00	3624.99	3694.98	(dBm)	(dB)	
30	QPSK	1	1	22.29	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit	MPR	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83788	84166	84616	Tune-up limit	MPR	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	







Par27Q n77\_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for various modulation schemes like Pi2 BPSK, QPSK, and HDQAM across different bandwidths and power levels.

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Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for various modulation schemes like Pi2 BPSK, QPSK, and HDQAM across different bandwidths and power levels.

Par27Q n77\_Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for various modulation schemes like Pi2 BPSK, QPSK, and HDQAM across different bandwidths and power levels.



### Par270 n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	26.26	26.26	26.26		
100	P12 BPSK	1	137	26.27	26.27	26.29	27.5	0.0
100	P12 BPSK	1	271	26.70	26.70	26.64		
100	P12 BPSK	135	9	26.62	26.52	26.55	27.0	0.5
100	P12 BPSK	135	89	26.63	26.68	26.59	27.5	0.0
100	P12 BPSK	135	138	26.62	26.69	26.57	27.0	0.5
100	P12 BPSK	270	0	26.50	26.37	26.30		
100	QPSK	1	1	26.52	26.52	26.51		
100	QPSK	1	137	26.43	26.49	26.54	27.5	0.0
100	QPSK	1	271	26.54	26.72	26.71		
100	QPSK	135	0	26.70	26.52	26.59		
100	QPSK	135	89	26.24	26.50	26.51	27.5	0.0
100	QPSK	135	138	26.69	26.61	26.86		
100	QPSK	270	0	26.70	26.61	26.67	26.5	0.0
100	HQAM	1	1	26.50	26.51	26.59	26.5	1.0
100	HQAM	1	137	26.41	26.46	26.33	26.0	0.5
100	HQAM	1	271	26.28	26.51	26.51	26.0	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	16498	16500	16232	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16492	16490	16498	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12451	12450	12459	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12450	12450	12459	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	84000	82000	83000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	84000	84000	84000	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	44000	44000	44000	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	44000	44000	44000	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24500	24500	24500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24500	24500	24500	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14500	14500	14500	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	14500	14500	14500	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	7450	7450	7450	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	7450	7450	7450	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3650	3650	3650	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3650	3650	3650	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2650	2650	2650	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	2650	2650	2650	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	1650	1650	1650	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	1650	1650	1650	27.5	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.29	23.29	23.29		
100	P12 BPSK	1	137	23.45	23.45	23.45	26.0	0.0
100	P12 BPSK	1	271	23.64	23.64	23.64		
100	P12 BPSK	135	9	23.30	23.30	23.30	26.0	0.0
100	P12 BPSK	135	89	23.47	23.47	23.47	26.0	0.0
100	P12 BPSK	135	138	23.44	23.44	23.44	26.0	0.0
100	P12 BPSK	270	0	23.32	23.32	23.32		
100	QPSK	1	1	23.34	23.34	23.34		
100	QPSK	1	137	23.34	23.34	23.34	26.0	0.0
100	QPSK	1	271	23.44	23.44	23.44		
100	QPSK	135	0	23.47	23.47	23.47	26.0	0.0
100	QPSK	135	89	23.40	23.40	23.40	26.0	0.0
100	QPSK	135	138	23.44	23.44	23.44	26.0	0.0
100	QPSK	270	0	23.36	23.36	23.36		
100	HQAM	1	1	23.34	23.34	23.34	26.0	0.0
100	HQAM	1	137	23.32	23.32	23.32	26.0	0.0
100	HQAM	1	271	23.29	23.29	23.29	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13300	13332	13388	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	13300	13300	13300	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	8288	8288	8288	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	8288	8288	8288	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	4288	4288	4288	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	4288	4288	4288	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2288	2288	2288	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	2288	2288	2288	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	1288	1288	1288	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	1288	1288	1288	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	688	688	688	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	688	688	688	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	388	388	388	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	388	388	388	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	288	288	288	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	288	288	288	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	188	188	188	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	188	188	188	26.0	0.0

### Par27Q n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	26.22	26.22	26.22		
100	P12 BPSK	1	137	26.23	26.23	26.23	27.5	0.0
100	P12 BPSK	1	271	26.36	26.36	26.36		
100	P12 BPSK	135	9	26.04	26.04	26.04	27.0	0.5
100	P12 BPSK	135	89	26.21	26.21	26.21	27.5	0.0
100	P12 BPSK	135	138	26.10	26.10	26.10	27.0	0.5
100	P12 BPSK	270	0	26.00	26.00	26.00		
100	QPSK	1	1	26.08	26.08	26.08		
100	QPSK	1	137	26.00	26.00	26.00	27.5	0.0
100	QPSK	1	271	26.30	26.30	26.30		
100	QPSK	135	0	26.37	26.37	26.37	27.5	0.0
100	QPSK	135	89	26.17	26.17	26.17	27.5	0.0
100	QPSK	135	138	26.53	26.53	26.53		
100	QPSK	270	0	26.54	26.54	26.54	26.0	1.0
100	HQAM	1	1	26.44	26.44	26.44	26.0	1.0
100	HQAM	1	137	26.06	26.06	26.06	26.0	2.0
100	HQAM	1	271	26.00	26.00	26.00	26.0	2.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16300	16332	16388	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16300	16300	16300	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12300	12332	12388	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12300	12300	12300	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	8300	8332	8388	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	8300	8300	8300	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	4300	4332	4388	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	4300	4300	4300	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2300	2332	2388	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	2300	2300	2300	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	1300	1332	1388	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	1300	1300	1300	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	700	732	788	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	700	700	700	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	300	332	388	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	300	300	300	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	200	232	288	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	200	200	200	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	100	132	188	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	100	100	100	27.5	0.0



### Par270 n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.85	23.34	24.82		
100	PI2 BPSK	1	137	23.77	25.24	25.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	25.32	25.77		
100	PI2 BPSK	135	9	23.95	25.07	23.51	25.0	0.0
100	PI2 BPSK	135	89	23.83	25.43	23.77	25.0	0.0
100	PI2 BPSK	135	138	23.72	25.85	23.76	25.0	0.0
100	PI2 BPSK	270	9	23.70	23.85	23.89	25.0	0.0
100	QPSK	1	1	21.81	23.13	24.14		
100	QPSK	1	137	23.74	25.79	23.82	25.0	0.0
100	QPSK	1	271	23.81	23.28	23.88		
100	QPSK	135	9	23.70	23.84	23.82		
100	QPSK	135	89	23.81	23.85	23.81	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81		
100	QPSK	270	9	23.80	23.80	23.80	25.0	0.0
100	HDQAM	1	1	23.80	23.81	23.80	25.0	0.0
100	HDQAM	1	137	23.75	23.80	23.75	25.0	0.0
100	HDQAM	1	271	23.77	23.77	23.77		
Channel								
Frequency (MHz)								
96	QPSK	1	1	23.71	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.73	24.09	24.05	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.78	24.01	23.96	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.76	23.77	23.68	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.75	23.91	23.94	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.72	24.02	24.02	25.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	23.70	23.99	24.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.72	24.03	24.05	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.73	24.02	23.98	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.08	24.02	25.0	0.0

### Par270 n77 HPUE\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	26.70	26.76	26.82		
100	PI2 BPSK	1	137	26.81	26.87	26.89	27.5	0.0
100	PI2 BPSK	1	271	26.70	26.76	26.84		
100	PI2 BPSK	135	9	26.80	26.82	26.76	27.5	0.0
100	PI2 BPSK	135	89	26.83	26.88	26.90	27.5	0.0
100	PI2 BPSK	135	138	26.82	26.89	26.87	27.5	0.0
100	PI2 BPSK	270	9	26.80	26.87	26.80	27.5	0.0
100	QPSK	1	1	26.78	26.82	26.81		
100	QPSK	1	137	26.83	26.88	26.84	27.5	0.0
100	QPSK	1	271	26.74	26.72	26.52		
100	QPSK	135	9	26.78	26.82	26.86	27.5	0.0
100	QPSK	135	89	26.83	26.85	26.87	27.5	0.0
100	QPSK	135	138	26.89	26.81	26.88		
100	QPSK	270	9	26.74	26.81	26.80	27.5	0.0
100	HDQAM	1	1	26.85	26.91	26.79	25.0	1.0
100	HDQAM	1	137	26.81	26.86	26.83	25.0	1.0
100	HDQAM	1	271	26.88	26.81	26.84	25.0	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.82	26.72	26.83	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	26.81	26.88	26.81	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.88	26.89	26.88	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.85	26.89	26.88	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.86	26.83	26.88	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.81	26.88	26.81	27.5	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	26.80	26.83	26.86	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.84	26.89	26.83	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.86	26.82	26.88	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.85	26.86	26.88	27.5	0.0

### Par270 n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.58	23.58	23.58		
100	PI2 BPSK	1	137	23.45	23.45	23.45	25.0	0.0
100	PI2 BPSK	1	271	23.54	23.54	23.54		
100	PI2 BPSK	135	9	23.36	23.36	23.36	25.0	0.0
100	PI2 BPSK	135	89	23.47	23.47	23.47	25.0	0.0
100	PI2 BPSK	135	138	23.48	23.48	23.48	25.0	0.0
100	PI2 BPSK	270	9	23.47	23.47	23.47	25.0	0.0
100	QPSK	1	1	23.55	23.55	23.55		
100	QPSK	1	137	23.34	23.34	23.34	25.0	0.0
100	QPSK	1	271	23.54	23.54	23.54		
100	QPSK	135	9	23.47	23.47	23.47	25.0	0.0
100	QPSK	135	89	23.45	23.45	23.45	25.0	0.0
100	QPSK	135	138	23.44	23.44	23.44	25.0	0.0
100	QPSK	270	9	23.39	23.39	23.39	25.0	0.0
100	HDQAM	1	1	23.52	23.52	23.52	25.0	0.0
100	HDQAM	1	137	23.34	23.34	23.34	25.0	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	23.52	23.45	23.57	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.49	25.0	1.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.49	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.59	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.53	23.34	23.53	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.48	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.45	23.30	23.48	25.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	23.47	23.33	23.51	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.50	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.51	25.0	0.0



Par27Q n77 HPUE\_Ant 10

BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power Hgh. Ch. / Freq.	Tune-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 QPSK	1	1	26.22	26.22			
100	PL2 QPSK	1	137	26.23	26.23		27.5	0.0
100	PL2 QPSK	1	271	26.26	26.26			
100	PL2 QPSK	135	6	26.04	26.04		27.5	0.0
100	PL2 QPSK	135	69	26.21	26.21		27.5	0.0
100	PL2 QPSK	135	138	26.10	26.10		27.5	0.0
100	PL2 QPSK	270	0	26.09	26.09		27.5	0.0
100	QPSK	1	1	26.36	26.36			
100	QPSK	1	137	26.09	26.09		27.5	0.0
100	QPSK	1	271	26.36	26.36			
100	QPSK	135	6	26.57	26.57			
100	QPSK	135	69	26.51	26.51		27.5	0.0
100	QPSK	135	138	26.53	26.53			
100	QPSK	270	0	26.54	26.54		26.5	1.0
100	QPSK	1	1	26.44	26.44		26.5	1.0
100	8QAM	1	1	26.06	26.06		26.0	2.0
100	8QAM	1	1	26.06	26.06		26.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83330	83360	Tune-up time (min)	MPR (dB)
				3465	3469.98	3474.97		
				26.25	26.24	26.26	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83295	83325	83355	Tune-up time (min)	MPR (dB)
				3460.02	3464.98	3469.97		
				26.29	26.31	26.31	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	83284	83312	83342	Tune-up time (min)	MPR (dB)
				82600	82632	82664		
				26.32	26.30	26.28	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83269	83297	83327	Tune-up time (min)	MPR (dB)
				3450	3454.98	3459.97		
				26.33	26.25	26.39	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83166	83194	83224	Tune-up time (min)	MPR (dB)
				3472.02	3476.98	3481.97		
				26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	83134	83162	83192	Tune-up time (min)	MPR (dB)
				3470.01	3474.98	3479.97		
				26.25	26.31	26.34	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	83100	83128	83158	Tune-up time (min)	MPR (dB)
				3465	3469.98	3474.97		
				26.33	26.33	26.27	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	83084	83112	83142	Tune-up time (min)	MPR (dB)
				3460.01	3464.98	3469.97		
				26.32	26.28	26.33	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	83068	83096	83126	Tune-up time (min)	MPR (dB)
				3450.02	3454.98	3459.97		
				26.33	26.33	26.34	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	83029	83057	83087	Tune-up time (min)	MPR (dB)
				3457.5	3462.5	3467.5		
				26.23	26.22	26.33	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	83034	83062	83092	Tune-up time (min)	MPR (dB)
				3450.01	3454.98	3459.97		
				26.31	26.31	26.33	27.5	0.0





n2_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	P16Q BPSK	1	1	23.50	23.50	23.88	0.0
20	P16Q BPSK	1	53	23.50	23.50	23.75	25.0
20	P16Q BPSK	1	104	23.50	23.85	23.77	24.5
20	P16Q BPSK	50	0	23.50	23.50	23.75	24.5
20	P16Q BPSK	50	28	23.50	23.85	23.88	25.0
20	P16Q BPSK	50	56	23.50	23.50	23.75	24.5
20	P16Q BPSK	100	0	23.50	23.50	23.75	24.5
20	QPSK	1	1	23.50	23.50	23.88	0.0
20	QPSK	1	53	23.50	23.50	23.88	25.0
20	QPSK	1	104	23.50	23.50	23.88	24.0
20	QPSK	50	0	23.50	23.50	23.88	25.0
20	QPSK	50	28	23.50	23.50	23.88	24.0
20	QPSK	50	56	23.50	23.50	23.88	24.0
20	16QAM	1	1	23.50	23.50	23.88	24.0
20	16QAM	1	1	23.48	23.48	23.48	25.0
20	16QAM	1	1	19.40	19.53	19.44	20.5
20	256QAM	1	1	19.40	19.53	19.44	20.5
Channel							
15	QPSK	1	1	19.40	19.53	19.44	20.5
15	QPSK	1	1	19.40	19.53	19.44	20.5
Channel							
10	QPSK	1	1	19.40	19.53	19.44	20.5
Channel							
5	QPSK	1	1	19.40	19.53	19.44	20.5

State 6 Power							
n2_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	P16Q BPSK	1	1	17.00	17.00	17.28	0.0
20	P16Q BPSK	1	53	17.00	17.00	17.28	19.0
20	P16Q BPSK	1	104	17.00	17.00	17.28	19.0
20	P16Q BPSK	50	0	17.00	17.00	17.28	19.0
20	P16Q BPSK	50	28	17.00	17.00	17.28	19.0
20	P16Q BPSK	50	56	17.00	17.00	17.28	19.0
20	P16Q BPSK	100	0	17.00	17.00	17.28	19.0
20	QPSK	1	1	17.00	17.00	17.28	0.0
20	QPSK	1	53	17.00	17.00	17.28	19.0
20	QPSK	1	104	17.00	17.00	17.28	19.0
20	QPSK	50	0	17.00	17.00	17.28	19.0
20	QPSK	50	28	17.00	17.00	17.28	19.0
20	QPSK	50	56	17.00	17.00	17.28	19.0
20	16QAM	1	1	17.00	17.00	17.28	19.0
20	16QAM	1	1	17.00	17.00	17.28	19.0
20	256QAM	1	1	17.00	17.00	17.28	19.0
Channel							
15	QPSK	1	1	17.00	17.00	17.28	19.0
15	QPSK	1	1	17.00	17.00	17.28	19.0
Channel							
10	QPSK	1	1	17.00	17.00	17.28	19.0
Channel							
5	QPSK	1	1	17.00	17.00	17.28	19.0

n2_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	P16Q BPSK	1	1	22.83	22.83	22.80	0.0
20	P16Q BPSK	1	53	22.83	22.83	22.80	24.5
20	P16Q BPSK	1	104	22.83	22.83	22.80	24.5
20	P16Q BPSK	50	0	22.83	22.83	22.80	24.5
20	P16Q BPSK	50	28	22.83	22.83	22.80	24.5
20	P16Q BPSK	50	56	22.83	22.83	22.80	24.5
20	P16Q BPSK	100	0	22.83	22.83	22.80	24.5
20	QPSK	1	1	22.83	22.83	22.80	0.0
20	QPSK	1	53	22.83	22.83	22.80	24.5
20	QPSK	1	104	22.83	22.83	22.80	24.5
20	QPSK	50	0	22.83	22.83	22.80	24.5
20	QPSK	50	28	22.83	22.83	22.80	24.5
20	QPSK	50	56	22.83	22.83	22.80	24.5
20	16QAM	1	1	22.83	22.83	22.80	24.5
20	16QAM	1	1	22.83	22.83	22.80	24.5
20	256QAM	1	1	22.83	22.83	22.80	24.5
Channel							
15	QPSK	1	1	22.83	22.83	22.80	24.5
15	QPSK	1	1	22.83	22.83	22.80	24.5
Channel							
10	QPSK	1	1	22.83	22.83	22.80	24.5
Channel							
5	QPSK	1	1	22.83	22.83	22.80	24.5



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PWQ-BPSK	1	1	24.52	24.83	24.88			
20	PWQ-BPSK	1	53	24.49	24.71	24.65	20.0	0.0	
20	PWQ-BPSK	1	104	24.37	24.57	24.51			
20	PWQ-BPSK	50	0	24.36	24.56	24.52	20.5	0.5	
20	PWQ-BPSK	50	28	24.47	24.56	24.52	20.0	0.0	
20	PWQ-BPSK	50	56	24.32	24.76	24.56	20.0	0.0	
20	PWQ-BPSK	100	0	24.38	24.38	24.34	24.5	0.5	
20	QPSK	1	1	24.56	24.65	24.62			
20	QPSK	1	53	24.50	24.83	24.38	20.0	0.0	
20	QPSK	1	104	24.35	24.43	24.51			
20	QPSK	50	0	24.52	24.77	24.65	20.0	1.0	
20	QPSK	50	28	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	56	24.32	24.78	24.67	20.0	1.0	
20	QPSK	100	0	24.36	24.76	24.56	20.0	1.0	
20	16QAM	1	1	24.52	24.58	24.58			
20	16QAM	1	1	24.16	24.28	24.15	24.5	2.5	
20	256QAM	1	1	20.14	20.23	20.11	21.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	84.1	84.3	84.1			
Channel									
Frequency (MHz)									
15	QPSK	1	1	160.0	162.0	160.0			
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.82	24.89	24.85	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	84.0	84.3	84.0	24.0	1.0	

n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PWQ-BPSK	1	1	22.06	22.16	22.11			
10	PWQ-BPSK	1	50	22.02	22.03	22.02	24.0	0.0	
10	PWQ-BPSK	1	104	22.07	22.07	22.06			
10	PWQ-BPSK	50	0	22.07	22.07	22.06	24.0	0.0	
10	PWQ-BPSK	50	28	22.05	22.13	22.09	24.0	0.0	
10	PWQ-BPSK	50	56	22.00	22.06	22.06	24.0	0.0	
10	PWQ-BPSK	100	0	22.03	22.11	22.06	24.0	0.0	
10	QPSK	1	1	22.11	22.08	22.12			
10	QPSK	1	50	22.06	22.03	22.01	24.0	0.0	
10	QPSK	1	104	22.06	22.12	22.02			
10	QPSK	50	0	22.03	22.09	22.02	24.0	0.0	
10	QPSK	50	28	22.06	22.12	22.11	24.0	0.0	
10	QPSK	50	56	22.01	22.09	22.02	24.0	0.0	
10	QPSK	100	0	22.05	22.11	22.06	24.0	0.0	
10	16QAM	1	1	22.01	22.03	22.09	24.0	0.0	
10	64QAM	1	1	22.18	22.28	22.15	24.0	1.0	
10	256QAM	1	1	20.14	20.23	20.11	21.5	4.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	84.1	84.3	84.1			
Channel									
Frequency (MHz)									
10	QPSK	1	1	160.00	162.00	160.00			
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.04	22.12	22.02	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	84.0	84.3	84.0	24.0	1.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PWQ-BPSK	1	1	22.28	22.89	22.88			
40	PWQ-BPSK	1	108	22.10	22.52	22.50	20.0	0.0	
40	PWQ-BPSK	1	214	22.24	22.85	22.72			
40	PWQ-BPSK	108	0	22.57	22.52	22.52	24.5	0.5	
40	PWQ-BPSK	108	54	22.72	22.80	22.71	20.0	0.0	
40	PWQ-BPSK	108	108	22.12	22.52	22.52	24.5	0.5	
40	PWQ-BPSK	216	0	22.18	22.33	22.18	24.5	0.5	
40	QPSK	1	1	22.80	22.82	22.80			
40	QPSK	1	108	22.74	22.83	22.78	20.0	0.0	
40	QPSK	1	214	22.56	22.82	22.82			
40	QPSK	108	0	22.89	22.82	22.86	24.0	1.0	
40	QPSK	108	54	22.71	22.83	22.82	20.0	0.0	
40	QPSK	108	108	22.05	22.15	22.08	24.0	1.0	
40	16QAM	1	1	22.80	22.82	22.80			
40	16QAM	1	1	22.86	22.81	22.83	24.0	1.0	
40	64QAM	1	1	21.41	21.56	21.44	21.5	2.5	
40	256QAM	1	1	19.45	19.57	19.44	20.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.13	22.97	22.93			
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.72	22.72	22.72			
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.10	22.95	22.91			
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.03	22.84	22.84	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.14	22.95	22.91	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.10	22.10	22.10	20.0	0.0	



### n7\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 304500	Mid. Ch. Freq. 307500	High Ch. Freq. 310500		
Channel								
40	PSSB-SSB	1	1	18.81	18.81	18.88		
Frequency (MHz)								
40	PSSB-SSB	1	108	18.85	18.78	18.78	18.0	0.0
40	PSSB-SSB	1	214	18.72	18.84	18.80		
40	PSSB-SSB	108	0	18.71	18.84	18.80	18.0	0.0
40	PSSB-SSB	108	54	18.78	18.85	18.83	18.0	0.0
40	PSSB-SSB	108	108	18.65	18.77	18.87	18.0	0.0
40	PSSB-SSB	216	0	18.75	18.85	18.81	18.0	0.0
40	QPSK	1	1	18.85	18.85	18.85		
40	QPSK	1	108	18.88	18.88	18.78	18.0	0.0
40	QPSK	1	214	18.88	18.88	18.78	18.0	0.0
40	QPSK	108	0	18.88	18.78	18.74	18.0	0.0
40	QPSK	108	54	18.88	18.88	18.85	18.0	0.0
40	QPSK	108	108	18.84	18.85	18.78	18.0	0.0
40	QPSK	216	0	18.78	18.88	18.83	18.0	0.0
40	16QAM	1	1	18.78	18.88	18.81	18.0	0.0
40	16QAM	1	1	18.78	18.77	18.83	18.0	0.0
40	256QAM	1	1	18.88	18.88	18.84	18.0	0.0
Channel								
Frequency (MHz)				3075	3075	3075	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.82	18.81	18.82	18.0	0.0
Channel								
Frequency (MHz)				30750	30750	31500	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.77	18.77	18.81	18.0	0.0
Channel								
Frequency (MHz)				3075	3075	3075	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.78	18.78	18.78	18.0	0.0
Channel								
Frequency (MHz)				30750	30750	31500	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.77	18.88	18.83	18.0	0.0
Channel								
Frequency (MHz)				3075	3075	3075	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.78	18.78	18.78	18.0	0.0
Channel								
Frequency (MHz)				30650	30700	31500	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.82	18.80	18.80	18.0	0.0

### n12\_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid. Ch. Freq. 143500	High Ch. Freq. 145500		
Channel								
10	PSSB-SSB	1	1	24.48	24.53	24.50		
Frequency (MHz)								
10	PSSB-SSB	1	40	24.53	24.41	24.40	26.0	0.0
10	PSSB-SSB	1	77	24.38	24.47	24.45		
10	PSSB-SSB	40	0	24.58	24.51	24.50	25.5	0.5
10	PSSB-SSB	40	20	24.42	24.43	24.40	26.0	0.0
10	PSSB-SSB	40	40	24.51	24.53	24.50	25.5	0.5
10	PSSB-SSB	75	0	24.34	24.53	24.50	25.5	0.5
10	QPSK	1	1	24.50	24.50	24.50		
10	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
10	QPSK	1	77	24.38	24.40	24.34		
10	QPSK	40	0	24.48	24.53	24.57	26.0	1.0
10	QPSK	40	20	24.47	24.53	24.50	26.0	0.0
10	QPSK	40	40	24.48	24.58	24.50	25.0	1.0
10	QPSK	75	0	24.50	24.58	24.53	25.0	1.0
10	16QAM	1	1	24.42	24.55	24.49	26.0	1.0
10	256QAM	1	1	24.50	24.53	24.50	25.0	2.5
10	256QAM	1	1	19.98	20.04	19.94	21.0	4.0
Channel								
Frequency (MHz)				744	777.5	771	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
Frequency (MHz)				142500	143500	142500	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.43	24.42	24.38	26.0	0.0

### n12\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid. Ch. Freq. 143500	High Ch. Freq. 145500		
Channel								
15	PSSB-SSB	1	1	24.48	24.53	24.50		
Frequency (MHz)								
15	PSSB-SSB	1	40	24.53	24.41	24.40	26.0	0.0
15	PSSB-SSB	1	77	24.38	24.47	24.45		
15	PSSB-SSB	40	0	24.58	24.51	24.50	25.5	0.5
15	PSSB-SSB	40	20	24.42	24.43	24.40	26.0	0.0
15	PSSB-SSB	40	40	24.51	24.53	24.50	25.5	0.5
15	PSSB-SSB	75	0	24.34	24.53	24.50	25.5	0.5
15	QPSK	1	1	24.50	24.50	24.50		
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.38	24.50	24.34		
15	QPSK	40	0	24.48	24.53	24.57	26.0	1.0
15	QPSK	40	20	24.47	24.53	24.50	26.0	0.0
15	QPSK	40	40	24.48	24.58	24.50	25.0	1.0
15	QPSK	75	0	24.50	24.58	24.53	25.0	1.0
15	16QAM	1	1	24.42	24.55	24.49	26.0	1.0
15	256QAM	1	1	24.50	24.53	24.50	25.0	2.5
15	256QAM	1	1	19.98	20.04	19.94	21.0	4.0
Channel								
Frequency (MHz)				744	777.5	771	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
Frequency (MHz)				142500	143500	142500	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.43	24.42	24.38	26.0	0.0



n25_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power		Turn-up time (min)	MPR (dB)	Channel		
				Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)			Low Freq. (MHz)	High Freq. (MHz)	Turn-up time (min)
40	PWQ BPSK	1	1	24.30	24.45	24.41				
40	PWQ BPSK	1	108	24.27	24.36	24.32	20.0	0.0		
40	PWQ BPSK	1	214	24.24	24.42	24.33	24.5	0.5		
40	PWQ BPSK	108	0	24.25	24.40	24.33	20.0	0.0		
40	PWQ BPSK	108	108	24.26	24.35	24.31	24.5	0.5		
40	QPSK	1	1	24.43	24.53	24.48				
40	QPSK	1	108	24.31	24.47	24.31	20.0	0.0		
40	QPSK	1	214	24.24	24.46	24.35	24.0	1.0		
40	QPSK	108	0	24.25	24.40	24.34	20.0	0.0		
40	QPSK	108	108	24.22	24.34	24.28	24.0	1.0		
40	QPSK	216	0	24.21	24.38	24.29	24.0	1.0		
40	MCSAM	1	1	24.26	24.32	24.29	20.0	0.0		
40	MCSAM	1	1	19.65	19.72	19.67	20.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	24.30	24.31	24.30	20.0	0.0		
Channel										
Frequency (MHz)				27250	27600	28200	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	24.30	24.40	24.35	20.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	24.30	24.44	24.32	20.0	0.0		
Channel										
Frequency (MHz)				27150	27600	28150	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	24.30	24.40	24.35	20.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	24.30	24.32	24.31	20.0	0.0		
Channel										
Frequency (MHz)				27150	27600	28200	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	24.20	24.40	24.30	20.0	0.0		

n25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power		Turn-up time (min)	MPR (dB)	Channel		
				Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)			Low Freq. (MHz)	High Freq. (MHz)	Turn-up time (min)
40	PWQ BPSK	1	1	18.46	18.53	18.50				
40	PWQ BPSK	1	108	18.51	18.50	18.51	19.0	0.0		
40	PWQ BPSK	1	214	18.53	18.48	18.51				
40	PWQ BPSK	108	0	18.50	18.57	18.54	19.0	0.0		
40	PWQ BPSK	108	108	18.42	18.50	18.46	19.0	0.0		
40	PWQ BPSK	108	108	18.57	18.46	18.52	19.0	0.0		
40	PWQ BPSK	216	0	18.40	18.48	18.43	19.0	0.0		
40	QPSK	1	1	18.46	18.50	18.48				
40	QPSK	1	108	18.41	18.49	18.45	19.0	0.0		
40	QPSK	1	214	18.57	18.43	18.45				
40	QPSK	108	0	18.57	18.45	18.51	19.0	0.0		
40	QPSK	108	108	18.46	18.53	18.49	19.0	0.0		
40	QPSK	108	108	18.24	18.47	18.36	19.0	0.0		
40	QPSK	216	0	18.43	18.50	18.46	19.0	0.0		
40	MCSAM	1	1	18.52	18.44	18.39	19.0	0.0		
40	MCSAM	1	1	18.34	18.46	18.40	19.0	0.0		
40	MCSAM	1	1	18.42	18.44	18.39	19.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
30	QPSK	1	1	18.54	18.53	18.41	19.0	0.0		
Channel										
Frequency (MHz)				27250	27600	28200	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	18.42	18.53	18.47	19.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	18.33	18.43	18.40	19.0	0.0		
Channel										
Frequency (MHz)				27150	27600	28150	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	18.37	18.40	18.44	19.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	18.41	18.43	18.42	19.0	0.0		
Channel										
Frequency (MHz)				27150	27600	28200	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	18.24	18.41	18.30	19.0	0.0		

n25_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power		Turn-up time (min)	MPR (dB)	Channel		
				Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)			Low Freq. (MHz)	High Freq. (MHz)	Turn-up time (min)
40	PWQ BPSK	1	1	22.81	22.90	22.86				
40	PWQ BPSK	1	108	22.76	22.90	22.81	24.5	0.0		
40	PWQ BPSK	1	214	22.83	22.86	22.83				
40	PWQ BPSK	108	0	22.90	22.84	22.82	24.0	0.5		
40	PWQ BPSK	108	108	22.82	22.81	22.82	24.5	0.0		
40	PWQ BPSK	108	108	22.77	22.85	22.80	24.0	0.5		
40	PWQ BPSK	216	0	22.77	22.80	22.78				
40	QPSK	1	1	22.80	22.83	22.80				
40	QPSK	1	108	22.79	22.85	22.73	24.5	0.0		
40	QPSK	1	214	22.80	22.83	22.82				
40	QPSK	108	0	22.88	22.81	22.78	24.5	1.0		
40	QPSK	108	108	22.79	22.80	22.74	24.5	0.0		
40	QPSK	108	108	22.83	22.73	22.87				
40	MCSAM	1	1	22.80	22.83	22.76	23.5	1.0		
40	MCSAM	1	1	22.71	22.81	22.76	23.5	1.0		
40	MCSAM	1	1	22.81	22.80	22.80	23.0	0.5		
40	MCSAM	1	1	18.24	18.33	18.20	20.0	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
30	QPSK	1	1	22.82	22.81	22.80	24.5	0.0		
Channel										
Frequency (MHz)				27250	27600	28200	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	22.84	22.97	22.90	24.5	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	22.77	22.84	22.80	24.5	0.0		
Channel										
Frequency (MHz)				27150	27600	28150	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	22.80	22.90	22.86	24.5	0.0		
Channel										
Frequency (MHz)				1960	1982.2	1990	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	22.81	22.80	22.81	24.5	0.0		
Channel										
Frequency (MHz)				27150	27600	28200	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	22.82	22.90	22.81	24.5	0.0		



n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. (MHz)	Mid Ch. Freq. (MHz)	High Ch. Freq. (MHz)			
Channel									
20	PSSBPSK	1	1	24.45	24.45	24.45	20.0	0.0	
Frequency (MHz)									
20	PSSBPSK	1	53	24.54	24.54	24.47	20.0	0.0	
20	PSSBPSK	1	104	24.45	24.45	24.38	20.0	0.0	
20	PSSBPSK	50	0	24.55	24.55	24.52	20.0	0.0	
20	PSSBPSK	50	50	24.55	24.55	24.48	20.0	0.0	
20	PSSBPSK	50	100	24.55	24.55	24.52	20.0	0.0	
20	QPSK	1	1	24.45	24.45	24.45	20.0	0.0	
20	QPSK	1	53	24.57	24.57	24.57	20.0	0.0	
20	QPSK	1	104	24.51	24.56	24.48	20.0	0.0	
20	QPSK	50	0	24.52	24.52	24.52	20.0	0.0	
20	QPSK	50	50	24.45	24.56	24.52	20.0	0.0	
20	QPSK	50	100	24.52	24.52	24.48	20.0	0.0	
20	MSKAM	1	1	24.55	24.55	24.55	20.0	0.0	
20	MSKAM	1	1	24.55	24.55	24.55	20.0	0.0	
20	MSKAM	1	1	24.55	24.55	24.55	20.0	0.0	
Channel									
15	QPSK	1	1	24.52	24.54	24.42	20.0	0.0	
Frequency (MHz)									
15	QPSK	1	1	24.47	24.50	24.44	20.0	0.0	
Channel									
5	QPSK	1	1	24.41	24.53	24.42	20.0	0.0	
Frequency (MHz)									

n26_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. (MHz)	Mid Ch. Freq. (MHz)	High Ch. Freq. (MHz)			
Channel									
10	PSSBPSK	1	1	22.89	22.90	22.90	24.5	0.0	
Frequency (MHz)									
10	PSSBPSK	1	50	22.89	22.89	22.87	24.5	0.0	
10	PSSBPSK	1	104	22.83	22.83	22.81	24.5	0.0	
10	PSSBPSK	50	0	22.91	22.90	22.91	24.5	0.0	
10	PSSBPSK	50	50	22.85	22.82	22.81	24.5	0.0	
10	PSSBPSK	50	100	22.75	22.81	22.82	24.5	0.0	
10	QPSK	1	1	22.88	22.90	22.89	24.5	0.0	
10	QPSK	1	1	22.77	22.80	22.75	24.5	0.0	
10	QPSK	1	50	22.70	22.82	22.84	24.5	0.0	
10	QPSK	1	104	22.80	22.80	22.82	24.5	0.0	
10	QPSK	50	0	22.88	22.88	22.72	24.5	0.0	
10	QPSK	50	50	22.70	22.84	22.82	24.5	0.0	
10	QPSK	50	100	22.70	22.71	22.83	24.5	0.0	
10	MSKAM	1	1	22.79	22.79	22.87	24.5	0.0	
10	MSKAM	1	1	22.88	22.81	22.88	24.5	0.0	
10	MSKAM	1	1	20.04	20.12	20.11	21.0	0.0	
Channel									
15	QPSK	1	1	22.82	22.84	22.87	24.5	0.0	
Frequency (MHz)									
10	QPSK	1	1	22.83	22.83	22.81	24.5	0.0	
Channel									
5	QPSK	1	1	22.85	22.85	22.81	24.5	0.0	
Frequency (MHz)									

n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. (MHz)	Mid Ch. Freq. (MHz)	High Ch. Freq. (MHz)			
Channel									
10	PSSBPSK	1	1	18.72	18.72	18.72	18.0	0.0	
Frequency (MHz)									
10	PSSBPSK	1	26	18.57	18.57	18.57	18.0	0.0	
10	PSSBPSK	1	50	18.89	18.89	18.89	18.0	0.0	
10	PSSBPSK	25	0	18.87	18.87	18.87	18.0	0.0	
10	PSSBPSK	25	14	18.87	18.87	18.87	18.0	0.0	
10	PSSBPSK	25	27	18.85	18.85	18.85	18.0	0.0	
10	PSSBPSK	50	0	18.88	18.88	18.88	18.0	0.0	
10	QPSK	1	1	18.72	18.72	18.72	18.0	0.0	
10	QPSK	1	26	18.71	18.71	18.71	18.0	0.0	
10	QPSK	1	50	18.72	18.72	18.72	18.0	0.0	
10	QPSK	25	0	18.72	18.72	18.72	18.0	0.0	
10	QPSK	25	14	18.72	18.72	18.72	18.0	0.0	
10	QPSK	25	27	18.71	18.71	18.71	18.0	0.0	
10	MSKAM	1	1	18.84	18.84	18.84	18.0	0.0	
10	MSKAM	1	1	18.90	18.90	18.90	18.0	0.0	
10	MSKAM	1	1	18.87	18.87	18.87	18.0	0.0	
Channel									
5	QPSK	1	1	18.54	18.54	18.54	18.0	0.0	
Frequency (MHz)									





n66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 345000	Mid Ch. Freq. 345000	High Ch. Freq. 355000				
Channel										
40	PSSBPSK	1	1	18.45	18.52	18.48				
Frequency (MHz)										
40	PSSBPSK	1	108	18.52	18.44	18.57	19.0	0.0		
40	PSSBPSK	1	214	18.52	18.45	18.52				
40	PSSBPSK	108	0	18.56	18.45	18.52	19.0	0.0		
40	PSSBPSK	108	54	18.43	18.52	18.45	19.0	0.0		
40	PSSBPSK	108	108	18.54	18.56	18.52	19.0	0.0		
40	PSSBPSK	216	0	18.41	18.45	18.42				
40	QPSK	1	1	18.48	18.52	18.52				
40	QPSK	1	108	18.45	18.44	18.41	19.0	0.0		
40	QPSK	1	214	18.52	18.45	18.52				
40	QPSK	108	0	18.52	18.47	18.38	19.0	0.0		
40	QPSK	108	54	18.45	18.52	18.45	19.0	0.0		
40	QPSK	108	108	18.57	18.47	18.39	19.0	0.0		
40	QPSK	216	0	18.43	18.52	18.45	19.0	0.0		
40	16QAM	1	1	18.42	18.45	18.42	19.0	0.0		
40	16QAM	1	1	18.41	18.45	18.42	19.0	0.0		
40	256QAM	1	1	18.52	18.45	18.41	19.0	0.0		
Channel										
76	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Frequency (MHz)										
76	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Channel										
20	QPSK	1	1	18.32	18.46	18.45	Turn-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Channel										
20	QPSK	1	1	18.32	18.43	18.32	Turn-up limit (dBm)	MPR		
Frequency (MHz)										
15	QPSK	1	1	18.32	18.41	18.44	Turn-up limit (dBm)	MPR		
Channel										
10	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Frequency (MHz)										
10	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Channel										
1	QPSK	1	1	18.32	18.45	18.45	Turn-up limit (dBm)	MPR		

n66_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 345000	Mid Ch. Freq. 345000	High Ch. Freq. 355000				
Channel										
40	PSSBPSK	1	1	22.88	22.82	22.83				
Frequency (MHz)										
40	PSSBPSK	1	108	22.72	22.85	22.78	24.5	0.0		
40	PSSBPSK	1	214	22.82	22.89	22.73				
40	PSSBPSK	108	0	22.78	22.82	22.78	24.5	0.0		
40	PSSBPSK	108	54	22.78	22.83	22.78	24.5	0.0		
40	PSSBPSK	108	108	22.72	22.82	22.78	24.5	0.0		
40	PSSBPSK	216	0	22.78	22.82	22.74	24.5	0.0		
40	QPSK	1	1	22.82	22.82	22.82				
40	QPSK	1	108	22.82	22.88	22.83	24.5	0.0		
40	QPSK	1	214	22.84	22.82	22.78				
40	QPSK	108	0	21.70	21.82	21.89	23.0	1.0		
40	QPSK	108	54	22.74	22.82	22.78	24.5	0.0		
40	QPSK	108	108	21.88	21.73	21.87	23.0	1.0		
40	QPSK	216	0	21.70	21.82	21.84	23.0	1.0		
40	16QAM	1	1	21.78	21.89	21.79	23.0	1.0		
40	256QAM	1	1	20.71	20.42	20.37	22.0	2.5		
40	256QAM	1	1	18.37	18.35	18.20	20.0	4.2		
Channel										
40	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Channel										
20	QPSK	1	1	22.82	22.82	22.82	24.5	0.0		
Frequency (MHz)										
20	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Channel										
15	QPSK	1	1	22.81	22.84	22.83	24.5	0.0		
Frequency (MHz)										
10	QPSK	1	1	17.22	17.42	17.62	Turn-up limit (dBm)	MPR		
Channel										
10	QPSK	1	1	22.82	22.82	22.82	24.5	0.0		
Frequency (MHz)										
1	QPSK	1	1	22.79	22.84	22.82	24.5	0.0		

n71_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)		
				Low Ch. Freq. 181000	Mid Ch. Freq. 181000	High Ch. Freq. 171000				
Channel										
20	PSSBPSK	1	1	24.43	24.40	24.55				
Frequency (MHz)										
20	PSSBPSK	1	30	23.57	24.45	24.40	24.0	0.0		
20	PSSBPSK	1	104	24.33	24.52	24.47				
20	PSSBPSK	30	0	23.70	24.52	23.51	23.5	0.5		
20	PSSBPSK	30	24	24.35	24.54	24.44	23.0	0.0		
20	PSSBPSK	30	56	23.70	23.57	23.51	23.5	0.5		
20	PSSBPSK	100	0	23.82	24.05	23.88				
20	QPSK	1	1	24.45	24.53	24.50				
20	QPSK	1	30	23.48	24.53	24.40	24.0	0.0		
20	QPSK	1	104	24.45	24.50	24.51				
20	QPSK	30	0	23.49	23.59	23.43	23.0	1.0		
20	QPSK	30	24	24.45	24.54	24.50	23.0	0.0		
20	QPSK	30	56	23.42	23.58	23.49	23.0	1.0		
20	16QAM	1	1	23.42	23.55	23.50				
20	16QAM	1	1	23.38	23.52	23.38	23.0	1.0		
20	16QAM	1	1	21.14	21.32	21.32	21.0	2.5		
20	256QAM	1	1	19.73	19.83	19.72	19.5	0.5		
Channel										
10	PSSBPSK	1	1	24.43	24.43	24.43	Turn-up limit (dBm)	MPR		
Frequency (MHz)										
10	PSSBPSK	1	1	18.60	18.60	18.60	Turn-up limit (dBm)	MPR		
Channel										
10	PSSBPSK	1	1	24.43	24.52	24.51	24.0	0.0		
Frequency (MHz)										
1	PSSBPSK	1	1	18.61	18.61	18.61	Turn-up limit (dBm)	MPR		



n71_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Totalsq (dBm)	APRS (dB)
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSS	1	1	24.43	24.43	24.43	24.4	0.0
10	PCF-SFSS	1	50	24.37	24.40	24.40	24.0	0.0
10	PCF-SFSS	1	104	24.33	24.32	24.27		
10	PCF-SFSS	50	0	23.79	24.05	23.95	24.3	0.0
10	PCF-SFSS	50	26	24.35	24.34	24.34	25.0	0.0
10	PCF-SFSS	50	50	23.79	23.97	23.95		
10	PCF-SFSS	100	0	23.42	24.05	23.98	25.0	0.0
10	QPSK	1	1	24.40	24.43	24.40		
10	QPSK	1	50	24.40	24.43	24.40	24.0	0.0
10	QPSK	50	0	23.49	23.59	23.43	25.0	1.0
10	QPSK	50	26	24.40	24.34	24.30	25.0	1.0
10	QPSK	50	50	23.42	23.58	23.49		
10	QPSK	100	0	23.42	23.55	23.39	25.0	1.0
10	16QAM	1	1	23.98	23.52	23.39	25.0	1.0
10	16QAM	1	1	23.94	23.45	23.39	23.5	2.0
10	256QAM	1	1	19.33	19.33	19.32	21.5	4.0
Channel								
Frequency (MHz)				17.4700	17.4700	17.4700		
10	PCF-SFSS	1	1	17.43	17.43	17.43	17.0	1.0
Channel								
Frequency (MHz)				13.7000	13.7000	13.7000		
10	PCF-SFSS	1	1	13.66	13.66	13.66	13.0	1.0
Channel								
Frequency (MHz)				24.43	24.43	24.43	24.0	0.0
10	PCF-SFSS	1	1	24.43	24.43	24.43	24.0	0.0
Channel								
Frequency (MHz)				17.4700	17.4700	17.4700		
10	PCF-SFSS	1	1	17.43	17.43	17.43	17.0	1.0





n38_Ant 1									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	24.23	24.26	24.30		25.0	0.0
40	P12 BPSK	1	93	24.27	24.30	24.34		25.0	0.0
40	P12 BPSK	1	104	24.20	24.26	24.34		24.5	0.5
40	P12 BPSK	50	0	24.24	24.26	24.28		25.0	0.0
40	P12 BPSK	50	28	24.20	24.32	24.33		25.0	0.0
40	P12 BPSK	50	0	24.29	24.30	24.31		24.5	0.5
40	P12 BPSK	50	28	24.29	24.30	24.31		25.0	0.0
40	P12 BPSK	50	0	24.28	24.30	24.32		25.0	0.0
40	QPSK	1	1	24.28	24.32	24.35		25.0	0.0
40	QPSK	1	93	24.28	24.32	24.35		25.0	0.0
40	QPSK	1	104	24.17	24.26	24.30		25.0	0.0
40	QPSK	50	0	24.15	24.26	24.31		25.0	0.0
40	QPSK	50	28	24.23	24.35	24.27		25.0	0.0
40	QPSK	50	0	24.28	24.30	24.31		25.0	0.0
40	QPSK	50	28	24.28	24.30	24.31		25.0	0.0
40	QPSK	50	0	24.15	24.22	24.29		24.0	1.0
40	16QAM	1	1	23.04	23.18	23.09		24.0	1.0
40	16QAM	50	56	23.14	23.26	23.11		23.5	0.5
40	256QAM	1	1	23.75	23.84	23.77		20.5	0.5
40	256QAM	1	1	23.75	23.84	23.77		20.5	0.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.23	18.23	18.19		20.0	0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.83	17.84	17.78		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.82	17.88	17.79		18.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.83	17.84	17.78		18.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.82	17.79	17.70		18.5	0.0

n38_Ant 2									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	17.85	17.93	17.81		18.5	0.0
40	P12 BPSK	1	93	17.73	17.82	17.85		18.5	0.0
40	P12 BPSK	1	104	17.69	17.78	17.73		18.5	0.0
40	P12 BPSK	50	0	17.66	17.82	17.68		18.5	0.0
40	P12 BPSK	50	28	17.82	17.90	17.78		18.5	0.0
40	P12 BPSK	50	0	17.65	17.77	17.62		18.5	0.0
40	P12 BPSK	50	28	17.65	17.80	17.75		18.5	0.0
40	QPSK	1	1	17.89	17.85	17.85		18.5	0.0
40	QPSK	1	93	17.74	17.86	17.80		18.5	0.0
40	QPSK	1	104	17.84	17.87	17.78		18.5	0.0
40	QPSK	50	0	17.72	17.80	17.83		18.5	0.0
40	QPSK	50	28	17.86	17.93	17.83		18.5	0.0
40	QPSK	50	0	17.67	17.84	17.72		18.5	0.0
40	QPSK	50	28	17.62	17.90	17.81		18.5	0.0
40	16QAM	1	1	17.76	17.90	17.77		18.5	0.0
40	16QAM	50	56	17.71	17.84	17.72		18.5	0.0
40	256QAM	1	1	17.73	17.88	17.72		18.5	0.0
40	256QAM	1	1	17.73	17.88	17.72		18.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.81	17.82	17.69		18.5	0.0
Channel									
Frequency (MHz)									
35	QPSK	1	1	17.83	17.84	17.78		18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.82	17.88	17.79		18.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.83	17.84	17.78		18.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.82	17.79	17.70		18.5	0.0

n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	23.41	23.33	23.52		25.0	0.0
100	P12 BPSK	1	197	23.30	23.45	23.43		25.0	0.0
100	P12 BPSK	1	271	23.29	23.37	23.38		25.0	0.0
100	P12 BPSK	196	0	23.26	23.45	23.46		25.0	0.0
100	P12 BPSK	136	66	23.28	23.39	23.39		25.0	0.0
100	P12 BPSK	136	0	23.26	23.46	23.43		25.0	0.0
100	P12 BPSK	270	0	23.35	23.48	23.45		25.0	0.0
100	QPSK	1	1	23.45	23.39	23.55		25.0	0.0
100	QPSK	1	197	23.35	23.42	23.41		25.0	0.0
100	QPSK	1	271	23.46	23.33	23.41		25.0	0.0
100	QPSK	136	0	23.30	23.42	23.39		25.0	0.0
100	QPSK	136	66	23.30	23.41	23.27		25.0	0.0
100	QPSK	270	0	23.01	23.13	23.04		25.0	0.0
100	16QAM	1	1	21.86	21.92	21.85		20.0	0.0
100	16QAM	1	1	21.86	21.92	21.85		20.0	0.0
100	256QAM	1	1	21.88	21.92	21.85		23.0	2.0
100	256QAM	1	1	21.88	21.92	21.85		23.0	2.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.33	23.49	23.42		25.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.36	23.54	23.46		25.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44		25.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.30	23.51	23.42		25.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.36	23.53	23.41		25.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.39	23.52	23.43		25.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.51	23.44		25.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.35	23.41	23.47		25.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43		25.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.44		25.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.38	23.43	23.47		25.0	0.0



### n41\_HPUE\_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	26.12	26.24	26.30	27.5	0.0
100	P12 BPSK	1	137	26.00	26.14	26.20		
100	P12 BPSK	1	271	26.27	26.36	26.25		
100	P12 BPSK	155	69	26.13	26.18	26.28	27.0	0.0
100	P12 BPSK	155	69	26.22	26.28	26.25		
100	P12 BPSK	270	0	26.40	26.58	26.45	27.0	0.0
100	QPSK	1	137	26.03	26.11	26.28	27.5	0.0
100	QPSK	1	271	26.31	26.29	26.11		
100	QPSK	155	69	26.07	26.12	26.27	26.5	1.0
100	QPSK	155	69	26.04	26.09	26.28	27.0	0.0
100	QPSK	155	138	26.18	26.22	26.27	26.5	1.0
100	QPSK	270	0	26.09	26.26	26.25	26.5	1.0
100	TDMA	1	1	26.00	26.16	26.25	27.0	0.0
100	TDMA	1	1	26.05	26.07	26.27	27.0	0.0
100	25QAM	1	1	24.88	24.77	24.62	27.0	4.5
Frequency (MHz)								
80	QPSK	1	1	25.93	25.77	25.97	27.5	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.86	26.17	26.08	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.86	26.16	26.03	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.84	26.09	26.09	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.04	26.11	26.04	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.02	26.19	26.02	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.11	26.02	26.04	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	26.00	26.17	26.05	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.02	26.08	26.05	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.03	26.09	26.09	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.02	26.17	26.00	27.0	0.0

### n41\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	16.95	17.10	17.05		
100	P12 BPSK	1	137	16.95	17.04	16.93	18.5	0.0
100	P12 BPSK	1	271	16.86	16.98	16.95		
100	P12 BPSK	155	69	16.77	17.00	16.91	18.5	0.0
100	P12 BPSK	155	69	16.91	17.08	17.02	18.5	0.0
100	P12 BPSK	155	138	16.86	16.95	16.84	18.5	0.0
100	P12 BPSK	270	0	16.85	17.02	17.00		
100	QPSK	1	1	16.98	17.12	17.08		
100	QPSK	1	137	16.83	16.97	16.98	18.5	0.0
100	QPSK	1	271	16.82	17.02	17.03		
100	QPSK	155	69	16.83	17.05	16.96	18.5	0.0
100	QPSK	155	69	16.95	17.10	17.06	18.5	0.0
100	QPSK	155	138	16.84	16.94	16.81	18.5	0.0
100	QPSK	270	0	16.93	17.06	17.02	18.5	0.0
100	TDMA	1	1	16.87	17.05	16.96	18.5	0.0
100	TDMA	1	1	16.93	16.97	17.03	18.5	0.0
100	25QAM	1	1	16.80	17.05	17.00	18.5	0.0
Frequency (MHz)								
80	QPSK	1	1	16.93	16.93	16.93	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.82	17.02	16.95	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.91	16.90	16.97	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.91	16.92	16.99	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.97	17.02	16.97	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.91	16.96	16.96	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.91	17.07	16.95	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.91	16.98	16.98	18.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.91	17.02	17.02	18.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.92	17.02	17.02	18.5	0.0

### n41\_HPUE\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.62	19.85	19.80		
100	P12 BPSK	1	137	19.55	19.78	19.70	21.0	0.0
100	P12 BPSK	1	271	19.54	19.80	19.65		
100	P12 BPSK	155	69	19.51	19.74	19.62	21.0	0.0
100	P12 BPSK	155	69	19.60	19.82	19.77	21.0	0.0
100	P12 BPSK	155	138	19.59	19.75	19.64	21.0	0.0
100	P12 BPSK	270	0	19.55	19.80	19.70	21.0	0.0
100	QPSK	1	137	19.65	19.88	19.83		
100	QPSK	1	271	19.59	19.75	19.78	21.0	0.0
100	QPSK	155	69	19.48	19.80	19.65	21.0	0.0
100	QPSK	155	69	19.63	19.85	19.80	21.0	0.0
100	QPSK	155	138	19.54	19.74	19.74	21.0	0.0
100	QPSK	270	0	19.60	19.83	19.78	21.0	0.0
100	TDMA	1	1	19.56	19.80	19.77	21.0	0.0
100	TDMA	1	1	19.59	19.82	19.75	21.0	0.0
100	25QAM	1	1	19.49	19.80	19.70	21.0	0.0
Frequency (MHz)								
80	QPSK	1	1	19.53	19.81	19.77	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.58	19.78	19.77	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.57	19.80	19.72	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.80	19.80	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.62	19.74	19.77	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.60	19.86	19.80	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.62	19.74	19.78	21.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.53	19.73	19.75	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.51	19.75	19.72	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.50	19.82	19.72	21.0	0.0



### n41\_Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.41	23.53	23.52		
100	P12 BPSK	1	137	23.32	23.45	23.00	25.0	0.0
100	P12 BPSK	1	271	23.29	23.37	23.36		
100	P12 BPSK	155	9	23.29	23.45	23.36	25.0	0.0
100	P12 BPSK	155	69	23.29	23.39	23.39	25.0	0.0
100	P12 BPSK	155	137	23.26	23.46	23.41		
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.59	23.55		
100	QPSK	1	137	23.35	23.49	23.08	25.0	0.0
100	QPSK	1	271	23.48	23.53	23.41		
100	QPSK	155	9	23.27	23.38	23.34		
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0
100	QPSK	155	137	23.32	23.40	23.34		
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0
100	TDMA	1	1	23.48	23.53	23.39	25.0	0.0
100	TDMA	1	1	23.35	23.50	23.43	25.0	0.0
100	25GQAM	1	1	21.85	21.95	21.85	23.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.53	23.43	23.42	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.38	23.54	23.48	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.26	20.29	20.38	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.32	23.42	23.43	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.33	23.43	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.34	23.43	23.47	25.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	26.12	26.24	26.10		
100	P12 BPSK	1	137	26.00	26.14	26.03	27.5	0.0
100	P12 BPSK	1	271	26.27	26.36	26.25		
100	P12 BPSK	155	9	26.37	26.47	26.36	27.0	0.5
100	P12 BPSK	155	69	26.13	26.18	26.08	27.5	0.0
100	P12 BPSK	155	137	26.22	26.28	26.25		
100	P12 BPSK	270	9	26.05	26.08	26.05	27.0	0.5
100	QPSK	1	1	26.10	26.36	26.33		
100	QPSK	1	137	26.03	26.11	26.08	27.5	0.0
100	QPSK	1	271	26.31	26.29	26.11		
100	QPSK	155	9	26.04	26.15	26.37	26.5	1.0
100	QPSK	155	69	26.04	26.09	26.08	27.5	0.5
100	QPSK	155	137	26.09	26.26	26.25		
100	QPSK	270	9	25.99	26.26	26.25	26.5	1.0
100	TDMA	1	1	25.90	25.16	25.05	27.5	1.0
100	TDMA	1	1	25.36	25.22	25.07	27.5	2.5
100	25GQAM	1	1	21.68	21.77	21.82	27.5	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.98	26.17	26.07	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.98	26.17	26.08	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.98	26.16	26.03	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.26	20.29	20.38	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.04	26.11	26.04	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.00	26.19	26.02	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.11	26.22	26.16	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	26.00	26.17	26.07	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.02	26.08	26.05	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.03	26.15	26.04	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.02	26.17	26.06	27.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.41	23.53	23.52		
100	P12 BPSK	1	137	23.32	23.45	23.43	25.0	0.0
100	P12 BPSK	1	271	23.29	23.37	23.36		
100	P12 BPSK	155	9	23.29	23.45	23.36	25.0	0.0
100	P12 BPSK	155	69	23.29	23.39	23.39	25.0	0.0
100	P12 BPSK	155	137	23.26	23.46	23.41		
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.59	23.55		
100	QPSK	1	137	23.35	23.49	23.41	25.0	0.0
100	QPSK	1	271	23.48	23.53	23.41		
100	QPSK	155	9	23.27	23.38	23.32		
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0
100	QPSK	155	137	23.32	23.40	23.34		
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0
100	TDMA	1	1	23.48	23.53	23.39	25.0	0.0
100	TDMA	1	1	23.35	23.50	23.43	25.0	0.0
100	25GQAM	1	1	21.88	21.92	21.85	25.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.53	23.43	23.42	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.38	23.54	23.48	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.26	20.29	20.38	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.32	23.42	23.43	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.33	23.43	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.34	23.43	23.47	25.0	0.0



n41_HPUE_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	28.12	28.24	28.10			
100	P12 BPSK	1	137	28.00	28.24	28.03	27.5	0.0	
100	P12 BPSK	1	271	28.27	28.38	28.25			
100	P12 BPSK	155	9	28.27	28.37	28.34	27.5	0.5	
100	P12 BPSK	155	69	28.13	28.18	28.08	27.5	0.0	
100	P12 BPSK	155	138	28.12	28.18	28.08	27.0	0.5	
100	P12 BPSK	155	1	28.00	28.00	28.00			
100	QPSK	1	137	28.10	28.38	28.33	27.5	0.0	
100	QPSK	1	271	28.21	28.29	28.11			
100	QPSK	155	9	28.27	28.29	28.34	28.5	1.0	
100	QPSK	155	69	28.04	28.09	28.08	27.5	0.0	
100	QPSK	155	138	28.10	28.20	28.07	26.5	1.0	
100	QPSK	155	0	28.00	28.00	28.00			
100	TDMA	1	1	28.00	28.16	28.05	27.5	0.5	
100	TDMA	1	1	28.00	28.07	28.07	27.5	0.5	
100	25GDM	1	1	21.63	21.77	21.62	27.5	0.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.07	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.07	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.00	28.16	28.03	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.09	28.08	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.04	28.11	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	28.00	28.00	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.00	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	28.00	28.17	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.00	28.08	28.08	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	28.00	28.00	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.00	28.00	28.00	27.5	0.0	

n48_Part96_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	9	22.36	22.45	22.37	23.5	0.0	
40	P12 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	28	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	9	22.18	22.50	22.50			
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GDM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.38	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

n48_Part96_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	9	22.36	22.45	22.37	23.5	0.0	
40	P12 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	28	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	9	22.18	22.50	22.50			
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GDM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.38	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	



n48_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit (dBm)	MPR (dB)	
40	PB2 BPSK	1	1	21.31	21.60	21.48			
40	PB2 BPSK	1	58	21.23	21.48	21.30	22.5	0.0	
40	PB2 BPSK	1	104	21.24	21.45	21.40			
40	PB2 BPSK	50	0	21.35	21.47	21.37	22.5	0.0	
40	PB2 BPSK	50	28	21.30	21.38	21.43	22.5	0.0	
40	PB2 BPSK	100	0	21.33	21.38	21.36	22.5	0.0	
40	PB2 BPSK	100	0	21.28	21.55	21.40	22.5	0.0	
40	QPSK	1	1	21.36	21.60	21.51			
40	QPSK	1	58	21.28	21.54	21.46	22.5	0.0	
40	QPSK	1	104	21.22	21.49	21.37			
40	QPSK	50	0	21.34	21.51	21.43			
40	QPSK	50	28	21.33	21.40	21.48	22.5	0.0	
40	QPSK	100	0	21.37	21.46	21.42			
40	QPSK	100	0	21.30	21.58	21.45	22.5	0.0	
40	16QAM	1	1	21.30	21.54	21.37	22.5	0.0	
40	16QAM	1	1	21.07	21.48	21.45	22.5	0.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83800	84160	84520	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3555.00	3624.99	3694.98	(dB)	(dB)	
30	QPSK	1	1	21.21	21.40	21.37	22.5	0.0	
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.31	21.53	21.41	22.5	0.0	
Channel									
Frequency (MHz)				83788	84160	84598	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.31	21.53	21.41	22.5	0.0	
Channel									
Frequency (MHz)				3555.00	3624.99	3694.98	(dB)	(dB)	
15	QPSK	1	1	21.33	21.58	21.38	22.5	0.0	
Channel									
Frequency (MHz)				83700	84160	84613	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.21	21.40	21.35	22.5	0.0	

n48_Part96_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit (dBm)	MPR (dB)	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.40	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.46	22.54	22.43			
40	PB2 BPSK	50	0	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.38	22.52	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.46	22.36	23.5	0.0	
40	PB2 BPSK	100	0	22.28	22.50	22.50	23.5	0.0	
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	58	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.34	22.45			
40	QPSK	50	0	22.16	22.32	22.32			
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	100	0	22.16	22.17	22.23			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.05	22.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83800	84160	84520	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3555.00	3624.99	3694.98	(dB)	(dB)	
30	QPSK	1	1	22.33	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83788	84160	84616	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)				3555.00	3624.99	3694.98	(dB)	(dB)	
10	QPSK	1	1	22.30	22.43	22.31	23.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.85	23.84	25.82		
100	PI2 BPSK	1	137	23.77	25.84	27.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	25.83	27.77		
100	PI2 BPSK	135	6	23.93	25.97	27.91	25.0	0.0
100	PI2 BPSK	135	69	23.83	25.83	27.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	25.88	27.76	25.0	0.0
100	PI2 BPSK	270	0	23.70	25.85	27.69		
100	QPSK	1	1	23.81	25.73	27.64		
100	QPSK	1	137	23.74	25.79	27.62	25.0	0.0
100	QPSK	1	271	23.81	25.78	27.68		
100	QPSK	135	0	23.70	25.84	27.62		
100	QPSK	135	69	23.81	25.85	27.61	25.0	0.0
100	QPSK	135	138	23.73	25.79	27.61	25.0	0.0
100	QPSK	270	0	23.68	25.82	27.56		
100	HDQAM	1	1	23.80	25.81	27.59	25.0	0.0
100	HDQAM	1	137	23.70	25.85	27.53	25.0	0.0
100	HDQAM	1	271	23.77	25.77	27.69		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.62	21.67	23.72	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.61	19.60	21.59	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.60	17.59	19.58	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.59	15.58	17.57	13.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.58	13.57	15.56	11.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	9.57	11.56	13.55	9.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	7.56	9.55	11.54	7.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	5.55	7.54	9.53	5.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	4.02	6.01	8.00	3.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2.50	4.49	6.48	2.0	0.0

**Par270 n77 HPUE\_Ant 8**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	26.70	28.76	30.82		
100	PI2 BPSK	1	137	26.61	28.67	30.69	27.5	0.0
100	PI2 BPSK	1	271	26.70	28.76	30.84		
100	PI2 BPSK	135	6	26.66	28.53	30.36	27.0	0.0
100	PI2 BPSK	135	69	26.63	28.68	30.59	27.5	0.0
100	PI2 BPSK	135	138	26.42	28.49	30.37	27.0	0.0
100	PI2 BPSK	270	0	26.30	28.37	30.30		
100	QPSK	1	1	26.58	28.52	30.41		
100	QPSK	1	137	26.43	28.48	30.44	27.5	0.0
100	QPSK	1	271	26.54	28.52	30.52		
100	QPSK	135	0	26.78	28.52	30.36		
100	QPSK	135	69	26.53	28.50	30.57	27.0	0.0
100	QPSK	135	138	26.69	28.51	30.38	27.5	0.0
100	QPSK	270	0	26.74	28.51	30.30		
100	HDQAM	1	1	26.55	28.51	30.79	26.0	1.0
100	HDQAM	1	137	26.41	28.46	30.33	26.0	1.0
100	HDQAM	1	271	26.58	28.51	30.41		
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.82	25.72	27.53	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.81	23.69	25.52	21.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.80	21.66	23.50	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.79	19.63	21.48	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.78	17.62	19.49	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.77	15.61	17.46	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.76	13.60	15.45	11.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	10.23	12.07	13.92	10.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	8.22	10.06	11.90	8.0	0.0

**Par270 n77\_Ant 8**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.85	23.84	25.82		
100	PI2 BPSK	1	137	23.77	25.84	27.73	25.0	0.0
100	PI2 BPSK	1	271	23.85	25.83	27.77		
100	PI2 BPSK	135	6	23.93	25.97	27.91	25.0	0.0
100	PI2 BPSK	135	69	23.83	25.83	27.77	25.0	0.0
100	PI2 BPSK	135	138	23.73	25.88	27.76	25.0	0.0
100	PI2 BPSK	270	0	23.70	25.85	27.69		
100	QPSK	1	1	23.81	25.73	27.64		
100	QPSK	1	137	23.74	25.79	27.62	25.0	0.0
100	QPSK	1	271	23.81	25.78	27.68		
100	QPSK	135	0	23.70	25.84	27.62		
100	QPSK	135	69	23.81	25.85	27.61	25.0	0.0
100	QPSK	135	138	23.73	25.79	27.61	25.0	0.0
100	QPSK	270	0	23.68	25.82	27.56		
100	HDQAM	1	1	23.80	25.81	27.59	25.0	0.0
100	HDQAM	1	137	23.70	25.85	27.53	25.0	0.0
100	HDQAM	1	271	23.77	25.77	27.69		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.62	21.67	23.72	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.61	19.60	21.59	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.60	17.59	19.58	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.59	15.58	17.57	13.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.58	13.57	15.56	11.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	9.57	11.56	13.55	9.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	7.56	9.55	11.54	7.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	5.55	7.54	9.53	5.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	4.02	6.01	8.00	3.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2.50	4.49	6.48	2.0	0.0





Par27Q n77\_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hg Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi/2 BPSK and QPSK across different RB sizes and power levels.

Par27Q n77 HPUE\_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hg Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi/2 BPSK and QPSK across different RB sizes and power levels.

Par27Q n77\_Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hg Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi/2 BPSK and QPSK across different RB sizes and power levels.





### Par270 n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 BPSK	1	1	24.36	24.31	24.26		
100	PL2 BPSK	1	137	24.30	24.17	24.21	25.0	0.0
100	PL2 BPSK	1	271	24.30	24.16	24.15		
100	PL2 BPSK	135	9	23.95	24.17	24.15	25.0	0.0
100	PL2 BPSK	135	89	24.07	24.30	24.23	25.0	0.0
100	PL2 BPSK	135	138	23.95	24.23	24.18	25.0	0.0
100	PL2 BPSK	270	9	24.05	24.28	24.20	25.0	0.0
100	QPSK	1	1	24.13	24.25	24.21		
100	QPSK	1	137	24.07	24.22	24.17	25.0	0.0
100	QPSK	1	271	24.05	24.25	24.16		
100	QPSK	135	9	23.99	24.21	24.17		
100	QPSK	135	89	24.11	24.25	24.28	25.0	0.0
100	QPSK	135	138	23.97	24.28	24.17		
100	QPSK	270	9	24.00	24.20	24.24	25.0	0.0
100	HDQAM	1	1	24.01	24.20	24.16	25.0	0.0
100	HDQAM	1	137	24.04	24.20	24.21	25.0	0.0
100	HDQAM	1	271	24.04	24.21	24.14		
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.87	24.23	24.24	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.92	24.22	24.20	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.08	24.21	24.18	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.03	24.20	24.20	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.95	24.19	24.19	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.05	24.23	24.20	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.00	24.20	24.19	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.04	24.20	24.19	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.07	24.20	24.18	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.02	24.24	24.22	25.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 BPSK	1	1	21.10	21.10	21.10		
100	PL2 BPSK	1	137	21.11	21.11	21.11	22.5	0.0
100	PL2 BPSK	135	9	21.08	21.10	21.08	22.5	0.0
100	PL2 BPSK	135	89	21.11	21.11	21.11	22.5	0.0
100	PL2 BPSK	135	138	21.08	21.10	21.08	22.5	0.0
100	PL2 BPSK	270	9	21.10	21.10	21.10	22.5	0.0
100	QPSK	1	1	21.10	21.10	21.10		
100	QPSK	1	137	21.13	21.13	21.13	22.5	0.0
100	QPSK	1	271	21.12	21.12	21.12		
100	QPSK	135	9	21.11	21.11	21.11	22.5	0.0
100	QPSK	135	89	21.13	21.13	21.13	22.5	0.0
100	QPSK	135	138	21.10	21.12	21.10	22.5	0.0
100	QPSK	270	9	21.12	21.12	21.12	22.5	0.0
100	HDQAM	1	1	21.12	21.12	21.12	22.5	0.0
100	HDQAM	1	137	21.10	21.10	21.10	22.5	0.0
100	HDQAM	1	271	21.08	21.08	21.08		
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.08	21.08	21.08	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.09	21.09	21.09	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.09	21.09	21.09	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.09	21.09	21.09	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.09	21.09	21.09	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.09	21.09	21.09	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.09	21.09	21.09	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.04	21.10	21.00	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.07	21.10	21.07	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.03	21.05	20.99	22.5	0.0

### Par27Q n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 BPSK	1	1	21.08	21.08	21.08		
100	PL2 BPSK	1	137	21.09	21.09	21.09	25.0	0.0
100	PL2 BPSK	135	9	21.05	21.08	21.05	25.0	0.0
100	PL2 BPSK	135	89	21.08	21.08	21.08	25.0	0.0
100	PL2 BPSK	135	138	21.05	21.08	21.05	25.0	0.0
100	PL2 BPSK	270	9	21.08	21.08	21.08	25.0	0.0
100	QPSK	1	1	21.08	21.08	21.08		
100	QPSK	1	137	21.09	21.09	21.09	25.0	0.0
100	QPSK	1	271	21.07	21.07	21.07		
100	QPSK	135	9	21.08	21.08	21.08	25.0	0.0
100	QPSK	135	89	21.09	21.09	21.09	25.0	0.0
100	QPSK	135	138	21.06	21.08	21.06	25.0	0.0
100	QPSK	270	9	21.07	21.07	21.07	25.0	0.0
100	HDQAM	1	1	21.07	21.07	21.07	25.0	0.0
100	HDQAM	1	137	21.05	21.05	21.05	25.0	0.0
100	HDQAM	1	271	21.05	21.05	21.05		
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.09	21.09	21.09	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.09	21.09	21.09	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.04	21.10	21.00	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.04	21.10	21.00	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.04	21.10	21.00	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.04	21.10	21.00	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.04	21.10	21.00	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.07	21.10	21.07	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.07	21.10	21.07	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.03	21.04	20.98	25.0	0.0



Par270 n77\_Ant 10

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hg. Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi/2 BPSK, QPSK, and HDQAM at different BW values.

Par270 n77 HPUE\_Ant 10

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hg. Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi/2 BPSK, QPSK, and HDQAM at different BW values.

Par270 n77\_Ant 10

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hg. Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi/2 BPSK, QPSK, and HDQAM at different BW values.



Par27Q n77 HPUE\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power Hgh. Ch. / Freq.	Tune-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 QPSK	1	1	26.22	26.22			
100	PL2 QPSK	1	137	26.23	26.23		27.5	0.0
100	PL2 QPSK	1	271	26.26	26.26			
100	PL2 QPSK	135	6	26.04	26.04		27.5	0.0
100	PL2 QPSK	135	69	26.21	26.21		27.5	0.0
100	PL2 QPSK	135	138	26.10	26.10		27.5	0.0
100	PL2 QPSK	270	0	26.09	26.09		27.5	0.0
100	QPSK	1	1	26.36	26.36			
100	QPSK	1	137	26.09	26.09		27.5	0.0
100	QPSK	1	271	26.36	26.36			
100	QPSK	135	6	26.57	26.57			
100	QPSK	135	69	26.51	26.51		27.5	0.0
100	QPSK	135	138	26.53	26.53			
100	QPSK	270	0	26.54	26.54		26.5	1.0
100	QPSK	1	1	26.44	26.44		26.5	1.0
100	8QAM	1	1	26.06	26.06		26.0	2.0
100	8QAM	1	1	26.06	26.06		26.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83330	83360	Tune-up time (min)	MPR (dB)
				3465	3469.98	3474.97		
				26.25	26.24	26.26	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83200	83230	83260	Tune-up time (min)	MPR (dB)
				3466.02	3470.98	3475.97		
				26.29	26.31	26.31	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	83284	83332	83382	Tune-up time (min)	MPR (dB)
				82600	82632	82682		
				26.32	26.30	26.28	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83000	83032	83062	Tune-up time (min)	MPR (dB)
				3460	3469.98	3479.97		
				26.33	26.25	26.39	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83166	83192	83218	Tune-up time (min)	MPR (dB)
				3472.02	3475.98	3479.97		
				26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	83134	83332	83332	Tune-up time (min)	MPR (dB)
				3473.01	3469.98	3509.98		
				26.25	26.31	26.34	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	83100	83132	83162	Tune-up time (min)	MPR (dB)
				3465	3469.98	3474.97		
				26.33	26.33	26.27	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	83034	83332	83332	Tune-up time (min)	MPR (dB)
				3468.01	3473.98	3478.97		
				26.30	26.28	26.30	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	83000	83332	83332	Tune-up time (min)	MPR (dB)
				3469.02	3469.98	3469.98		
				26.33	26.33	26.34	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	83020	83332	83332	Tune-up time (min)	MPR (dB)
				3472.5	3473.98	3474.97		
				26.23	26.22	26.33	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	83034	83332	83332	Tune-up time (min)	MPR (dB)
				3470.01	3469.98	3469.98		
				26.31	26.31	26.33	27.5	0.0



State 7 Power

n2_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	P16Q BPSK	1	1	23.95	23.95	23.95	0.0
20	P16Q BPSK	1	53	23.95	23.95	23.95	0.0
20	P16Q BPSK	1	104	23.95	23.95	23.95	0.0
20	P16Q BPSK	50	0	23.95	23.95	23.95	0.0
20	P16Q BPSK	50	28	23.95	23.95	23.95	0.0
20	P16Q BPSK	50	56	23.95	23.95	23.95	0.0
20	P16Q BPSK	100	0	23.95	23.95	23.95	0.0
20	QPSK	1	1	23.96	23.96	23.96	0.0
20	QPSK	1	53	23.96	23.96	23.96	0.0
20	QPSK	1	104	23.96	23.96	23.96	0.0
20	QPSK	50	0	23.96	23.96	23.96	0.0
20	QPSK	50	28	23.96	23.96	23.96	0.0
20	QPSK	50	56	23.96	23.96	23.96	0.0
20	16QAM	1	1	23.97	23.97	23.97	0.0
20	16QAM	1	53	23.97	23.97	23.97	0.0
20	16QAM	1	104	23.97	23.97	23.97	0.0
20	16QAM	50	0	23.97	23.97	23.97	0.0
20	16QAM	50	28	23.97	23.97	23.97	0.0
20	16QAM	50	56	23.97	23.97	23.97	0.0
20	256QAM	1	1	19.40	19.40	19.40	0.0
20	256QAM	1	53	19.40	19.40	19.40	0.0
20	256QAM	1	104	19.40	19.40	19.40	0.0
20	256QAM	50	0	19.40	19.40	19.40	0.0
20	256QAM	50	28	19.40	19.40	19.40	0.0
20	256QAM	50	56	19.40	19.40	19.40	0.0
20	256QAM	100	0	19.40	19.40	19.40	0.0
Channel							
15	QPSK	1	1	19.41	19.41	19.41	0.0
15	QPSK	1	53	19.41	19.41	19.41	0.0
15	QPSK	1	104	19.41	19.41	19.41	0.0
15	QPSK	50	0	19.41	19.41	19.41	0.0
15	QPSK	50	28	19.41	19.41	19.41	0.0
15	QPSK	50	56	19.41	19.41	19.41	0.0
15	QPSK	100	0	19.41	19.41	19.41	0.0

n2_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	P16Q BPSK	1	1	15.98	15.94	15.98	0.0
20	P16Q BPSK	1	53	15.98	15.97	15.94	17.0
20	P16Q BPSK	1	104	15.98	15.93	15.93	0.0
20	P16Q BPSK	50	0	15.98	15.93	15.93	0.0
20	P16Q BPSK	50	28	15.93	15.92	15.95	0.0
20	P16Q BPSK	50	56	15.98	15.92	15.92	0.0
20	P16Q BPSK	100	0	15.98	15.92	15.92	0.0
20	QPSK	1	1	15.95	15.92	15.94	0.0
20	QPSK	1	53	15.97	15.93	15.97	17.0
20	QPSK	1	104	15.95	15.92	15.92	0.0
20	QPSK	50	0	15.95	15.98	15.97	0.0
20	QPSK	50	28	15.93	15.92	15.92	0.0
20	QPSK	50	56	15.98	15.92	15.98	0.0
20	QPSK	100	0	15.98	15.92	15.92	0.0
20	16QAM	1	1	15.91	15.92	15.92	0.0
20	16QAM	1	53	15.91	15.91	15.92	0.0
20	16QAM	1	104	15.91	15.91	15.92	0.0
20	16QAM	50	0	15.91	15.91	15.92	0.0
20	16QAM	50	28	15.91	15.91	15.92	0.0
20	16QAM	50	56	15.91	15.91	15.92	0.0
20	256QAM	1	1	15.92	15.91	15.92	0.0
Channel							
15	QPSK	1	1	15.93	15.92	15.92	0.0
15	QPSK	1	53	15.93	15.92	15.92	0.0
15	QPSK	1	104	15.93	15.92	15.92	0.0
15	QPSK	50	0	15.93	15.92	15.92	0.0
15	QPSK	50	28	15.93	15.92	15.92	0.0
15	QPSK	50	56	15.93	15.92	15.92	0.0
15	QPSK	100	0	15.93	15.92	15.92	0.0

n2_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	P16Q BPSK	1	1	20.87	20.88	20.87	0.0
20	P16Q BPSK	1	53	20.85	20.87	20.87	22.5
20	P16Q BPSK	1	104	20.88	20.87	20.84	0.0
20	P16Q BPSK	50	0	20.87	20.85	20.82	0.0
20	P16Q BPSK	50	28	20.85	20.84	20.88	0.0
20	P16Q BPSK	50	56	20.87	20.85	20.82	0.0
20	P16Q BPSK	100	0	20.88	20.83	20.85	0.0
20	QPSK	1	1	20.82	20.82	20.82	0.0
20	QPSK	1	53	20.87	20.85	20.78	22.5
20	QPSK	1	104	20.88	20.83	20.78	0.0
20	QPSK	50	0	20.88	20.83	20.78	0.0
20	QPSK	50	28	20.82	20.82	20.82	0.0
20	QPSK	50	56	20.87	20.85	20.88	0.0
20	16QAM	1	1	20.82	20.82	20.82	0.0
20	16QAM	1	53	20.87	20.82	20.78	22.5
20	16QAM	1	104	20.88	20.85	20.85	0.0
20	16QAM	50	0	20.82	20.82	20.82	0.0
20	16QAM	50	28	20.82	20.82	20.82	0.0
20	16QAM	50	56	20.87	20.85	20.88	0.0
20	256QAM	1	1	18.28	18.33	18.22	0.0
Channel							
15	QPSK	1	1	18.27	18.30	18.25	0.0
15	QPSK	1	53	18.27	18.25	18.22	22.5
15	QPSK	1	104	18.28	18.24	18.22	0.0
15	QPSK	50	0	18.28	18.24	18.22	0.0
15	QPSK	50	28	18.22	18.22	18.22	0.0
15	QPSK	50	56	18.27	18.25	18.28	0.0
15	QPSK	100	0	18.28	18.23	18.25	0.0



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166600	Power Middle Ch. Freq. 167200	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PWQ-BPSK	1	1	24.53	24.83	24.88			
20	PWQ-BPSK	1	53	24.49	24.71	24.49	20.0	0.0	
20	PWQ-BPSK	1	104	24.37	24.57	24.81			
20	PWQ-BPSK	50	0	24.36	24.56	24.82	20.0	0.0	
20	PWQ-BPSK	50	50	24.32	24.52	24.80	20.0	0.0	
20	PWQ-BPSK	100	0	24.28	24.58	24.84	20.0	0.0	
20	QPSK	1	1	24.54	24.84	24.82			
20	QPSK	1	53	24.50	24.83	24.38	20.0	0.0	
20	QPSK	1	104	24.35	24.63	24.87			
20	QPSK	50	0	24.32	24.77	24.85	20.0	1.0	
20	QPSK	50	50	24.26	24.62	24.82	20.0	0.0	
20	QPSK	100	0	24.26	24.78	24.87	20.0	1.0	
20	QPSK	100	0	24.26	24.78	24.87	20.0	1.0	
20	MSKAM	1	1	24.18	24.28	24.15	24.5	2.5	
20	MSKAM	1	1	24.14	24.23	24.11	24.5	2.5	
20	MSKAM	1	1	24.14	24.23	24.11	24.5	2.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83.3	84.3	84.3			
Channel									
Frequency (MHz)									
15	QPSK	1	1	165.00	167.00	165.00			
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.82	24.99	24.82	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	84.0	84.5	84.5			
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.41	24.51	24.41	20.0	1.0	

n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166600	Power Middle Ch. Freq. 167200	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PWQ-BPSK	1	1	21.02	21.09	21.09			
20	PWQ-BPSK	1	50	21.00	21.09	21.09	22.0	0.0	
20	PWQ-BPSK	1	104	21.01	21.09	21.09			
20	PWQ-BPSK	50	0	21.02	21.07	21.08	22.0	0.0	
20	PWQ-BPSK	50	50	21.01	21.07	21.03	22.0	0.0	
20	PWQ-BPSK	100	0	20.99	21.01	21.09	22.0	0.0	
20	QPSK	1	1	21.01	21.03	21.01			
20	QPSK	1	50	21.04	21.08	21.05	22.0	0.0	
20	QPSK	1	104	20.95	21.05	21.03			
20	QPSK	50	0	21.00	21.09	21.09	22.0	0.0	
20	QPSK	50	50	21.00	21.01	21.05	22.0	0.0	
20	QPSK	100	0	20.99	21.08	21.05	22.0	0.0	
20	MSKAM	1	1	20.98	21.05	20.97	22.0	0.0	
20	MSKAM	1	1	20.97	21.09	21.02	22.0	0.0	
20	MSKAM	1	1	20.14	20.23	20.11	21.5	1.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83.5	84.5	84.5			
Channel									
Frequency (MHz)									
15	QPSK	1	1	167.00	167.00	167.00			
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.03	21.01	21.02	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	84.0	84.5	84.5			

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166600	Power Middle Ch. Freq. 167200	Power High Ch. Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PWQ-BPSK	1	1	23.78	23.89	23.88			
40	PWQ-BPSK	1	108	23.70	23.82	23.82	20.0	0.0	
40	PWQ-BPSK	1	214	23.74	23.85	23.73			
40	PWQ-BPSK	108	0	23.57	23.82	23.70	24.5	0.5	
40	PWQ-BPSK	108	54	23.72	23.80	23.71	23.0	0.0	
40	PWQ-BPSK	108	108	23.74	23.80	23.74			
40	PWQ-BPSK	216	0	23.19	23.83	23.18	24.5	0.5	
40	QPSK	1	1	23.80	23.82	23.80			
40	QPSK	1	108	23.74	23.83	23.78	20.0	0.0	
40	QPSK	1	214	23.66	23.80	23.80			
40	QPSK	108	0	23.69	23.82	23.86	24.0	1.0	
40	QPSK	108	54	23.71	23.83	23.80	20.0	0.0	
40	QPSK	108	108	23.65	23.15	23.88			
40	MSKAM	1	1	23.69	23.83	23.80	24.0	1.0	
40	MSKAM	1	1	23.68	23.81	23.83	24.0	1.0	
40	MSKAM	1	1	21.41	21.56	21.44	22.5	2.5	
40	MSKAM	1	1	19.45	19.87	19.44	20.5	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.13	23.90	23.90			
Channel									
Frequency (MHz)									
25	QPSK	1	1	167.00	167.00	167.00			
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.72	23.76	23.82	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.10	23.90	23.91			
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.03	23.84	23.84	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.14	23.90	23.91	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.18	23.10	20.0	0.0	



### n7\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. [MHz]	Mid. Ch. Freq. [MHz]	High Ch. Freq. [MHz]		
Channel								
40	PUSC	1	1	18.70	18.81	18.77	18.0	0.0
Frequency (MHz)								
40	PUSC	1	108	18.71	18.79	18.82	18.0	0.0
40	PUSC	1	214	18.74	18.85	18.87	18.0	0.0
40	PUSC	108	0	18.80	18.88	18.83	18.0	0.0
40	PUSC	108	108	18.75	18.86	18.81	18.0	0.0
40	PUSC	216	0	18.70	18.79	18.86	18.0	0.0
40	QPSK	1	1	18.80	18.90	18.92	18.0	0.0
40	QPSK	1	108	18.73	18.86	18.77	18.0	0.0
40	QPSK	1	214	18.76	18.88	18.82	18.0	0.0
40	QPSK	108	0	18.78	18.88	18.85	18.0	0.0
40	QPSK	108	108	18.73	18.83	18.80	18.0	0.0
40	QPSK	216	0	18.81	18.90	18.88	18.0	0.0
40	QPSK	108	108	18.71	18.86	18.77	18.0	0.0
40	QPSK	216	1	18.81	18.90	18.88	18.0	0.0
40	16QAM	1	1	18.70	18.85	18.81	18.0	0.0
40	16QAM	1	1	18.70	18.85	18.78	18.0	0.0
40	256QAM	1	1	18.70	18.85	18.82	18.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	18.90	18.93	18.90	18.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.92	18.95	18.92	18.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.93	18.96	18.93	18.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.94	18.94	18.94	18.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.95	18.95	18.95	18.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.96	18.83	18.80	18.0	0.0

### n12\_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. [MHz]	Mid. Ch. Freq. [MHz]	High Ch. Freq. [MHz]		
Channel								
10	PUSC	1	1	24.28	24.33	24.30	24.0	0.0
Frequency (MHz)								
10	PUSC	1	40	24.31	24.41	24.40	24.0	0.0
10	PUSC	1	77	24.38	24.47	24.45	24.0	0.0
10	PUSC	36	0	24.36	24.31	24.36	24.0	0.0
10	PUSC	36	36	24.42	24.43	24.40	24.0	0.0
10	PUSC	36	48	24.31	24.33	24.36	24.0	0.0
10	PUSC	72	0	24.34	24.33	24.30	24.0	0.0
10	QPSK	1	1	24.30	24.30	24.30	24.0	0.0
10	QPSK	1	40	24.42	24.33	24.44	24.0	0.0
10	QPSK	1	77	24.39	24.33	24.37	24.0	1.0
10	QPSK	36	0	24.47	24.43	24.38	24.0	0.0
10	QPSK	36	36	24.48	24.38	24.40	24.0	1.0
10	QPSK	36	48	24.30	24.36	24.33	24.0	2.0
10	16QAM	1	1	24.42	24.35	24.49	24.0	1.0
10	256QAM	1	1	24.42	24.33	24.37	24.0	2.0
10	256QAM	1	1	19.98	20.04	19.94	21.0	4.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.42	24.44	24.42	24.0	1.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.43	24.43	24.38	24.0	0.0

### n12\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. [MHz]	Mid. Ch. Freq. [MHz]	High Ch. Freq. [MHz]		
Channel								
15	PUSC	1	1	22.48	22.52	22.50	24.0	0.0
Frequency (MHz)								
15	PUSC	1	40	22.49	22.49	22.50	24.0	0.0
15	PUSC	1	77	22.49	22.42	22.43	24.0	0.0
15	PUSC	36	0	22.50	22.49	22.43	24.0	0.0
15	PUSC	36	36	22.49	22.49	22.37	24.0	0.0
15	PUSC	36	48	22.47	22.45	22.50	24.0	0.0
15	PUSC	72	0	22.43	22.53	22.40	24.0	0.0
15	QPSK	1	1	22.50	22.50	22.51	24.0	0.0
15	QPSK	1	40	22.47	22.52	22.41	24.0	0.0
15	QPSK	1	77	22.44	22.50	22.50	24.0	0.0
15	QPSK	36	0	22.45	22.53	22.39	24.0	0.0
15	QPSK	36	36	22.51	22.50	22.51	24.0	0.0
15	QPSK	36	48	22.48	22.42	22.43	24.0	0.0
15	QPSK	72	0	22.50	22.53	22.48	24.0	0.0
15	16QAM	1	1	22.49	22.48	22.42	24.0	0.0
15	16QAM	1	1	22.52	22.51	22.37	22.5	0.0
15	256QAM	1	1	19.98	20.04	19.94	21.5	2.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.46	22.45	22.37	24.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Mid. Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.44	22.47	22.38	24.0	0.0



n25_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up time (min)	MPR (dB)		
				Low Ch. Freq. 37400	Media Ch. Freq. 37600	High Ch. Freq. 37800				
Channel										
40	PWQ BPSK	1	1	24.30	24.45	24.41				
Frequency (MHz)										
40	QPSK	1	108	24.27	24.28	24.27	20.0	0.0		
40	PWQ BPSK	1	214	24.24	24.42	24.32				
40	PWQ BPSK	108	0	23.97	23.99	23.98	24.5	0.5		
40	PWQ BPSK	108	54	24.25	24.40	24.33	20.0	0.0		
40	PWQ BPSK	108	108	23.99	23.97	23.93	24.5	0.5		
40	PWQ BPSK	214	0	23.33	23.33	23.31				
40	QPSK	1	1	24.43	24.23	24.46				
40	QPSK	1	108	24.31	24.27	24.31	20.0	0.0		
40	QPSK	1	214	24.34	24.40	24.32				
40	QPSK	108	0	23.33	23.33	23.30	24.0	1.0		
40	QPSK	108	54	24.33	24.40	24.34	20.0	0.0		
40	QPSK	108	108	23.22	23.34	23.25	24.0	1.0		
40	QPSK	214	0	23.33	23.38	23.22				
40	MCSAM	1	1	23.28	23.31	23.29	24.0	1.0		
40	MCSAM	1	1	23.06	23.02	23.02	22.5	2.5		
40	25GQAM	1	1	19.65	19.72	19.67	20.5	4.5		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	24.30	24.31	24.32	20.0	0.0		
Channel										
Frequency (MHz)				27.250	27.600	28.000	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	24.30	24.40	24.30	20.0	0.0		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	24.30	24.41	24.32	20.0	0.0		
Channel										
Frequency (MHz)				27.150	27.600	28.100	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	24.30	24.40	24.30	20.0	0.0		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	24.30	24.32	24.31	20.0	0.0		
Channel										
Frequency (MHz)				27.600	27.600	28.000	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	24.20	24.40	24.30	20.0	0.0		

n25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up time (min)	MPR (dB)		
				Low Ch. Freq. 37400	Media Ch. Freq. 37600	High Ch. Freq. 37800				
Channel										
40	PWQ BPSK	1	1	16.43	16.37	16.36				
Frequency (MHz)										
40	QPSK	1	108	16.41	16.41	16.39	17.0	0.0		
40	PWQ BPSK	1	214	16.38	16.39	16.39				
40	PWQ BPSK	108	0	16.43	16.37	16.39	17.0	0.0		
40	PWQ BPSK	108	54	16.40	16.40	16.41	17.0	0.0		
40	PWQ BPSK	108	108	16.44	16.39	16.37				
40	PWQ BPSK	214	0	16.37	16.43	16.41	17.0	0.0		
40	QPSK	1	1	16.20	16.23	16.20				
40	QPSK	1	108	16.41	16.39	16.43	17.0	0.0		
40	QPSK	1	214	16.40	16.39	16.34				
40	QPSK	108	0	16.38	16.42	16.39	17.0	0.0		
40	QPSK	108	54	16.40	16.40	16.40	17.0	0.0		
40	QPSK	108	108	16.44	16.40	16.34	17.0	0.0		
40	QPSK	214	0	16.43	16.40	16.40				
40	MCSAM	1	1	16.38	16.43	16.39	17.0	0.0		
40	MCSAM	1	1	16.20	16.27	16.40	17.0	0.0		
40	25GQAM	1	1	16.40	16.40	16.40	17.0	0.0		
Channel										
Frequency (MHz)				16.40	16.43	16.40	Turn-up time (min)	MPR (dB)		
30	QPSK	1	1	16.30	16.41	16.37	17.0	0.0		
Channel										
Frequency (MHz)				27.250	27.600	28.000	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	16.40	16.40	16.39	17.0	0.0		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	16.40	16.40	16.39	17.0	0.0		
Channel										
Frequency (MHz)				27.150	27.600	28.100	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	16.24	16.43	16.40	17.0	0.0		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	16.30	16.41	16.42	17.0	0.0		
Channel										
Frequency (MHz)				27.600	27.600	28.000	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	16.43	16.40	16.43	17.0	0.0		

n25_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up time (min)	MPR (dB)		
				Low Ch. Freq. 37400	Media Ch. Freq. 37600	High Ch. Freq. 37800				
Channel										
40	PWQ BPSK	1	1	20.82	20.85	20.81				
Frequency (MHz)										
40	QPSK	1	108	20.80	20.82	20.81	22.5	0.0		
40	PWQ BPSK	1	214	20.87	20.85	20.80				
40	PWQ BPSK	108	0	20.84	20.85	20.80	22.5	0.0		
40	PWQ BPSK	108	54	20.83	20.89	20.87	22.5	0.0		
40	PWQ BPSK	108	108	20.82	20.82	20.81				
40	PWQ BPSK	214	0	20.82	20.80	20.86	22.5	0.0		
40	QPSK	1	1	20.86	20.80	20.82				
40	QPSK	1	108	20.88	20.87	20.87	22.5	0.0		
40	QPSK	1	214	20.87	20.82	20.82				
40	QPSK	108	0	20.81	20.80	20.87	22.5	0.0		
40	QPSK	108	54	20.82	20.82	20.80	22.5	0.0		
40	QPSK	108	108	20.83	20.85	20.84				
40	QPSK	214	0	20.82	20.80	20.80				
40	MCSAM	1	1	20.87	20.81	20.85	22.5	0.0		
40	MCSAM	1	1	20.21	20.30	20.30	20.0	0.0		
40	25GQAM	1	1	18.24	18.33	18.20	20.0	2.0		
Channel										
Frequency (MHz)				18.24	18.33	18.20	Turn-up time (min)	MPR (dB)		
30	QPSK	1	1	20.84	20.81	20.84	22.5	0.0		
Channel										
Frequency (MHz)				27.250	27.600	28.000	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	20.88	20.89	20.85	22.5	0.0		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	20.82	20.82	20.80	22.5	0.0		
Channel										
Frequency (MHz)				27.150	27.600	28.100	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	20.88	20.82	20.82	22.5	0.0		
Channel										
Frequency (MHz)				19.65	19.62	19.60	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	20.82	20.80	20.82	22.5	0.0		
Channel										
Frequency (MHz)				27.600	27.600	28.000	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	20.88	21.00	20.83	22.5	0.0		



n26_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 164400	Mid. Ch. Freq. 165000	High Ch. Freq. 165600		
Channel								
20	PSS-BPSK	1	1	24.45	24.45	24.45		
Frequency (MHz)								
20	PSS-BPSK	1	53	24.54	24.52	24.47	20.0	0.0
20	PSS-BPSK	1	104	24.45	24.45	24.39		
20	PSS-BPSK	50	0	23.95	24.00	23.97	25.5	0.5
20	PSS-BPSK	50	25	24.45	24.52	24.48	20.0	0.0
20	PSS-BPSK	50	50	23.95	24.00	23.97	25.5	0.5
20	PSS-BPSK	100	0	24.05	24.05	24.02	25.5	0.5
20	QPSK	1	1	24.45	24.45	24.45		
20	QPSK	1	53	24.57	24.53	24.47	20.0	0.0
20	QPSK	1	104	24.51	24.50	24.48		
20	QPSK	50	0	23.70	23.72	23.70	20.0	1.0
20	QPSK	50	25	24.45	24.50	24.52	20.0	0.0
20	QPSK	50	50	23.70	23.72	23.69	20.0	1.0
20	QPSK	100	0	23.68	23.70	23.67	25.5	0.5
20	16QAM	1	1	23.95	23.95	23.95	25.5	0.5
20	16QAM	1	1	23.95	23.95	23.95	25.5	0.5
20	256QAM	1	1	20.70	20.25	20.21	21.5	4.5
Channel								
15	QPSK	1	1	24.52	24.54	24.54	20.0	1.0
Frequency (MHz)								
15	QPSK	1	1	24.47	24.50	24.44	20.0	0.0
Channel								
15	QPSK	1	1	24.47	24.50	24.44	20.0	0.0
Frequency (MHz)								
15	QPSK	1	1	24.47	24.50	24.44	20.0	0.0

n26_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 164400	Mid. Ch. Freq. 165000	High Ch. Freq. 165600		
Channel								
20	PSS-BPSK	1	1	21.04	21.02	21.00		
Frequency (MHz)								
20	PSS-BPSK	1	50	21.05	21.07	21.04	22.0	0.0
20	PSS-BPSK	1	104	21.02	21.11	21.07		
20	PSS-BPSK	50	0	21.07	21.05	21.06	22.0	0.0
20	PSS-BPSK	50	25	21.09	21.08	21.05	22.0	0.0
20	PSS-BPSK	50	50	21.06	21.13	21.05	22.0	0.0
20	PSS-BPSK	100	0	21.05	21.08	21.07	22.0	0.0
20	QPSK	1	1	21.05	21.05	21.05		
20	QPSK	1	50	21.02	21.13	21.05	22.0	0.0
20	QPSK	1	104	21.04	21.09	21.04		
20	QPSK	50	0	20.99	21.11	21.08	22.0	0.0
20	QPSK	50	25	21.05	21.05	21.05	22.0	0.0
20	QPSK	50	50	21.08	21.09	21.05	22.0	0.0
20	QPSK	100	0	21.05	21.11	21.08	22.0	0.0
20	16QAM	1	1	21.02	21.07	21.08	22.0	0.0
20	256QAM	1	1	20.25	20.08	20.02	22.0	0.0
20	256QAM	1	1	20.24	20.12	20.11	21.5	4.0
Channel								
15	QPSK	1	1	21.05	21.15	21.15	22.0	1.0
Frequency (MHz)								
15	QPSK	1	1	21.05	21.11	21.07	22.0	1.0
Channel								
15	QPSK	1	1	21.04	21.03	20.97	22.0	0.0
Frequency (MHz)								
15	QPSK	1	1	21.05	21.15	21.15	22.0	1.0

n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 164400	Mid. Ch. Freq. 165000	High Ch. Freq. 165600		
Channel								
20	PSS-BPSK	1	1					
Frequency (MHz)								
20	PSS-BPSK	1	26				18.0	0.0
20	PSS-BPSK	1	50					
20	PSS-BPSK	25	0				18.0	0.0
20	PSS-BPSK	25	14					
20	PSS-BPSK	25	27				18.0	0.0
20	PSS-BPSK	50	0				18.0	0.0
20	QPSK	1	1					
20	QPSK	1	26				18.0	0.0
20	QPSK	1	50					
20	QPSK	25	0				18.0	0.0
20	QPSK	25	14					
20	QPSK	25	27				18.0	0.0
20	QPSK	50	0				18.0	0.0
20	16QAM	1	1				18.0	0.0
20	16QAM	1	1				18.0	0.0
20	256QAM	1	1				18.0	0.0
Channel								
15	QPSK	1	1	20.94	20.97	20.93	20.0	0.0
Frequency (MHz)								
15	QPSK	1	1	20.94	20.95	20.91	20.0	0.0





n30_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Media Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P102 BPSK	1	1	18.71			18.0	0.0	
10	P102 BPSK	1	26	18.71			18.0	0.0	
10	P102 BPSK	1	50	18.82			18.0	0.0	
10	P102 BPSK	25	0	18.82			18.0	0.0	
10	P102 BPSK	25	14	18.82			18.0	0.0	
10	P102 BPSK	25	27	18.82			18.0	0.0	
10	P102 BPSK	50	0	18.84			18.0	0.0	
10	QPSK	1	1	18.95			18.0	0.0	
10	QPSK	1	26	18.95			18.0	0.0	
10	QPSK	1	50	18.95			18.0	0.0	
10	QPSK	25	0	18.95			18.0	0.0	
10	QPSK	25	14	18.95			18.0	0.0	
10	QPSK	25	27	18.95			18.0	0.0	
10	QPSK	50	0	18.95			18.0	0.0	
10	16QAM	1	1	18.97			18.0	0.0	
10	16QAM	1	1	18.97			18.0	0.0	
10	256QAM	1	1	18.97			18.0	0.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	20.14	20.15	20.16	20.0	0.0	
1	QPSK	1	1	20.75	21.0	21.2	20.0	0.0	
1	QPSK	1	1	21.11	21.2	21.3	20.0	0.0	

n30_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Media Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P102 BPSK	1	1	18.20			20.0	0.0	
10	P102 BPSK	1	26	18.27			20.0	0.0	
10	P102 BPSK	1	50	18.22			20.0	0.0	
10	P102 BPSK	25	0	18.20			20.0	0.0	
10	P102 BPSK	25	14	18.28			20.0	0.0	
10	P102 BPSK	25	27	18.21			20.0	0.0	
10	P102 BPSK	50	0	18.21			20.0	0.0	
10	QPSK	1	1	18.30			20.0	0.0	
10	QPSK	1	26	18.31			20.0	0.0	
10	QPSK	1	50	18.29			20.0	0.0	
10	QPSK	25	0	18.24			20.0	0.0	
10	QPSK	25	14	18.33			20.0	0.0	
10	QPSK	25	27	18.25			20.0	0.0	
10	QPSK	50	0	18.31			20.0	0.0	
10	16QAM	1	1	18.22			20.0	0.0	
10	16QAM	1	1	18.29			20.0	0.0	
10	256QAM	1	1	18.23			20.0	0.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	20.10	20.20	20.30	20.0	0.0	
1	QPSK	1	1	20.75	21.0	21.2	20.0	0.0	
1	QPSK	1	1	21.22	21.3	21.4	20.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Media Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P102 BPSK	1	1	24.42	24.50	24.45			
40	P102 BPSK	1	108	24.50	24.41	24.54	25.0	0.0	
40	P102 BPSK	1	214	24.35	24.43	24.34			
40	P102 BPSK	108	0	24.57	24.56	24.54	24.5	0.0	
40	P102 BPSK	108	54	24.33	24.45	24.39	25.0	0.0	
40	P102 BPSK	108	108	24.50	24.53	24.51			
40	P102 BPSK	216	0	24.39	24.35	24.43	24.5	0.0	
40	QPSK	1	1	24.45	24.53	24.48			
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0	
40	QPSK	1	214	24.51	24.43	24.53			
40	QPSK	108	0	24.32	24.43	24.28	24.0	0.0	
40	QPSK	108	54	24.51	24.56	24.50	25.0	0.0	
40	QPSK	108	108	24.28	24.32	24.27			
40	16QAM	216	0	24.12	24.32	24.50	24.0	1.0	
40	16QAM	1	1	24.25	24.33	24.28	24.0	1.0	
40	16QAM	1	1	24.50	24.50	24.50	24.5	0.0	
40	256QAM	1	1	24.81	24.88	24.82	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.50	24.50	24.50	24.0	0.0	
30	QPSK	1	1	24.97	24.95	24.97	24.0	0.0	
25	QPSK	1	1	24.20	24.47	24.41	24.0	0.0	
25	QPSK	1	1	24.20	24.47	24.41	24.0	0.0	
20	QPSK	1	1	24.10	24.45	24.34	24.0	0.0	
20	QPSK	1	1	24.10	24.45	24.34	24.0	0.0	
15	QPSK	1	1	24.20	24.42	24.33	24.0	0.0	
15	QPSK	1	1	24.10	24.45	24.34	24.0	0.0	
10	QPSK	1	1	24.10	24.45	24.41	24.0	0.0	
10	QPSK	1	1	24.50	24.50	24.50	24.0	0.0	
5	QPSK	1	1	24.34	24.48	24.34	24.0	0.0	



### n66\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 34500	Mid. Ch. Freq. 34500	High Ch. Freq. 35500		
Channel								
40	PSSB-SC	1	1	18.35	18.45	18.38	17.0	0.0
Frequency (MHz)								
40	PSSB-SC	1	108	18.41	18.45	18.44	17.0	0.0
40	PSSB-SC	1	214	18.41	18.45	18.48	17.0	0.0
40	PSSB-SC	108	0	18.44	18.48	18.43	17.0	0.0
40	PSSB-SC	108	54	18.35	18.47	18.48	17.0	0.0
40	PSSB-SC	108	108	18.44	18.48	18.38	17.0	0.0
40	PSSB-SC	214	0	18.35	18.44	18.47	17.0	0.0
40	QPSK	1	1	18.51	18.56	18.51	17.0	0.0
40	QPSK	1	108	18.44	18.42	18.43	17.0	0.0
40	QPSK	1	214	18.42	18.45	18.39	17.0	0.0
40	QPSK	108	0	18.35	18.51	18.49	17.0	0.0
40	QPSK	108	54	18.48	18.52	18.50	17.0	0.0
40	QPSK	108	108	18.48	18.45	18.41	17.0	0.0
40	QPSK	214	0	18.35	18.48	18.48	17.0	0.0
40	16QAM	1	1	18.58	18.64	18.47	17.0	0.0
40	16QAM	1	1	18.46	18.52	18.48	17.0	0.0
40	256QAM	1	1	18.41	18.51	18.38	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	17.25	17.45	17.65	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.25	17.45	17.65	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	17.65	17.85	18.05	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	17.65	17.85	18.05	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	18.44	18.41	18.40	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.44	18.41	18.40	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	17.25	17.45	17.70	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.25	17.45	17.70	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	18.35	18.44	18.37	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.35	18.44	18.37	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	17.25	17.45	17.70	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.25	17.45	17.70	17.0	0.0
Channel								
Frequency (MHz)	1	1	1	18.44	18.51	18.41	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.44	18.51	18.41	17.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 34500	Mid. Ch. Freq. 34500	High Ch. Freq. 35500		
Channel								
40	PSSB-SC	1	1	22.88	22.92	22.83	24.5	0.0
40	PSSB-SC	1	108	22.72	22.85	22.78	24.5	0.0
40	PSSB-SC	1	214	22.82	22.89	22.73	24.5	0.0
40	PSSB-SC	108	0	22.78	22.92	22.78	24.5	0.0
40	PSSB-SC	108	54	22.78	22.83	22.78	24.5	0.0
40	PSSB-SC	108	108	22.78	22.92	22.78	24.5	0.0
40	PSSB-SC	214	0	22.78	22.92	22.78	24.5	0.0
40	QPSK	1	1	22.92	22.92	22.88	24.5	0.0
40	QPSK	1	108	22.82	22.88	22.83	24.5	0.0
40	QPSK	1	214	22.84	22.92	22.78	24.5	0.0
40	QPSK	108	0	21.70	21.82	21.89	23.0	1.0
40	QPSK	108	54	21.74	21.80	21.78	23.0	1.0
40	QPSK	108	108	21.88	21.73	21.67	23.0	1.0
40	QPSK	214	0	21.70	21.80	21.84	23.0	1.0
40	16QAM	1	1	21.78	21.80	21.78	23.0	1.0
40	16QAM	1	1	20.91	20.92	20.92	23.0	2.5
40	256QAM	1	1	18.97	18.98	18.20	20.0	4.0
Channel								
Frequency (MHz)	1	1	1	17.25	17.45	17.65	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.25	17.45	17.65	24.5	1.0
Channel								
Frequency (MHz)	1	1	1	17.65	17.85	18.05	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	17.65	17.85	18.05	24.5	1.0
Channel								
Frequency (MHz)	1	1	1	17.25	17.45	17.70	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.25	17.45	17.70	24.5	1.0
Channel								
Frequency (MHz)	1	1	1	18.35	18.44	18.37	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.35	18.44	18.37	24.5	1.0
Channel								
Frequency (MHz)	1	1	1	17.25	17.45	17.70	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.25	17.45	17.70	24.5	1.0
Channel								
Frequency (MHz)	1	1	1	18.44	18.41	18.40	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.44	18.41	18.40	24.5	1.0

### n71\_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 18100	Mid. Ch. Freq. 18100	High Ch. Freq. 19100		
Channel								
20	PSSB-SC	1	1	24.43	24.40	24.55	24.0	0.0
20	PSSB-SC	1	30	24.37	24.40	24.40	24.0	0.0
20	PSSB-SC	1	104	24.33	24.32	24.47	24.0	0.0
20	PSSB-SC	30	0	24.35	24.35	24.31	25.5	0.5
20	PSSB-SC	30	28	24.35	24.34	24.44	25.0	0.0
20	PSSB-SC	30	56	24.35	24.37	24.31	25.5	0.5
20	PSSB-SC	100	0	23.82	24.05	23.88	25.5	0.5
20	QPSK	1	1	24.48	24.53	24.50	24.0	0.0
20	QPSK	1	30	24.48	24.53	24.40	24.0	0.0
20	QPSK	1	104	24.48	24.50	24.51	24.0	0.0
20	QPSK	30	0	23.49	23.59	23.43	25.0	1.0
20	QPSK	30	28	24.48	24.54	24.50	25.0	0.0
20	QPSK	30	56	23.42	23.58	23.49	25.0	1.0
20	16QAM	1	1	23.42	23.55	23.50	25.0	1.0
20	16QAM	1	1	21.14	21.30	21.30	23.5	2.5
20	256QAM	1	1	19.73	19.83	19.72	23.5	4.0
Channel								
Frequency (MHz)	1	1	1	18.05	18.05	18.05	Turn-up limit (dBm)	MPR (dB)
15	PSSB-SC	1	1	18.05	18.05	18.05	24.0	0.0
Channel								
Frequency (MHz)	1	1	1	18.43	18.43	18.43	Turn-up limit (dBm)	MPR (dB)
10	PSSB-SC	1	1	18.43	18.43	18.43	24.0	0.0
Channel								
Frequency (MHz)	1	1	1	18.05	18.05	18.05	Turn-up limit (dBm)	MPR (dB)
5	PSSB-SC	1	1	18.05	18.05	18.05	24.0	0.0



n71_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Totalsq (dBm)	APRS (dB)
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SSBSC	1	1	24.43	24.43	24.43		
10	PCF-SSBSC	1	50	24.37	24.40	24.40	24.0	0.5
10	PCF-SSBSC	1	104	24.33	24.32	24.27		
10	PCF-SSBSC	50	0	23.79	24.05	23.95	25.1	0.5
10	PCF-SSBSC	50	26	24.35	24.34	24.34	25.0	0.5
10	PCF-SSBSC	50	50	23.75	23.97	23.95		
10	PCF-SSBSC	100	0	23.42	24.05	23.98	25.5	0.5
10	QPSK	1	1	24.49	24.53	24.49		
10	QPSK	1	50	24.48	24.53	24.49	26.0	0.0
10	QPSK	1	104	24.45	24.45	24.51		
10	QPSK	50	0	23.49	23.59	23.43	25.0	1.0
10	QPSK	50	26	24.45	24.54	24.39	25.0	1.0
10	QPSK	50	50	23.42	23.58	23.49		
10	QPSK	100	0	23.42	23.55	23.39	25.0	1.0
10	16QAM	1	1	23.98	23.52	23.39	25.0	1.0
10	16QAM	1	1	23.74	23.45	23.35	23.5	2.5
10	256QAM	1	1	19.33	19.53	19.32	21.5	4.5
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SSBSC	1	1	24.43	24.43	24.43		
Channel								
Frequency (MHz)				13.7650	13.7100	13.6550		
10	PCF-SSBSC	1	1	13.7650	13.7100	13.6550	25.0	1.0
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SSBSC	1	1	24.43	24.43	24.43	25.0	0.5
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SSBSC	1	1	24.43	24.43	24.43	25.0	1.0



n38_Ant 1									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	24.23	24.35	24.30		25.0	0.0
40	P12 BPSK	1	93	24.27	24.30	24.21		25.0	0.0
40	P12 BPSK	1	104	24.20	24.28	24.24		25.0	0.0
40	P12 BPSK	50	0	24.24	24.32	24.24		24.5	0.5
40	P12 BPSK	50	28	24.20	24.32	24.23		25.0	0.0
40	P12 BPSK	26	0	24.29	24.35	24.34		24.5	0.5
40	P12 BPSK	26	26	24.27	24.35	24.35		25.0	0.0
40	P12 BPSK	100	0	24.28	24.33	24.30		24.5	0.5
40	QPSK	1	1	24.28	24.42	24.35		25.0	0.0
40	QPSK	1	93	24.24	24.35	24.30		25.0	0.0
40	QPSK	1	104	24.17	24.26	24.20		25.0	0.0
40	QPSK	50	0	24.15	24.25	24.13		25.0	0.0
40	QPSK	50	28	24.23	24.35	24.27		25.0	0.0
40	QPSK	50	56	24.24	24.35	24.31		25.0	0.0
40	QPSK	100	0	24.18	24.22	24.19		24.0	1.0
40	120QAM	1	1	23.04	23.18	23.09		24.0	1.0
40	120QAM	50	56	23.14	23.25	23.11		23.5	1.5
40	256QAM	1	1	21.75	21.84	21.71		20.5	1.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.75	19.84	19.70		20.5	1.5
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.23	19.33	19.19		20.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.23	18.35	18.29		20.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.24	18.35	18.23		20.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.77	17.01	16.92		19.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.24	14.27	14.20		20.0	0.0

n38_Ant 2									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	15.84	15.84	15.79		16.5	0.0
40	P12 BPSK	1	93	15.85	15.90	15.77		16.5	0.0
40	P12 BPSK	1	104	15.82	15.93	15.84		16.5	0.0
40	P12 BPSK	50	0	15.86	15.91	15.77		16.5	0.0
40	P12 BPSK	50	28	15.81	15.90	15.84		16.5	0.0
40	P12 BPSK	26	0	15.89	15.99	15.84		16.5	0.0
40	P12 BPSK	26	26	15.87	15.92	15.83		16.5	0.0
40	P12 BPSK	100	0	15.79	15.90	15.79		16.5	0.0
40	QPSK	1	1	15.95	15.98	15.93		16.5	0.0
40	QPSK	1	93	15.79	15.90	15.79		16.5	0.0
40	QPSK	1	104	15.87	15.92	15.83		16.5	0.0
40	QPSK	50	0	15.86	15.96	15.76		16.5	0.0
40	QPSK	50	28	15.82	15.95	15.90		16.5	0.0
40	QPSK	50	56	15.80	15.90	15.85		16.5	0.0
40	QPSK	100	0	15.88	15.10	15.08		16.5	0.0
40	120QAM	1	1	15.89	15.89	15.77		16.5	0.0
40	120QAM	50	56	15.86	15.83	15.81		16.5	0.0
40	256QAM	1	1	15.83	15.86	15.78		16.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.79	15.85	15.83		16.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.84	15.90	15.1496		16.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.86	15.86	15.81		16.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.79	15.88	15.79		16.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.80	15.87	15.71		16.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.81	15.88	15.81		16.5	0.0

n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mid Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	23.41	23.43	23.42		25.0	0.0
100	P12 BPSK	1	197	23.35	23.45	23.43		25.0	0.0
100	P12 BPSK	1	271	23.39	23.37	23.38		25.0	0.0
100	P12 BPSK	196	0	23.37	23.45	23.38		25.0	0.0
100	P12 BPSK	136	66	23.28	23.39	23.39		25.0	0.0
100	P12 BPSK	136	136	23.36	23.46	23.43		25.0	0.0
100	P12 BPSK	270	0	23.35	23.45	23.45		25.0	0.0
100	QPSK	1	1	23.45	23.39	23.55		25.0	0.0
100	QPSK	1	197	23.35	23.42	23.41		25.0	0.0
100	QPSK	1	271	23.46	23.33	23.41		25.0	0.0
100	QPSK	136	0	23.39	23.38	23.39		25.0	0.0
100	QPSK	136	66	23.30	23.41	23.37		25.0	0.0
100	QPSK	136	136	23.32	23.43	23.34		25.0	0.0
100	QPSK	270	0	23.01	23.13	23.04		25.0	0.0
100	120QAM	1	1	21.48	21.92	21.85		23.0	2.0
100	120QAM	1	1	21.35	21.85	21.83		25.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.41	23.43	23.44		25.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.36	23.54	23.46		25.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44		25.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.30	23.51	23.42		25.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.36	23.52	23.49		25.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.39	23.42	23.43		25.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.51	23.44		25.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.35	23.41	23.47		25.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43		25.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.44		25.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.38	23.43	23.47		25.0	0.0



### n41\_HPUE\_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	26.12	26.24	26.36	27.5	0.0
100	P12 BPSK	1	137	26.00	26.14	26.28	27.0	0.0
100	P12 BPSK	1	271	26.27	26.36	26.45	27.5	0.0
100	P12 BPSK	155	69	26.13	26.18	26.23	27.0	0.0
100	P12 BPSK	155	138	26.22	26.28	26.35	27.0	0.0
100	P12 BPSK	270	0	26.40	26.50	26.60	27.0	0.0
100	QPSK	1	1	26.10	26.10	26.33	27.5	0.0
100	QPSK	1	271	26.31	26.29	26.11	27.5	1.0
100	QPSK	155	69	26.03	26.12	26.21	26.5	1.0
100	QPSK	155	138	26.04	26.09	26.14	27.0	1.0
100	QPSK	270	0	26.18	26.22	26.27	26.5	1.0
100	TDMA	1	1	26.00	26.16	26.32	27.5	0.0
100	TDMA	1	1	26.05	26.07	26.07	27.5	0.0
100	25GDM	1	1	21.88	21.77	21.62	22.5	4.5
Frequency (MHz)								
80	QPSK	1	1	25.90	25.77	25.67	27.5	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.86	25.17	25.68	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.86	26.16	26.03	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.84	25.99	26.09	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.84	26.11	26.04	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.02	26.19	26.02	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.11	26.02	26.04	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	26.09	26.17	26.05	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.02	26.08	26.05	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.03	26.02	26.02	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.02	26.17	26.00	27.5	1.0

### n41\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	14.88	15.09	15.06	16.5	0.0
100	P12 BPSK	1	137	14.88	15.00	15.04	16.5	0.0
100	P12 BPSK	1	271	15.00	14.89	14.88	16.5	0.0
100	P12 BPSK	155	69	15.00	15.07	15.05	16.5	0.0
100	P12 BPSK	155	138	15.01	15.08	15.04	16.5	0.0
100	P12 BPSK	270	0	15.03	15.03	15.03	16.5	0.0
100	QPSK	1	1	15.00	15.15	15.13	16.5	0.0
100	QPSK	1	137	15.00	15.00	15.04	16.5	0.0
100	QPSK	1	271	15.01	15.00	15.02	16.5	0.0
100	QPSK	155	69	15.00	15.01	15.06	16.5	0.0
100	QPSK	155	138	15.00	15.12	15.10	16.5	0.0
100	QPSK	270	0	15.02	15.10	15.09	16.5	0.0
100	TDMA	1	1	14.86	15.05	15.05	16.5	0.0
100	TDMA	1	1	14.86	15.05	15.06	16.5	0.0
100	25GDM	1	1	14.88	15.05	15.05	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.00	15.00	15.05	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.04	15.04	15.05	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.85	15.03	15.08	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.90	14.99	14.99	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.94	15.02	15.02	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.04	15.00	14.87	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.11	15.02	14.94	16.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.99	15.00	15.05	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.84	15.05	14.89	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.03	15.00	15.01	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.84	14.84	14.84	16.5	0.0

### n41\_HPUE\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	17.53	17.84	17.76	19.0	0.0
100	P12 BPSK	1	137	17.52	17.74	17.71	19.0	0.0
100	P12 BPSK	1	271	17.63	17.80	17.80	19.0	0.0
100	P12 BPSK	155	69	17.51	17.76	17.75	19.0	0.0
100	P12 BPSK	155	138	17.63	17.78	17.72	19.0	0.0
100	P12 BPSK	270	0	17.65	17.82	17.79	19.0	0.0
100	QPSK	1	1	17.48	17.60	17.65	19.0	0.0
100	QPSK	1	137	17.54	17.82	17.78	19.0	0.0
100	QPSK	1	271	17.59	17.85	17.89	19.0	0.0
100	QPSK	155	69	17.53	17.76	17.80	19.0	0.0
100	QPSK	155	138	17.65	17.88	17.83	19.0	0.0
100	QPSK	270	0	17.63	17.85	17.81	19.0	0.0
100	TDMA	1	1	17.50	17.70	17.75	19.0	0.0
100	TDMA	1	1	17.53	17.74	17.77	19.0	0.0
100	25GDM	1	1	17.52	17.63	17.78	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.53	17.65	17.74	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.55	17.74	17.70	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.62	17.82	17.71	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.64	17.80	17.80	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.57	17.82	17.73	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.62	17.77	17.77	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.60	17.80	17.72	19.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.55	17.77	17.74	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.53	17.82	17.74	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.53	17.82	17.73	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.52	17.74	17.73	19.0	0.0



n41_Ant 8										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	23.41	23.53	23.52				
100	P12 BPSK	1	137	23.32	23.45	23.00	25.0	0.0		
100	P12 BPSK	1	271	23.29	23.37	23.36				
100	P12 BPSK	155	9	23.29	23.45	23.36	25.0	0.0		
100	P12 BPSK	155	69	23.29	23.39	23.39	25.0	0.0		
100	P12 BPSK	155	137	23.26	23.46	23.41				
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0		
100	QPSK	1	1	23.45	23.59	23.55				
100	QPSK	1	137	23.35	23.49	23.00	25.0	0.0		
100	QPSK	1	271	23.48	23.53	23.41				
100	QPSK	155	9	23.27	23.38	23.34				
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0		
100	QPSK	155	137	23.32	23.43	23.34				
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0		
100	12QAM	1	1	23.48	23.53	23.39	25.0	0.0		
100	12QAM	1	1	23.35	23.50	23.43	25.0	0.0		
100	256QAM	1	1	21.85	21.95	21.85	23.0	2.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.53	23.43	23.42	25.0	0.0		
Channel										
Frequency (MHz)										
86	QPSK	1	1	23.35	23.54	23.49	25.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.06	25.09	25.09	25.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.32	23.42	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.31	23.51	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.32	23.53	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.33	23.53	23.47	25.0	0.0		

n41_HPUE_Ant 8										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	26.12	26.24	26.10				
100	P12 BPSK	1	137	26.00	26.14	26.03	27.5	0.0		
100	P12 BPSK	1	271	26.27	26.39	26.35				
100	P12 BPSK	155	9	26.07	26.17	26.05	27.0	0.5		
100	P12 BPSK	155	69	26.13	26.18	26.08	27.5	0.0		
100	P12 BPSK	155	137	26.12	26.28	26.25				
100	P12 BPSK	270	9	26.05	26.07	26.05	27.0	0.5		
100	QPSK	1	1	26.10	26.39	26.33				
100	QPSK	1	137	26.03	26.11	26.08	27.5	0.0		
100	QPSK	1	271	26.31	26.29	26.11				
100	QPSK	155	9	26.04	26.15	26.07	28.5	1.0		
100	QPSK	155	69	26.04	26.09	26.08	27.5	0.5		
100	QPSK	155	137	26.09	26.26	26.25				
100	12QAM	1	1	25.00	25.16	25.05	27.5	1.0		
100	12QAM	1	1	25.06	25.22	25.07	27.5	2.5		
100	256QAM	1	1	21.68	21.77	21.62	27.5	4.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.08	25.17	25.07	27.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.08	26.17	25.08	27.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.06	26.16	25.03	27.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	26.02	26.09	26.09	27.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	26.04	26.11	26.04	27.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	26.02	26.19	26.02	27.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.00	25.17	25.05	27.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	26.02	26.17	26.02	27.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	26.02	26.08	26.05	27.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	26.03	26.15	26.04	27.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	26.02	26.17	26.06	27.5	0.0		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	23.41	23.53	23.52				
100	P12 BPSK	1	137	23.32	23.45	23.00	25.0	0.0		
100	P12 BPSK	1	271	23.29	23.37	23.36				
100	P12 BPSK	155	9	23.29	23.45	23.36	25.0	0.0		
100	P12 BPSK	155	69	23.29	23.39	23.39	25.0	0.0		
100	P12 BPSK	155	137	23.26	23.46	23.41				
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0		
100	QPSK	1	1	23.45	23.59	23.55				
100	QPSK	1	137	23.35	23.49	23.00	25.0	0.0		
100	QPSK	1	271	23.48	23.53	23.41				
100	QPSK	155	9	23.27	23.38	23.34				
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0		
100	QPSK	155	137	23.32	23.43	23.34				
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0		
100	12QAM	1	1	23.48	23.53	23.39	25.0	0.0		
100	12QAM	1	1	23.35	23.49	23.43	25.0	0.0		
100	256QAM	1	1	21.86	21.92	21.85	25.0	2.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.53	23.43	23.42	25.0	0.0		
Channel										
Frequency (MHz)										
86	QPSK	1	1	23.35	23.54	23.49	25.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.06	25.09	25.09	25.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.34	23.53	23.41	25.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.32	23.42	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.11	23.22	23.18	25.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.35	23.43	23.47	25.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.31	23.51	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.32	23.53	23.43	25.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.33	23.53	23.47	25.0	0.0		



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	28.12	28.24	28.10			
100	P12 BPSK	1	137	28.00	28.24	28.03	27.5	0.0	
100	P12 BPSK	1	271	28.27	28.38	28.25			
100	P12 BPSK	155	9	28.27	28.37	28.34	27.5	0.5	
100	P12 BPSK	155	69	28.13	28.18	28.08	27.5	0.0	
100	P12 BPSK	155	128	28.12	28.18	28.08			
100	P12 BPSK	155	1	28.00	28.24	28.05	27.0	0.5	
100	QPSK	1	137	28.10	28.38	28.33	27.5	0.0	
100	QPSK	1	271	28.21	28.29	28.11			
100	QPSK	155	9	28.27	28.29	28.34	28.5	1.0	
100	QPSK	155	69	28.04	28.09	28.08	27.5	0.0	
100	QPSK	155	128	28.10	28.20	28.07	26.5	1.0	
100	QPSK	155	0	28.00	28.24	28.05			
100	TDMA	1	1	28.00	28.16	28.05	27.5	0.5	
100	TDMA	1	1	28.00	28.07	28.07	27.5	0.5	
100	25GDM	1	1	21.63	21.77	21.62	27.5	0.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.27	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.27	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.00	28.16	28.03	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.26	28.29	28.28			
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.04	28.11	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	28.00	28.19	28.02	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.17	28.05	27.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	28.00	28.17	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.00	28.08	28.06	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	28.00	28.19	28.01	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.00	28.17	28.06	27.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	9	22.36	22.46	22.37	23.5	0.0	
40	P12 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	28	22.36	22.46	22.37			
40	P12 BPSK	100	0	22.31	22.50	22.38	23.5	0.0	
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	9	22.18	22.50	22.50	23.5	0.0	
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GDM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	9	22.36	22.46	22.37	23.5	0.0	
40	P12 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	28	22.36	22.46	22.37			
40	P12 BPSK	100	0	22.31	22.50	22.38	23.5	0.0	
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	9	22.18	22.50	22.50	23.5	0.0	
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GDM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit (dBm)	MPR (dB)	
40	PB2 BPSK	1	1	19.83	20.08	19.94			
40	PB2 BPSK	1	53	19.82	20.04	20.00	21.0	0.0	
40	PB2 BPSK	1	104	19.80	20.01	20.00			
40	PB2 BPSK	50	0	19.83	20.07	19.97	21.0	0.0	
40	PB2 BPSK	50	28	19.83	20.08	20.03	21.0	0.0	
40	PB2 BPSK	50	76	19.82	20.03	19.96	21.0	0.0	
40	PB2 BPSK	100	0	19.80	20.05	19.90	21.0	0.0	
40	QPSK	1	1	19.85	20.13	20.09			
40	QPSK	1	53	19.80	19.99	19.93	21.0	0.0	
40	QPSK	1	104	19.82	20.02	20.01			
40	QPSK	50	0	19.81	20.04	20.04			
40	QPSK	50	28	19.82	20.11	20.05	21.0	0.0	
40	QPSK	50	76	19.81	19.98	19.96	21.0	0.0	
40	QPSK	100	0	19.80	20.08	20.02	21.0	0.0	
40	16QAM	1	1	19.88	20.06	19.87	21.0	0.0	
40	16QAM	1	1	19.71	19.98	19.95	21.0	0.0	
40	256QAM	1	1	19.89	20.01	19.95	20.5	0.5	
Channel				3258.00	84160.00	84560.00	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3258.00	84160.00	84560.00			
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	19.80	20.07	19.99	21.0	0.0	
Channel									
Frequency (MHz)				83718	84166	84618	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	19.80	20.07	19.99	21.0	0.0	
Channel									
Frequency (MHz)				83552	84166	84654	Tune-up limit (dB)	MPR (dB)	
15	QPSK	1	1	19.83	20.04	19.94	21.0	0.0	
Channel									
Frequency (MHz)				31500	84166	84633	Tune-up limit (dB)	MPR (dB)	
10	QPSK	1	1	19.85	20.07	20.01	21.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84166	84532	Tune-up limit (dBm)	MPR (dB)	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	53	22.37	22.40	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.46	22.54	22.43			
40	PB2 BPSK	50	0	22.36	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.38	22.52	23.5	0.0	
40	PB2 BPSK	50	76	22.35	22.44	22.32	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.46	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.39	22.39			
40	QPSK	1	53	22.28	22.36	22.42	23.5	0.0	
40	QPSK	1	104	22.31	22.34	22.45			
40	QPSK	50	0	22.16	22.32	22.32			
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	76	22.16	22.17	22.23			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.05	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83734	84166	84600	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				83734	84166	84600			
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	22.33	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83718	84166	84618	Tune-up limit (dB)	MPR (dB)	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83552	84166	84654	Tune-up limit (dB)	MPR (dB)	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)				31500	84166	84633	Tune-up limit (dB)	MPR (dB)	
10	QPSK	1	1	22.30	22.43	22.31	23.5	0.0	







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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIC-BPSK	1	1	15.25	15.25	15.25		
100	PIC-BPSK	1	137	26.25	26.25	26.25	27.5	0.0
100	PIC-BPSK	1	271	26.36	26.36	26.36		
100	PIC-BPSK	155	9	26.14	26.14	26.14	27.5	0.0
100	PIC-BPSK	155	18	26.21	26.21	26.21	27.5	0.0
100	PIC-BPSK	155	138	26.19	26.19	26.19		
100	PIC-BPSK	270	9	26.02	26.02	26.02	27.5	0.0
100	QPSK	1	1	26.05	26.05	26.05		
100	QPSK	1	137	26.09	26.09	26.09	27.5	0.0
100	QPSK	1	271	26.26	26.26	26.26		
100	QPSK	155	9	26.37	26.37	26.37	27.5	0.0
100	QPSK	155	18	26.47	26.47	26.47		
100	QPSK	155	138	26.33	26.33	26.33		
100	QPSK	270	9	26.44	26.44	26.44	26.5	1.0
100	16QAM	1	1	26.44	26.44	26.44	26.5	1.0
100	16QAM	1	137	26.48	26.48	26.48	26.5	1.0
100	16QAM	1	271	26.66	26.66	26.66		
Channel								
Frequency (MHz)								
96	QPSK	1	1	83000	83300	83896	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
96	QPSK	1	1	26.25	26.24	26.24	27.5	0.0
Channel								
Frequency (MHz)								
84	QPSK	1	1	340.02	343.33	348.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
76	QPSK	1	1	340.02	343.33	348.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	440.00	443.00	448.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	440.00	443.00	448.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.25	26.25	26.25	27.5	0.0
Channel								
Frequency (MHz)								
36	QPSK	1	1	26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.33	26.33	26.33	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.23	26.23	26.23	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.31	26.31	26.31	27.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIC-BPSK	1	1	15.25	15.25	15.25		
100	PIC-BPSK	1	137	26.27	26.24	26.23	25.0	0.0
100	PIC-BPSK	1	271	26.80	26.76	26.72		
100	PIC-BPSK	155	9	26.80	26.82	26.81	25.0	0.0
100	PIC-BPSK	155	18	26.83	26.84	26.83	25.0	0.0
100	PIC-BPSK	155	138	26.79	26.80	26.79		
100	PIC-BPSK	270	9	26.70	26.80	26.80	25.0	0.0
100	QPSK	1	1	26.72	26.73	26.74	25.0	0.0
100	QPSK	1	137	26.74	26.74	26.74	25.0	0.0
100	QPSK	1	271	26.84	26.84	26.84		
100	QPSK	155	9	26.70	26.74	26.72	25.0	0.0
100	QPSK	155	18	26.84	26.84	26.84	25.0	0.0
100	QPSK	155	138	26.78	26.78	26.81		
100	QPSK	270	9	26.74	26.78	26.80	25.0	0.0
100	16QAM	1	1	26.85	26.85	26.85	25.0	0.0
100	16QAM	1	137	26.70	26.70	26.70	25.0	0.0
100	16QAM	1	271	26.77	26.77	26.77	25.0	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	84898	85000	85232	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
96	QPSK	1	1	26.71	26.67	26.62	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	84854	85000	85246	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
76	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
36	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.74	26.67	26.60	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.72	26.68	26.62	25.0	0.0

Par27Q n77 HPUE\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PIC-BPSK	1	1	15.25	15.25	15.25		
100	PIC-BPSK	1	137	26.41	26.37	26.39	27.5	0.0
100	PIC-BPSK	1	271	26.70	26.70	26.64		
100	PIC-BPSK	155	9	26.26	26.32	26.36	27.5	0.0
100	PIC-BPSK	155	18	26.43	26.48	26.50	27.5	0.0
100	PIC-BPSK	155	138	26.42	26.44	26.37	27.5	0.0
100	PIC-BPSK	270	9	26.36	26.37	26.36		
100	QPSK	1	1	26.59	26.59	26.61	27.5	0.0
100	QPSK	1	137	26.43	26.49	26.54	27.5	0.0
100	QPSK	1	271	26.64	26.72	26.72		
100	QPSK	155	9	26.59	26.59	26.59	27.5	0.0
100	QPSK	155	18	26.51	26.50	26.51	27.5	0.0
100	QPSK	155	138	26.69	26.61	26.69	27.5	0.0
100	QPSK	270	9	26.50	26.51	26.51	27.5	0.0
100	16QAM	1	1	26.51	26.51	26.51	26.5	1.0
100	16QAM	1	137	26.44	26.46	26.53	26.5	1.0
100	16QAM	1	271	26.58	26.51	26.41	26.5	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	84898	85000	85232	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
96	QPSK	1	1	26.42	26.32	26.53	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	84854	85000	85246	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
76	QPSK	1	1	26.51	26.59	26.51	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.51	26.59	26.51	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.51	26.59	26.51	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.51	26.59	26.51	27.5	0.0
Channel								
Frequency (MHz)								
36	QPSK	1	1	26.51	26.59	26.51	27.5	0.0
Channel								
Frequency (MHz)								
26	QPSK	1	1	26.42	26.63	26.40	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.44	26.60	26.53	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.51	26.72	26.41	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.65	26.59	26.49	27.5	0.0



Par27Q n77\_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hgh Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include Channel, Frequency (MHz), and various QPSK configurations for channels 96-10.

Par27Q n77 HPUE\_Ant 9

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hgh Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include Channel, Frequency (MHz), and various QPSK configurations for channels 96-10.

Par27Q n77\_Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power Hgh Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include Channel, Frequency (MHz), and various QPSK configurations for channels 96-10.



### Par270 n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PUSC	1	1	21.85	22.25	22.24		
100	PUSC	1	137	22.05	22.22	22.28	23.0	0.0
100	PUSC	1	271	22.05	22.20	22.28		
100	PUSC	135	9	22.05	22.20	22.27	23.0	0.0
100	PUSC	135	89	22.05	22.25	22.24	23.0	0.0
100	PUSC	135	138	21.85	22.21	22.20		
100	PUSC	270	9	22.05	22.20	22.19	23.0	0.0
100	QPSK	1	1	21.72	22.28	22.28		
100	QPSK	1	137	21.80	22.20	22.28	23.0	0.0
100	QPSK	1	271	22.05	22.22	22.21		
100	QPSK	135	9	21.85	22.25	22.21	23.0	0.0
100	QPSK	135	89	21.72	22.25	22.21		
100	QPSK	135	138	22.07	22.28	22.28		
100	QPSK	270	9	22.05	22.20	22.20	23.0	0.0
100	HDQAM	1	1	21.85	22.22	22.21	23.0	0.0
100	HDQAM	1	137	22.05	22.20	22.28	23.0	0.0
100	HDQAM	1	271	22.05	22.21	22.21		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.05	19.00	19.08	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.45	18.40	18.48	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.85	17.80	17.88	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.25	17.20	17.28	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.65	16.60	16.68	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.05	16.00	16.08	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.45	15.40	15.48	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.85	14.80	14.88	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.25	14.20	14.28	20.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PUSC	1	1	19.22	19.22	19.22		
100	PUSC	1	137	19.09	19.09	19.09	20.5	0.0
100	PUSC	135	9	19.09	19.09	19.09		
100	PUSC	135	89	19.11	19.11	19.11	20.5	0.0
100	PUSC	135	138	19.08	19.08	19.08	20.5	0.0
100	PUSC	270	9	19.09	19.09	19.09	20.5	0.0
100	QPSK	1	1	19.16	19.16	19.16		
100	QPSK	1	137	19.10	19.10	19.10	20.5	0.0
100	QPSK	1	271	19.05	19.05	19.05		
100	QPSK	135	9	19.04	19.04	19.04	20.5	0.0
100	QPSK	135	89	19.05	19.05	19.05		
100	QPSK	135	138	19.06	19.06	19.06	20.5	0.0
100	QPSK	270	9	19.08	19.08	19.08	20.5	0.0
100	HDQAM	1	1	19.18	19.18	19.18	20.5	0.0
100	HDQAM	1	137	19.07	19.07	19.07	20.5	0.0
100	HDQAM	1	271	19.10	19.10	19.10	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.60	18.55	18.68	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.00	17.95	18.08	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.40	17.35	17.48	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.80	16.75	16.88	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.20	16.15	16.28	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.60	15.55	15.68	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.00	14.95	15.08	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.40	14.35	14.48	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.80	13.75	13.88	20.5	0.0

### Par27Q n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PUSC	1	1	21.78	21.78	21.78		
100	PUSC	1	137	21.83	21.83	21.83	23.0	0.0
100	PUSC	135	9	21.78	21.78	21.78		
100	PUSC	135	89	21.75	21.75	21.75	23.0	0.0
100	PUSC	135	138	21.76	21.76	21.76	23.0	0.0
100	PUSC	270	9	21.78	21.78	21.78	23.0	0.0
100	QPSK	1	1	21.81	21.81	21.81		
100	QPSK	1	137	21.81	21.81	21.81	23.0	0.0
100	QPSK	1	271	21.81	21.81	21.81		
100	QPSK	135	9	21.78	21.78	21.78	23.0	0.0
100	QPSK	135	89	21.85	21.85	21.85	23.0	0.0
100	QPSK	135	138	21.78	21.78	21.78	23.0	0.0
100	QPSK	270	9	21.83	21.83	21.83	23.0	0.0
100	HDQAM	1	1	21.74	21.74	21.74	23.0	0.0
100	HDQAM	1	137	21.78	21.78	21.78	23.0	0.0
100	HDQAM	1	271	21.82	21.82	21.82	23.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.77	21.81	21.78	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.92	21.92	21.92	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.84	21.83	21.83	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.76	21.85	21.78	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.80	21.82	21.82	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.83	21.79	21.80	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.85	21.85	21.85	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.74	21.81	21.80	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.72	21.79	21.78	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.72	21.85	21.78	23.0	0.0



Par270 n77\_Ant 10

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi2 BPSK, QPSK, and HDQAM at different BWs and power levels.

Par270 n77 HPUE\_Ant 10

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi2 BPSK, QPSK, and HDQAM at different BWs and power levels.

Par270 n77\_Ant 10

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi2 BPSK, QPSK, and HDQAM at different BWs and power levels.



Par27Q n77 HPUE\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power Hgh. Ch. / Freq.	Tune-up time (min)	HPUE (dB)
Channel								
Frequency (MHz)								
100	PL2 QPSK	1	1	26.22	26.22			
100	PL2 QPSK	1	137	26.23	26.23		27.5	0.0
100	PL2 QPSK	1	271	26.26	26.26			
100	PL2 QPSK	135	6	26.04	26.04		27.5	0.0
100	PL2 QPSK	135	69	26.21	26.21		27.5	0.0
100	PL2 QPSK	135	138	26.10	26.10		27.5	0.0
100	PL2 QPSK	270	0	26.09	26.09		27.5	0.0
100	QPSK	1	1	26.36	26.36			
100	QPSK	1	137	26.09	26.09		27.5	0.0
100	QPSK	1	271	26.36	26.36			
100	QPSK	135	6	26.57	26.57			
100	QPSK	135	69	26.51	26.51		27.5	0.0
100	QPSK	135	138	26.53	26.53			
100	QPSK	270	0	26.54	26.54		26.5	1.0
100	QPSK	1	1	26.44	26.44		26.5	1.0
100	HDQAM	1	1	26.06	26.06		26.0	2.5
100	HDQAM	1	1	21.05	21.05		26.0	2.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83330	83360	Tune-up time (min)	HPUE (dB)
				3465	3469.98	3474.97		
				26.25	26.24	26.26	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83200	83230	83260	Tune-up time (min)	HPUE (dB)
				3466.02	3470.98	3475.97		
				26.29	26.31	26.31	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	83284	83332	83382	Tune-up time (min)	HPUE (dB)
				82600	82632	82662		
				26.32	26.30	26.28	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83000	83032	83062	Tune-up time (min)	HPUE (dB)
				3460	3463.98	3467.97		
				26.33	26.25	26.30	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83166	83192	83218	Tune-up time (min)	HPUE (dB)
				3472.02	3474.98	3477.97		
				26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	83134	83332	83332	Tune-up time (min)	HPUE (dB)
				3473.01	3469.98	3509.98		
				26.25	26.31	26.34	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	83100	83132	83162	Tune-up time (min)	HPUE (dB)
				3465	3469.98	3474.97		
				26.33	26.33	26.33	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	83034	83332	83332	Tune-up time (min)	HPUE (dB)
				3468.01	3471.98	3475.97		
				26.30	26.28	26.30	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	83000	83332	83332	Tune-up time (min)	HPUE (dB)
				3469.02	3469.98	3469.98		
				26.33	26.33	26.34	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	83020	83332	83332	Tune-up time (min)	HPUE (dB)
				3472.5	3472.5	3472.5		
				26.23	26.22	26.33	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	83034	83332	83332	Tune-up time (min)	HPUE (dB)
				3469.01	3469.98	3469.98		
				26.31	26.31	26.33	27.5	0.0



State 10 Power

n2_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	PIG BPSK	1	1	23.95	23.95	23.95	0.0
20	PIG BPSK	1	53	23.95	23.95	23.95	25.0
20	PIG BPSK	1	104	23.75	23.85	23.77	24.5
20	PIG BPSK	50	0	23.75	23.75	23.75	0.0
20	PIG BPSK	50	28	23.72	23.82	23.85	25.0
20	PIG BPSK	50	56	23.71	23.79	23.73	24.5
20	PIG BPSK	100	0	23.71	23.75	23.75	0.0
20	QPSK	1	1	23.96	23.95	23.95	0.0
20	QPSK	1	53	23.78	23.84	23.85	25.0
20	QPSK	1	104	23.95	23.95	23.95	25.0
20	QPSK	50	0	23.95	23.95	23.95	0.0
20	QPSK	50	28	23.95	23.95	23.95	25.0
20	QPSK	50	56	23.95	23.95	23.95	24.0
20	MSKAM	1	1	23.71	23.72	23.83	24.0
20	MSKAM	1	1	23.46	23.76	23.46	25.0
20	MSKAM	1	1	19.46	19.53	19.44	20.5
Channel							
15	QPSK	1	1	19.73	19.80	19.72	20.5
15	QPSK	1	1	23.12	23.12	23.12	0.0
Channel							
10	QPSK	1	1	23.80	23.80	23.80	25.0
Channel							
5	QPSK	1	1	19.73	19.80	19.72	20.5

n2_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	PIG BPSK	1	1	22.00	22.03	21.98	0.0
20	PIG BPSK	1	53	21.91	21.95	21.91	23.0
20	PIG BPSK	1	104	21.87	21.87	21.83	23.0
20	PIG BPSK	50	0	21.88	21.87	21.88	0.0
20	PIG BPSK	50	28	21.88	22.00	21.83	23.0
20	PIG BPSK	50	56	21.85	21.93	21.85	23.0
20	PIG BPSK	100	0	21.85	21.88	21.81	0.0
20	QPSK	1	1	22.01	22.00	22.00	0.0
20	QPSK	1	53	21.91	21.87	21.88	23.0
20	QPSK	1	104	21.86	21.93	21.85	23.0
20	QPSK	50	0	21.92	21.89	21.88	0.0
20	QPSK	50	28	22.00	22.03	21.95	23.0
20	QPSK	50	56	21.88	21.88	21.85	23.0
20	MSKAM	1	1	21.85	21.84	21.78	23.0
20	MSKAM	1	1	21.84	21.90	21.40	22.0
20	MSKAM	1	1	19.46	19.53	19.44	20.5
Channel							
15	QPSK	1	1	19.73	19.80	19.72	20.5
15	QPSK	1	1	23.00	23.00	23.00	0.0
Channel							
10	QPSK	1	1	21.80	21.80	21.82	23.0
Channel							
5	QPSK	1	1	19.73	19.80	19.72	20.5

n2_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	PIG BPSK	1	1	22.83	22.85	22.80	0.0
20	PIG BPSK	1	53	22.87	22.83	22.80	24.5
20	PIG BPSK	1	104	22.75	22.74	22.73	24.0
20	PIG BPSK	50	0	22.75	22.75	22.75	0.0
20	PIG BPSK	50	28	22.75	22.84	22.75	24.5
20	PIG BPSK	50	56	22.77	22.73	22.75	24.0
20	PIG BPSK	100	0	22.77	22.81	22.80	0.0
20	QPSK	1	1	22.90	22.90	22.90	0.0
20	QPSK	1	53	22.73	22.85	22.75	24.5
20	QPSK	1	104	22.87	22.83	22.74	23.5
20	QPSK	50	0	22.87	22.75	22.80	23.5
20	QPSK	50	28	22.75	22.85	22.75	24.5
20	QPSK	50	56	22.81	22.81	22.80	23.5
20	MSKAM	1	1	21.84	21.83	21.75	23.0
20	MSKAM	1	1	21.86	21.81	21.72	23.5
20	MSKAM	1	1	21.77	21.82	21.40	22.0
20	MSKAM	1	1	19.46	19.53	19.44	20.5
Channel							
15	QPSK	1	1	19.73	19.80	19.72	20.5
15	QPSK	1	1	22.90	22.93	22.91	23.5
Channel							
10	QPSK	1	1	22.74	22.87	22.72	24.5
Channel							
5	QPSK	1	1	19.73	19.80	19.72	20.5



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166500	Power Middle Ch. Freq. 167000	Power High Ch. Freq. 167500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PWQ BPSK	1	1	24.53	24.63	24.68			
20	PWQ BPSK	1	53	24.49	24.47	24.45	20.0	0.0	
20	PWQ BPSK	1	104	24.37	24.37	24.31			
20	PWQ BPSK	50	0	24.39	24.38	23.92	20.5	0.5	
20	PWQ BPSK	50	25	24.47	24.38	24.32	20.0	0.0	
20	PWQ BPSK	50	50	23.92	24.05	23.98	20.0	0.0	
20	PWQ BPSK	100	0	23.98	23.98	23.94	20.5	0.5	
20	QPSK	1	1	24.56	24.65	24.62			
20	QPSK	1	53	24.50	24.63	24.58	20.0	0.0	
20	QPSK	1	104	24.35	24.63	24.51			
20	QPSK	50	0	23.92	23.77	23.85	20.0	1.0	
20	QPSK	50	25	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	50	23.72	23.78	23.87	20.0	1.0	
20	QPSK	100	0	23.98	23.79	23.86	20.0	1.0	
20	16QAM	1	1	23.82	23.88	23.88	20.0	1.0	
20	16QAM	1	1	23.78	23.28	23.15	23.5	2.5	
20	256QAM	1	1	20.14	20.23	20.11	21.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	163.1	163.3	163.3	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	163.00	163.00	163.00	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.52	24.50	24.55	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	163.0	163.0	163.0	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.43	24.50	24.43	20.0	1.0	

n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166500	Power Middle Ch. Freq. 167000	Power High Ch. Freq. 167500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PWQ BPSK	1	1	24.53	24.63	24.68			
20	PWQ BPSK	1	50	24.40	24.47	24.45	20.0	0.0	
20	PWQ BPSK	1	104	24.37	24.37	24.31			
20	PWQ BPSK	50	0	23.98	24.08	23.92	20.5	0.5	
20	PWQ BPSK	50	25	24.47	24.38	24.32	20.0	0.0	
20	PWQ BPSK	50	50	23.92	24.05	23.98	20.0	0.0	
20	PWQ BPSK	100	0	23.98	23.98	23.94	20.5	0.5	
20	QPSK	1	1	24.56	24.65	24.62			
20	QPSK	1	53	24.50	24.63	24.58	20.0	0.0	
20	QPSK	1	104	24.35	24.63	24.51			
20	QPSK	50	0	23.92	23.77	23.85	20.0	1.0	
20	QPSK	50	25	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	50	23.70	23.78	23.87	20.0	1.0	
20	QPSK	100	0	23.98	23.79	23.86	20.0	1.0	
20	16QAM	1	1	23.82	23.88	23.88	20.0	1.0	
20	16QAM	1	1	22.78	22.28	22.15	23.5	2.5	
20	256QAM	1	1	20.14	20.23	20.11	21.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	163.1	163.3	163.3	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	163.00	163.00	163.00	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.52	24.50	24.55	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	163.0	163.0	163.0	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	24.43	24.50	24.43	20.0	1.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 166500	Power Middle Ch. Freq. 167000	Power High Ch. Freq. 167500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PWQ BPSK	1	1	23.78	23.88	23.88			
40	PWQ BPSK	1	108	23.70	23.92	23.80	20.0	0.0	
40	PWQ BPSK	1	214	23.74	23.85	23.78			
40	PWQ BPSK	108	0	23.97	23.92	23.70	24.5	0.5	
40	PWQ BPSK	108	54	23.72	23.80	23.71	20.0	0.0	
40	PWQ BPSK	108	108	23.74	23.90	23.74			
40	PWQ BPSK	216	0	23.18	23.33	23.18	24.5	0.5	
40	QPSK	1	1	23.80	23.92	23.80			
40	QPSK	1	108	23.74	23.83	23.78	20.0	0.0	
40	QPSK	1	214	23.66	23.90	23.80			
40	QPSK	108	0	23.99	23.95	23.88	24.0	1.0	
40	QPSK	108	54	23.71	23.83	23.80	20.0	0.0	
40	QPSK	108	108	23.68	23.15	23.68	24.0	1.0	
40	16QAM	1	1	23.88	23.93	23.88	20.0	1.0	
40	16QAM	1	1	21.41	21.90	21.44	22.5	2.5	
40	256QAM	1	1	19.45	19.97	19.44	20.5	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.13	23.90	23.90	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.00	23.90	23.90	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.72	23.70	23.82	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.10	23.90	23.90	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.03	23.94	23.94	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.04	23.90	23.90	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.10	23.10	20.0	0.0	





### n7\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 30400	Mid Ch. Freq. 30500	High Ch. Freq. 31000		
Channel								
40	PSSBPSK	1	1	22.78	22.83	22.85		
Frequency (MHz)								
40	PSSBPSK	1	108	22.79	22.82	22.79	24.0	0.0
40	PSSBPSK	1	214	22.75	22.83	22.82	24.0	0.0
40	PSSBPSK	108	0	22.82	22.85	22.79	24.0	0.0
40	PSSBPSK	108	54	22.75	22.85	22.82	24.0	0.0
40	PSSBPSK	108	108	22.80	22.79	22.71	24.0	0.0
40	PSSBPSK	216	0	22.72	22.88	22.78	24.0	0.0
40	QPSK	1	1	22.96	22.95	22.95		
40	QPSK	1	108	22.71	22.82	22.77	24.0	0.0
40	QPSK	1	214	22.86	22.87	22.84	24.0	0.0
40	QPSK	108	0	22.83	22.82	22.78	24.0	0.0
40	QPSK	108	54	22.73	22.83	22.83	24.0	0.0
40	QPSK	108	108	22.88	22.79	22.87	24.0	0.0
40	QPSK	216	0	22.75	22.88	22.80	24.0	0.0
40	MSKAM	1	1	22.32	22.88	22.40	24.0	0.0
40	MSKAM	1	1	21.41	21.98	21.44	22.5	1.5
40	MSKAM	1	1	19.45	19.57	19.44	20.5	3.5
Channel								
Frequency (MHz)								
16	QPSK	1	1	22.74	22.92	22.92		
Channel								
25	QPSK	1	1	22.92	22.96	22.92	Turn-up limit (dBm)	MPR (dB)
Channel								
20	QPSK	1	1	22.92	22.92	22.92	Turn-up limit (dBm)	MPR (dB)
Channel								
15	QPSK	1	1	22.92	22.92	22.92	Turn-up limit (dBm)	MPR (dB)
Channel								
10	QPSK	1	1	22.92	22.92	22.92	Turn-up limit (dBm)	MPR (dB)
Channel								
5	QPSK	1	1	22.92	22.88	22.78	24.0	0.0

### n12\_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid Ch. Freq. 141500	High Ch. Freq. 141500		
Channel								
10	PSSBPSK	1	1	24.48	24.53	24.50		
Frequency (MHz)								
10	PSSBPSK	1	40	24.53	24.41	24.40	26.0	0.0
10	PSSBPSK	1	77	24.38	24.47	24.45	26.0	0.0
10	PSSBPSK	36	0	23.98	23.91	23.95	25.5	0.5
10	PSSBPSK	36	36	24.42	24.43	24.40	26.0	0.0
10	PSSBPSK	36	48	23.91	23.93	23.95	25.5	0.5
10	PSSBPSK	72	0	23.84	23.93	23.90	25.5	0.5
10	QPSK	1	1	24.50	24.50	24.50		
10	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
10	QPSK	1	77	23.88	24.50	24.34	26.0	1.0
10	QPSK	36	0	23.48	23.53	23.37	25.0	1.0
10	QPSK	36	36	24.47	24.52	24.36	26.0	0.0
10	QPSK	36	48	23.48	23.58	23.40	25.0	1.0
10	QPSK	72	0	23.50	23.58	23.53	25.0	1.0
10	MSKAM	1	1	22.42	22.55	22.49	25.0	1.0
10	MSKAM	1	1	22.00	22.13	21.97	23.5	2.5
10	MSKAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
10	QPSK	1	1	24.50	24.50	24.50	Turn-up limit (dBm)	MPR (dB)
Channel								
5	QPSK	1	1	24.42	24.42	24.36	26.0	0.0

### n12\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid Ch. Freq. 141500	High Ch. Freq. 141500		
Channel								
15	PSSBPSK	1	1	24.48	24.53	24.50		
Frequency (MHz)								
15	PSSBPSK	1	40	24.53	24.41	24.40	26.0	0.0
15	PSSBPSK	1	77	24.38	24.47	24.45	26.0	0.0
15	PSSBPSK	36	0	23.98	23.91	23.95	25.5	0.5
15	PSSBPSK	36	36	24.42	24.43	24.40	26.0	0.0
15	PSSBPSK	36	48	23.91	23.93	23.95	25.5	0.5
15	PSSBPSK	72	0	23.84	23.93	23.90	25.5	0.5
15	QPSK	1	1	24.50	24.50	24.50		
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	23.88	24.50	24.34	26.0	1.0
15	QPSK	36	0	23.48	23.53	23.37	25.0	1.0
15	QPSK	36	36	24.47	24.52	24.36	26.0	0.0
15	QPSK	36	48	23.48	23.58	23.40	25.0	1.0
15	QPSK	72	0	23.50	23.58	23.53	25.0	1.0
15	MSKAM	1	1	22.42	22.55	22.49	25.0	1.0
15	MSKAM	1	1	22.00	22.13	21.97	23.5	2.5
15	MSKAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
10	QPSK	1	1	24.50	24.50	24.50	Turn-up limit (dBm)	MPR (dB)
Channel								
5	QPSK	1	1	24.42	24.42	24.36	26.0	0.0



### n25\_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq 374000	Media Ch. Freq 376000	High Ch. Freq 378000		
Channel								
40	Pilot BPSK	1	1	24.30	24.45	24.41	-	-
Frequency (MHz)								
40	Pilot BPSK	1	108	22.27	22.35	22.32	23.0	0.0
40	Pilot BPSK	1	214	22.24	22.32	22.29	-	-
40	Pilot BPSK	108	0	22.25	22.35	22.30	23.5	0.5
40	Pilot BPSK	108	54	22.25	22.35	22.30	23.0	0.0
40	Pilot BPSK	108	108	22.25	22.35	22.30	24.5	0.5
40	QPSK	1	1	22.33	22.33	22.31	-	-
40	QPSK	1	1	22.43	22.43	22.40	-	-
40	QPSK	1	108	22.31	22.37	22.31	23.0	0.0
40	QPSK	1	214	22.28	22.36	22.32	-	-
40	QPSK	108	0	22.33	22.33	22.30	24.0	1.0
40	QPSK	108	54	22.33	22.33	22.30	23.0	0.0
40	QPSK	108	108	22.22	22.34	22.25	24.0	1.0
40	QPSK	216	0	22.33	22.38	22.32	24.0	1.0
40	MCSM	1	1	22.26	22.32	22.27	22.5	2.5
40	MCSM	1	1	22.35	22.32	22.32	-	-
40	MCSM	1	1	19.85	19.72	19.67	20.5	4.5
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	22.32	22.41	22.42	23.0	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	24.30	24.40	24.35	25.0	0.0
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.33	22.40	22.35	23.0	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.30	24.40	24.30	25.0	0.0
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.33	22.41	22.35	23.0	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	24.30	24.40	24.30	25.0	0.0

### n25\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq 374000	Media Ch. Freq 376000	High Ch. Freq 378000		
Channel								
40	Pilot BPSK	1	1	22.43	22.53	22.45	-	-
Frequency (MHz)								
40	Pilot BPSK	1	108	22.22	22.40	22.30	23.0	0.0
40	Pilot BPSK	1	214	22.24	22.44	22.24	-	-
40	Pilot BPSK	108	0	22.26	22.44	22.26	23.0	0.0
40	Pilot BPSK	108	54	22.41	22.50	22.43	23.0	0.0
40	Pilot BPSK	108	108	22.26	22.44	22.21	23.0	0.0
40	Pilot BPSK	216	0	22.28	22.48	22.40	23.0	0.0
40	QPSK	1	1	22.45	22.50	22.45	-	-
40	QPSK	1	108	22.22	22.39	22.22	23.0	0.0
40	QPSK	1	214	22.26	22.45	22.24	-	-
40	QPSK	108	0	22.28	22.39	22.25	23.0	0.0
40	QPSK	108	54	22.43	22.53	22.45	23.0	0.0
40	QPSK	108	108	22.28	22.37	22.27	23.0	0.0
40	QPSK	216	0	22.40	22.50	22.45	23.0	0.0
40	MCSM	1	1	22.25	22.39	22.29	23.0	0.0
40	MCSM	1	1	19.85	19.72	19.72	22.5	4.5
40	MCSM	1	1	19.89	19.78	19.67	20.5	4.5
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.22	22.41	22.42	23.0	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.30	22.43	22.41	23.0	0.0
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.22	22.41	22.33	23.0	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.30	22.41	22.33	23.0	0.0
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.40	22.50	22.33	23.0	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.31	22.44	22.32	23.0	0.0

### n25\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq 374000	Media Ch. Freq 376000	High Ch. Freq 378000		
Channel								
40	Pilot BPSK	1	1	22.51	22.50	22.50	-	-
Frequency (MHz)								
40	Pilot BPSK	1	108	22.76	22.90	22.81	24.5	0.0
40	Pilot BPSK	1	214	22.83	22.85	22.83	-	-
40	Pilot BPSK	108	0	22.75	22.94	22.82	24.0	0.5
40	Pilot BPSK	108	54	22.82	22.81	22.82	24.5	0.0
40	Pilot BPSK	108	108	22.27	22.45	22.30	24.0	0.5
40	Pilot BPSK	216	0	22.27	22.45	22.35	-	-
40	QPSK	1	1	22.45	22.50	22.45	-	-
40	QPSK	1	108	22.75	22.85	22.73	24.5	0.0
40	QPSK	1	214	22.80	22.83	22.82	-	-
40	QPSK	108	0	22.88	22.81	22.78	23.5	1.0
40	QPSK	108	54	22.75	22.85	22.74	24.5	0.0
40	QPSK	108	108	22.83	22.73	22.87	-	-
40	MCSM	1	1	22.82	22.83	22.78	23.5	1.0
40	MCSM	1	1	22.71	22.81	22.75	23.5	1.0
40	MCSM	1	1	22.51	22.30	22.30	22.0	2.0
40	MCSM	1	1	18.24	18.33	18.20	20.0	6.5
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.52	22.51	22.50	23.5	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.84	22.87	22.80	24.5	0.0
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.27	22.54	22.50	23.5	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.80	22.80	22.80	24.5	0.0
Channel								
Frequency (MHz)				1990	1992.5	1995	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.51	22.50	22.51	23.5	0.0
Channel								
Frequency (MHz)				272000	274000	282000	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.82	22.80	22.81	24.5	0.0



n26_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq. 164950	Mid Ch. Freq. 165000	High Ch. Freq. 165050	
Channel							
20	PSSBPSK	1	1	24.45	24.45	24.45	0.0
Frequency (MHz)							
				24.4	24.5	24.5	
20	PSSBPSK	1	53	24.44	24.44	24.47	20.0
20	PSSBPSK	1	104	24.43	24.43	24.39	0.0
20	PSSBPSK	50	0	23.95	24.05	23.97	25.5
20	PSSBPSK	50	25	24.45	24.52	24.48	20.0
20	PSSBPSK	50	50	23.95	24.05	23.97	25.5
20	PSSBPSK	100	0	24.05	24.05	24.02	0.0
20	QPSK	1	1	24.05	24.05	24.05	0.0
20	QPSK	1	53	24.07	24.03	24.07	20.0
20	QPSK	1	104	24.01	24.09	24.04	0.0
20	QPSK	50	0	23.70	23.78	23.70	25.0
20	QPSK	50	25	24.45	24.56	24.51	20.0
20	QPSK	50	50	23.70	23.78	23.69	25.0
20	QPSK	100	0	23.69	23.78	23.67	25.0
20	MSKAM	1	1	23.55	23.55	23.55	1.0
20	MSKAM	1	1	23.55	23.76	23.55	2.5
20	MSKAM	1	1	20.10	20.25	20.21	4.5
Channel							
				24.0	24.0	24.0	
Frequency (MHz)							
15	QPSK	1	1	24.52	24.54	24.54	0.0
Channel							
				24.5	24.5	24.5	
Frequency (MHz)							
10	QPSK	1	1	24.47	24.50	24.44	0.0
Channel							
				24.5	24.5	24.5	
Frequency (MHz)							
5	QPSK	1	1	24.41	24.51	24.45	0.0

n26_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq. 164950	Mid Ch. Freq. 165000	High Ch. Freq. 165050	
Channel							
20	PSSBPSK	1	1	24.40	24.45	24.45	0.0
Frequency (MHz)							
				24.4	24.5	24.5	
20	PSSBPSK	1	50	24.04	24.00	24.07	20.0
20	PSSBPSK	1	104	24.49	24.49	24.39	0.0
20	PSSBPSK	50	0	23.99	24.05	23.91	25.5
20	PSSBPSK	50	25	24.49	24.52	24.40	20.0
20	PSSBPSK	50	50	23.99	24.05	23.91	25.5
20	PSSBPSK	100	0	24.05	24.08	23.92	0.0
20	QPSK	1	1	24.05	24.05	24.05	0.0
20	QPSK	1	50	24.07	24.03	24.07	20.0
20	QPSK	1	104	24.01	24.09	24.04	0.0
20	QPSK	50	0	23.70	23.78	23.70	25.0
20	QPSK	50	25	24.45	24.56	24.51	20.0
20	QPSK	50	50	23.70	23.78	23.69	25.0
20	QPSK	100	0	23.69	23.78	23.61	25.0
20	MSKAM	1	1	23.55	23.55	23.55	1.0
20	MSKAM	1	1	22.00	22.20	22.10	2.5
20	MSKAM	1	1	20.10	20.20	20.21	4.5
Channel							
				24.0	24.0	24.0	
Frequency (MHz)							
15	QPSK	1	1	24.50	24.54	24.42	0.0
Channel							
				24.5	24.5	24.5	
Frequency (MHz)							
10	QPSK	1	1	24.47	24.50	24.44	0.0
Channel							
				24.5	24.5	24.5	
Frequency (MHz)							
5	QPSK	1	1	24.41	24.51	24.45	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. Freq. 164950	Mid Ch. Freq. 165000	High Ch. Freq. 165050	
Channel							
20	PSSBPSK	1	1				0.0
Frequency (MHz)							
				18.72			
10	PSSBPSK	1	26				18.0
10	PSSBPSK	1	50				0.0
10	PSSBPSK	25	0				18.0
10	PSSBPSK	25	14				0.0
10	PSSBPSK	25	27				18.0
10	PSSBPSK	50	0				0.0
10	QPSK	1	1				0.0
10	QPSK	1	26				18.0
10	QPSK	1	50				0.0
10	QPSK	25	0				18.0
10	QPSK	25	14				0.0
10	QPSK	25	27				18.0
10	QPSK	50	0				0.0
10	MSKAM	1	1				0.0
10	MSKAM	1	1				0.0
10	MSKAM	1	1				0.0
Channel							
				20.0	20.0	20.0	
Frequency (MHz)							
5	QPSK	1	1	24.54	24.54	24.51	0.0



n30_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	MPR (dB)
Channel							
Frequency (MHz)							
10	P102 BPSK	1	1	19.73	19.73	19.73	0.0
10	P102 BPSK	1	26	19.67	19.67	19.67	0.0
10	P102 BPSK	1	50	19.65	19.65	19.65	0.0
10	P102 BPSK	25	0	19.67	19.67	19.67	0.0
10	P102 BPSK	25	14	19.67	19.67	19.67	0.0
10	P102 BPSK	25	27	19.66	19.66	19.66	0.0
10	P102 BPSK	50	0	19.66	19.66	19.66	0.0
10	QPSK	1	1	19.75	19.75	19.75	0.0
10	QPSK	1	26	19.71	19.71	19.71	0.0
10	QPSK	1	50	19.72	19.72	19.72	0.0
10	QPSK	25	0	19.72	19.72	19.72	0.0
10	QPSK	25	14	19.72	19.72	19.72	0.0
10	QPSK	25	27	19.72	19.72	19.72	0.0
10	QPSK	50	0	19.71	19.71	19.71	0.0
10	16QAM	1	1	19.64	19.64	19.64	0.0
10	16QAM	1	1	19.66	19.66	19.66	0.0
10	256QAM	1	1	19.67	19.67	19.67	0.0
Channel							
Frequency (MHz)							
1	QPSK	1	1	19.74	19.74	19.74	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	MPR (dB)
Channel							
Frequency (MHz)							
10	P102 BPSK	1	1	22.78	22.78	22.78	0.0
10	P102 BPSK	1	26	22.69	22.69	22.69	0.0
10	P102 BPSK	1	50	22.70	22.70	22.70	0.0
10	P102 BPSK	25	0	22.71	22.71	22.71	0.0
10	P102 BPSK	25	14	22.68	22.68	22.68	0.0
10	P102 BPSK	25	27	22.68	22.68	22.68	0.0
10	P102 BPSK	50	0	22.69	22.69	22.69	0.0
10	QPSK	1	1	22.80	22.80	22.80	0.0
10	QPSK	1	26	22.73	22.73	22.73	0.0
10	QPSK	1	50	22.72	22.72	22.72	0.0
10	QPSK	25	0	22.68	22.68	22.68	0.0
10	QPSK	25	14	22.68	22.68	22.68	0.0
10	QPSK	25	27	22.68	22.68	22.68	0.0
10	QPSK	50	0	22.69	22.69	22.69	0.0
10	16QAM	1	1	22.61	22.61	22.61	0.0
10	16QAM	1	1	22.62	22.62	22.62	0.0
10	256QAM	1	1	22.63	22.63	22.63	0.0
Channel							
Frequency (MHz)							
1	QPSK	1	1	22.83	22.83	22.83	0.0

n66_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Middle Ch. / Power	Power High Ch. / Power	MPR (dB)
Channel							
Frequency (MHz)							
40	P102 BPSK	1	1	24.42	24.42	24.42	0.0
40	P102 BPSK	1	108	24.35	24.35	24.35	0.0
40	P102 BPSK	1	214	24.35	24.35	24.35	0.0
40	P102 BPSK	108	0	24.37	24.37	24.37	0.0
40	P102 BPSK	108	54	24.33	24.33	24.33	0.0
40	P102 BPSK	108	108	24.30	24.30	24.30	0.0
40	P102 BPSK	216	0	24.30	24.30	24.30	0.0
40	QPSK	1	1	24.45	24.45	24.45	0.0
40	QPSK	1	108	24.31	24.31	24.31	0.0
40	QPSK	1	214	24.31	24.31	24.31	0.0
40	QPSK	108	0	24.32	24.32	24.32	0.0
40	QPSK	108	54	24.31	24.31	24.31	0.0
40	QPSK	108	108	24.28	24.28	24.28	0.0
40	QPSK	216	0	24.29	24.29	24.29	0.0
40	16QAM	1	1	24.25	24.25	24.25	0.0
40	16QAM	1	1	24.26	24.26	24.26	0.0
40	16QAM	1	1	24.26	24.26	24.26	0.0
40	256QAM	1	1	24.27	24.27	24.27	0.0
40	256QAM	1	1	24.21	24.21	24.21	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.50	24.50	24.50	0.0
25	QPSK	1	1	24.29	24.29	24.29	0.0
25	QPSK	1	1	24.29	24.29	24.29	0.0
20	QPSK	1	1	24.30	24.30	24.30	0.0
15	QPSK	1	1	24.29	24.29	24.29	0.0
10	QPSK	1	1	24.30	24.30	24.30	0.0
5	QPSK	1	1	24.24	24.24	24.24	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq 34500	Midle Ch. Freq 34500	High Ch. Freq 35500		
Channel								
Frequency (MHz)								
40	P12 QPSK	1	1	21.95	22.02	22.00		
40	P12 QPSK	1	104	21.95	21.99	21.97	22.5	0.0
40	P12 QPSK	1	214	21.75	21.84	21.81	22.5	0.0
40	P12 QPSK	104	0	21.75	21.95	21.82	22.5	0.0
40	P12 QPSK	104	54	21.55	22.05	21.88	22.5	0.0
40	P12 QPSK	104	104	21.75	21.95	21.85	22.5	0.0
40	P12 QPSK	214	0	21.55	21.85	21.85	22.5	0.0
40	QPSK	1	1	21.95	22.05	22.01		
40	QPSK	1	104	21.85	21.95	21.92	22.5	0.0
40	QPSK	1	214	21.95	21.95	21.95	22.5	0.0
40	QPSK	104	0	21.84	21.95	21.92	22.5	0.0
40	QPSK	104	54	21.95	22.05	21.95	22.5	0.0
40	QPSK	104	104	21.84	21.95	21.83	22.5	0.0
40	QPSK	214	0	21.95	22.05	22.00	22.5	0.0
40	16QAM	1	1	21.85	21.85	21.85	22.5	0.0
40	16QAM	1	1	21.95	21.95	21.92	22.5	0.0
40	256QAM	1	1	19.81	19.85	19.87	20.5	2.0
Channel								
Frequency (MHz)								
74	QPSK	1	1	17.25	17.43	17.43	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.90	21.90	21.97	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.50	17.43	17.37	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.90	22.00	21.95	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.50	17.43	17.37	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	QPSK	1	1	21.93	21.93	21.95	22.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq 34500	Midle Ch. Freq 34500	High Ch. Freq 35500		
Channel								
Frequency (MHz)								
40	P12 QPSK	1	1	22.88	22.82	22.83		
40	P12 QPSK	1	104	22.75	22.85	22.78	24.5	0.0
40	P12 QPSK	1	214	22.82	22.88	22.73	24.5	0.0
40	P12 QPSK	104	0	22.75	22.85	22.75	24.5	0.0
40	P12 QPSK	104	54	22.78	22.83	22.76	24.5	0.0
40	P12 QPSK	104	104	22.75	22.85	22.78	24.5	0.0
40	P12 QPSK	214	0	22.78	22.83	22.74	24.5	0.0
40	QPSK	1	1	22.82	22.82	22.82		
40	QPSK	1	104	22.82	22.88	22.83	24.5	0.0
40	QPSK	1	214	22.84	22.92	22.75	24.5	0.0
40	QPSK	104	0	21.70	21.82	21.69	23.0	1.0
40	QPSK	104	54	22.74	22.80	22.75	24.5	0.0
40	QPSK	104	104	21.88	21.73	21.67	23.5	1.0
40	QPSK	214	0	21.70	21.80	21.64	23.5	1.0
40	16QAM	1	1	21.78	21.80	21.78	23.0	1.0
40	64QAM	1	1	20.31	20.42	20.37	22.0	2.5
40	256QAM	1	1	18.37	18.35	18.20	20.0	4.2
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.25	17.43	17.43	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.83	22.83	22.83	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.25	17.43	17.43	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.81	22.84	22.83	24.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.50	17.43	17.43	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.89	22.84	22.85	24.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq 18100	Midle Ch. Freq 18100	High Ch. Freq 19100		
Channel								
Frequency (MHz)								
20	P12 QPSK	1	1	24.43	24.40	24.55		
20	P12 QPSK	1	30	23.57	24.40	24.40	24.0	0.0
20	P12 QPSK	1	104	24.33	24.52	24.47	24.0	0.0
20	P12 QPSK	30	0	23.70	24.50	24.51	23.5	0.5
20	P12 QPSK	30	24	24.35	24.54	24.44	23.0	0.0
20	P12 QPSK	30	54	23.70	24.57	24.51	23.5	0.5
20	P12 QPSK	100	0	23.82	24.05	23.88	23.5	0.5
20	QPSK	1	1	24.40	24.53	24.50		
20	QPSK	1	30	23.48	24.53	24.40	24.0	0.0
20	QPSK	1	104	24.40	24.50	24.51		
20	QPSK	30	0	23.49	23.59	23.43	23.0	1.0
20	QPSK	30	24	24.40	24.54	24.50	24.0	0.0
20	QPSK	30	54	23.42	23.58	23.49	23.0	1.0
20	QPSK	100	0	23.42	23.55	23.50	23.0	1.0
20	16QAM	1	1	21.64	21.80	21.70	21.5	2.5
20	16QAM	1	1	19.73	19.83	19.72	21.5	0.5
Channel								
Frequency (MHz)								
10	P12 QPSK	1	1	18.61	18.61	18.61	Turn-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
10	P12 QPSK	1	1	24.43	24.50	24.42	24.0	0.0
Channel								
Frequency (MHz)								
10	P12 QPSK	1	1	24.43	24.50	24.51	24.0	0.0
Channel								
Frequency (MHz)								
5	P12 QPSK	1	1	18.61	18.61	18.61	Turn-up limit (dBm)	MPR



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Totalsq.lev (dBm)	APRS (dB)
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSSA	1	1	24.43	24.43	24.43	24.4	0.0
10	PCF-SFSSA	1	50	24.37	24.40	24.40	24.0	0.0
10	PCF-SFSSA	1	104	24.33	24.32	24.27	24.0	0.0
10	PCF-SFSSA	50	0	24.39	24.40	24.35	24.3	0.0
10	PCF-SFSSA	50	26	24.35	24.34	24.24	24.0	0.0
10	PCF-SFSSA	50	50	24.31	24.27	24.25	24.0	0.0
10	PCF-SFSSA	100	0	24.32	24.25	24.28	24.0	0.0
10	QPSK	1	1	24.40	24.43	24.40	24.4	0.0
10	QPSK	1	50	24.40	24.43	24.40	24.0	0.0
10	QPSK	50	0	24.40	24.40	24.41	24.0	0.0
10	QPSK	50	104	24.40	24.40	24.41	24.0	0.0
10	QPSK	50	50	24.40	24.39	24.33	24.0	1.0
10	QPSK	50	26	24.40	24.34	24.28	24.0	1.0
10	QPSK	50	50	24.42	24.38	24.29	24.0	1.0
10	QPSK	100	0	24.42	24.35	24.28	24.0	1.0
10	TDMA	1	1	24.38	24.32	24.38	24.0	1.0
10	TDMA	1	1	24.34	24.25	24.25	24.0	1.0
10	TDMA	1	1	19.33	19.33	19.32	21.0	4.0
Channel								
Frequency (MHz)				13.7000	13.7000	13.7000		
10	PCF-SFSSA	1	1	24.43	24.43	24.42	24.0	1.0
Channel								
Frequency (MHz)				13.7000	13.7000	13.7000		
10	PCF-SFSSA	1	1	24.43	24.43	24.41	24.0	0.0
Channel								
Frequency (MHz)				13.7000	13.7000	13.7000		
10	PCF-SFSSA	1	1	24.43	24.43	24.41	24.0	1.0



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Table with 10 columns: BW (MHz), Modulation, RB Size, Z.BIT, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different RB sizes.

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Table with 10 columns: BW (MHz), Modulation, RB Size, Z.BIT, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different RB sizes.

n41\_Ant 1

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like Pi2 BPSK, QPSK, and 16QAM across different RB sizes and offsets.



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dB)	MPR (dB)
				Low Ch./Freq.	Mid Ch./Freq.	High Ch./Freq.		
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	23.58	23.85	23.81	25.0	0.0
100	PQ2 BPSK	1	137	23.50	23.79	23.74	25.0	0.0
100	PQ2 BPSK	1	271	23.49	23.69	23.76	25.0	0.0
100	PQ2 BPSK	155	69	23.58	23.83	23.80	25.0	0.0
100	PQ2 BPSK	156	69	23.44	23.73	23.68	25.0	0.0
100	PQ2 BPSK	219	0	23.53	23.80	23.75	25.0	0.0
100	QPSK	1	1	23.62	23.89	23.85	25.0	0.0
100	QPSK	155	69	23.45	23.77	23.74	25.0	0.0
100	QPSK	156	69	23.89	23.85	23.83	25.0	0.0
100	QPSK	219	0	23.58	23.82	23.80	25.0	0.0
100	TSDM	1	1	23.61	23.81	23.76	25.0	0.0
100	44QAM	1	1	23.66	23.76	23.76	25.0	0.0
100	25QAM	1	1	21.80	21.78	21.81	23.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.43	23.77	23.76	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.56	23.76	23.69	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.51	23.73	23.70	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.54	23.73	23.70	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.53	23.77	23.73	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.50	23.74	23.80	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.50	23.73	23.70	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.48	23.75	23.71	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.46	23.77	23.70	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.54	23.80	23.80	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.48	23.79	23.76	25.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dB)	MPR (dB)
				Low Ch./Freq.	Mid Ch./Freq.	High Ch./Freq.		
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	21.93	22.08	22.05	23.5	0.0
100	PQ2 BPSK	1	137	21.95	21.98	21.91	23.5	0.0
100	PQ2 BPSK	1	271	21.82	21.97	21.93	23.5	0.0
100	PQ2 BPSK	155	69	21.78	21.90	21.85	23.5	0.0
100	PQ2 BPSK	156	69	21.90	22.05	22.01	23.5	0.0
100	PQ2 BPSK	219	0	21.77	21.95	21.95	23.5	0.0
100	QPSK	1	1	21.85	22.02	21.98	23.5	0.0
100	QPSK	155	69	21.89	22.02	21.93	23.5	0.0
100	QPSK	156	69	21.92	22.07	22.03	23.5	0.0
100	QPSK	219	0	21.89	22.01	21.94	23.5	0.0
100	QPSK	270	0	21.90	22.03	22.00	23.5	0.0
100	TSDM	1	1	21.88	21.95	21.92	23.5	0.0
100	44QAM	1	1	21.83	21.90	21.86	23.5	0.0
100	25QAM	1	1	21.86	21.92	21.85	23.0	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.90	22.04	22.03	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	21.94	21.97	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.79	22.04	21.96	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.90	22.02	22.00	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.87	22.03	21.94	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.88	21.99	22.01	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.80	21.95	21.93	23.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	21.85	21.95	21.97	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.85	21.94	21.94	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.93	22.02	22.01	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.79	22.00	21.92	23.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dB)	MPR (dB)
				Low Ch./Freq.	Mid Ch./Freq.	High Ch./Freq.		
Channel								
Frequency (MHz)								
100	PQ2 BPSK	1	1	24.53	24.80	24.83	26.0	0.0
100	PQ2 BPSK	1	137	24.61	24.76	24.76	26.0	0.0
100	PQ2 BPSK	1	271	24.40	24.78	24.69	26.0	0.0
100	PQ2 BPSK	155	69	24.59	24.85	24.85	26.0	0.0
100	PQ2 BPSK	156	69	24.50	24.63	24.80	26.0	0.0
100	PQ2 BPSK	219	0	24.56	24.76	24.76	26.0	0.0
100	PQ2 BPSK	270	0	24.63	24.71	24.78	26.0	0.0
100	QPSK	1	1	24.56	24.88	24.85	26.0	0.0
100	QPSK	155	69	24.60	24.76	24.76	26.0	0.0
100	QPSK	156	69	24.52	24.85	24.81	26.0	0.0
100	QPSK	219	0	24.55	24.82	24.76	26.0	0.0
100	QPSK	270	0	24.59	24.66	24.78	26.0	0.0
100	TSDM	1	1	24.44	24.82	24.75	26.0	0.0
100	44QAM	1	1	23.56	23.77	23.78	25.0	0.0
100	25QAM	1	1	21.60	21.78	21.81	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.63	24.79	24.79	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.47	24.73	24.69	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.46	24.72	24.72	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.50	24.75	24.75	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.41	24.70	24.70	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.50	24.74	24.73	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.50	24.73	24.70	26.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	24.43	24.71	24.70	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.47	24.76	24.70	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.43	24.70	24.73	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.75	24.70	26.0	0.0







n41_HPUE_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	28.12	28.24	28.10			
100	P12 BPSK	1	137	28.00	28.24	28.03	27.5	0.0	
100	P12 BPSK	1	271	28.27	28.38	28.25			
100	P12 BPSK	155	9	28.27	28.37	28.34	27.5	0.5	
100	P12 BPSK	155	69	28.13	28.18	28.08	27.5	0.0	
100	P12 BPSK	155	138	28.12	28.18	28.08	27.0	0.5	
100	P12 BPSK	155	1	28.00	28.00	28.00			
100	QPSK	1	137	28.10	28.38	28.33	27.5	0.0	
100	QPSK	1	271	28.21	28.29	28.11			
100	QPSK	155	9	28.27	28.29	28.34	28.5	1.0	
100	QPSK	155	69	28.04	28.09	28.08	27.5	0.0	
100	QPSK	155	138	28.10	28.20	28.07	26.5	1.0	
100	QPSK	155	0	28.00	28.00	28.00			
100	TDMA	1	1	28.00	28.16	28.05	27.5	0.0	
100	TDMA	1	1	28.00	28.07	28.07	28.5	0.5	
100	TDMA	1	1	28.00	28.07	28.07	28.5	0.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.07	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.07	28.07	27.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.00	28.16	28.03	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.09	28.08	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.04	28.11	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	28.00	28.10	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.10	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	28.00	28.17	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.00	28.08	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	28.00	28.10	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.00	28.10	28.00	27.5	0.0	

n48_Part96_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.36	22.45	22.37	23.5	0.0	
40	P12 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	46	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.14	22.50	22.50			
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	46	22.16	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.15	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	TDMA	1	1	20.05	20.13	20.05	23.5	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

n48_Part96_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.36	22.45	22.37	23.5	0.0	
40	P12 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	46	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.14	22.50	22.50			
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	46	22.16	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.15	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	TDMA	1	1	20.05	20.13	20.05	23.5	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	



n48_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit	MPR	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.50	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.48	22.54	22.43			
40	PB2 BPSK	50	8	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	PB2 BPSK	50	48	22.38	22.48	22.39	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.50	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	58	22.28	22.38	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	8	22.18	22.24	22.20	23.5	0.0	
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	48	22.16	22.17	22.20	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.16	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83800	84160	84520	Tune-up limit	MPR	
Frequency (MHz)				3555.00	3624.99	3694.98	(dBm)	(dB)	
30	QPSK	1	1	22.29	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit	MPR	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83788	84166	84616	Tune-up limit	MPR	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

n48_Part96_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				83800	84160	84520	Tune-up limit	MPR	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.50	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.48	22.54	22.43			
40	PB2 BPSK	50	8	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	PB2 BPSK	50	48	22.38	22.48	22.39	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.50	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	58	22.28	22.38	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	8	22.18	22.24	22.20	23.5	0.0	
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	48	22.16	22.17	22.20	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.16	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel				83800	84160	84520	Tune-up limit	MPR	
Frequency (MHz)				3555.00	3624.99	3694.98	(dBm)	(dB)	
30	QPSK	1	1	22.29	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83734	84166	84600	Tune-up limit	MPR	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)				83788	84166	84616	Tune-up limit	MPR	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)				3555	3624.99	3694.98	(dBm)	(dB)	
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	



### Par270 n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.82	20.03	20.11		
100	PI2 BPSK	1	137	19.83	20.03	20.02	21.0	0.0
100	PI2 BPSK	1	271	19.73	20.06	19.98		
100	PI2 BPSK	135	9	19.72	20.03	19.93	21.0	0.0
100	PI2 BPSK	135	89	19.82	20.11	20.08	21.0	0.0
100	PI2 BPSK	135	138	19.72	20.03	19.97	21.0	0.0
100	PI2 BPSK	270	0	19.78	20.08	20.03		
100	QPSK	1	1	19.82	20.15	20.11		
100	QPSK	1	137	19.72	20.03	19.98	21.0	0.0
100	QPSK	1	271	19.73	20.05	19.98		
100	QPSK	135	9	19.78	20.15	20.04	21.0	0.0
100	QPSK	135	89	19.82	20.11	20.08		
100	QPSK	135	138	19.82	19.99	19.84		
100	QPSK	270	0	19.82	20.07	20.04	21.0	0.0
100	HQAM	1	1	19.82	20.07	19.95	21.0	0.0
100	HQAM	1	137	19.82	20.05	19.98	21.0	0.0
100	HQAM	1	271	19.82	19.99	20.04		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.82	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	20.09	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.74	20.10	20.06	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.73	20.11	20.04	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.72	20.15	20.03	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	20.07	19.99	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.73	20.09	19.94	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.73	20.10	20.02	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.72	20.15	20.03	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.78	20.07	19.99	21.0	0.0

### Par270 n77 HPUE\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.48	22.63	22.76		
100	PI2 BPSK	1	137	22.45	22.67	22.68		
100	PI2 BPSK	135	9	22.50	22.76	22.72	23.5	0.0
100	PI2 BPSK	135	89	22.50	22.74	22.67		
100	PI2 BPSK	135	138	22.47	22.72	22.66		
100	PI2 BPSK	270	0	22.53	22.78	22.73		
100	QPSK	1	1	22.49	22.80	22.80		
100	QPSK	1	137	22.49	22.73	22.69	23.5	0.0
100	QPSK	1	271	22.45	22.80	22.75		
100	QPSK	135	9	22.43	22.72	22.62	23.5	0.0
100	QPSK	135	89	22.54	22.65	22.76		
100	QPSK	135	138	22.47	22.72	22.68		
100	QPSK	270	0	22.54	22.66	22.75		
100	HQAM	1	1	22.47	22.78	22.76	23.5	0.0
100	HQAM	1	137	22.53	22.79	22.65	23.5	0.0
100	HQAM	1	271	22.48	22.62	22.75		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.46	22.68	22.73	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.51	22.79	22.72	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.53	22.72	22.67	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.52	22.75	22.70	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.44	22.68	22.69	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.77	22.68	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.49	22.78	22.73	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.51	22.76	22.73	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.47	22.68	22.66	23.5	0.0

### Par270 n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.82	20.03	20.11		
100	PI2 BPSK	1	137	19.83	20.03	20.02	21.0	0.0
100	PI2 BPSK	1	271	19.73	20.06	19.98		
100	PI2 BPSK	135	9	19.72	20.03	19.93	21.0	0.0
100	PI2 BPSK	135	89	19.82	20.11	20.08	21.0	0.0
100	PI2 BPSK	135	138	19.72	20.03	19.97	21.0	0.0
100	PI2 BPSK	270	0	19.78	20.08	20.03		
100	QPSK	1	1	19.82	20.15	20.11		
100	QPSK	1	137	19.72	20.03	19.98	21.0	0.0
100	QPSK	1	271	19.73	20.05	19.98		
100	QPSK	135	9	19.78	20.15	20.04	21.0	0.0
100	QPSK	135	89	19.82	20.11	20.08		
100	QPSK	135	138	19.82	19.99	19.84		
100	QPSK	270	0	19.82	20.07	20.04	21.0	0.0
100	HQAM	1	1	19.82	20.07	19.95	21.0	0.0
100	HQAM	1	137	19.82	20.05	19.98	21.0	0.0
100	HQAM	1	271	19.82	19.99	20.04		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.82	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	20.09	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.74	20.10	20.06	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.73	20.11	20.04	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.72	20.15	20.03	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	20.07	19.99	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.73	20.09	19.94	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.73	20.10	20.02	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.72	20.15	20.03	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.78	20.07	19.99	21.0	0.0









Par270 n77\_Ant 10

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi2 BPSK, QPSK, and HQAM across different RB sizes and offsets.

Par270 n77 HPUE\_Ant 10

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi2 BPSK, QPSK, and HQAM across different RB sizes and offsets.

Par270 n77\_Ant 10

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Mid Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Rows include various modulation types like Pi2 BPSK, QPSK, and HQAM across different RB sizes and offsets.





Par27Q n77 HPUE\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Med. Ch. / Freq	Power Hgh. Ch. / Freq	Tune-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 QPSK	1	1	26.22	26.22			
100	PL2 QPSK	1	137	26.23	26.23		27.5	0.0
100	PL2 QPSK	1	271	26.26	26.26			
100	PL2 QPSK	135	6	26.04	26.04		27.5	0.0
100	PL2 QPSK	135	69	26.21	26.21		27.5	0.0
100	PL2 QPSK	135	138	26.10	26.10		27.5	0.0
100	PL2 QPSK	270	0	26.09	26.09		27.5	0.0
100	QPSK	1	1	26.36	26.36			
100	QPSK	1	137	26.09	26.09		27.5	0.0
100	QPSK	1	271	26.36	26.36			
100	QPSK	135	6	26.57	26.57			
100	QPSK	135	69	26.51	26.51		27.5	0.0
100	QPSK	135	138	26.53	26.53			
100	QPSK	270	0	26.54	26.54		27.5	0.0
100	QPSK	1	1	26.44	26.44		27.5	0.0
100	HDQAM	1	1	26.06	26.06		27.5	0.0
100	HDQAM	1	1	26.06	26.06		27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83330	83680	Tune-up time (min)	MPR (dB)
				3485	3493.98	3508.99		
				26.25	26.24	26.26	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83295	83325	83675	Tune-up time (min)	MPR (dB)
				3490.02	3498.98	3513.99		
				26.29	26.31	26.31	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	83284	83312	83632	Tune-up time (min)	MPR (dB)
				82800	82832	83168		
				26.32	26.30	26.28	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83260	83288	83588	Tune-up time (min)	MPR (dB)
				3480	3488.98	3503.99		
				26.33	26.25	26.30	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83188	83216	83516	Tune-up time (min)	MPR (dB)
				3472.02	3479.98	3494.99		
				26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	83134	83162	83462	Tune-up time (min)	MPR (dB)
				3470.01	3478.98	3493.99		
				26.26	26.31	26.34	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	83100	83130	83430	Tune-up time (min)	MPR (dB)
				3465	3473.98	3488.99		
				26.33	26.33	26.27	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	83084	83112	83412	Tune-up time (min)	MPR (dB)
				3468.01	3476.98	3491.99		
				26.30	26.28	26.30	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	83068	83096	83396	Tune-up time (min)	MPR (dB)
				3460.02	3468.98	3483.99		
				26.33	26.33	26.34	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	83020	83048	83348	Tune-up time (min)	MPR (dB)
				3457.01	3465.98	3480.99		
				26.23	26.22	26.33	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	83004	83032	83332	Tune-up time (min)	MPR (dB)
				3450.01	3458.98	3473.99		
				26.31	26.31	26.33	27.5	0.0



State 9 Power

n2_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	PIG BPSK	1	1	23.95	23.95	23.95	0.0
20	PIG BPSK	1	53	23.95	23.95	23.95	25.0
20	PIG BPSK	1	104	23.75	23.85	23.77	24.5
20	PIG BPSK	50	0	23.75	23.75	23.75	0.0
20	PIG BPSK	50	28	23.72	23.82	23.85	25.0
20	PIG BPSK	50	56	23.71	23.79	23.73	24.5
20	PIG BPSK	100	0	23.71	23.75	23.75	0.0
20	QPSK	1	1	23.96	23.95	23.95	0.0
20	QPSK	1	53	23.78	23.84	23.85	25.0
20	QPSK	1	104	23.45	23.56	23.51	24.0
20	QPSK	50	0	23.50	23.50	23.50	0.0
20	QPSK	50	28	23.46	23.56	23.51	25.0
20	QPSK	50	56	23.50	23.52	23.50	24.0
20	MSK-M	1	1	23.71	23.72	23.83	24.0
20	MSK-M	1	1	23.46	23.56	23.48	25.0
20	MSK-M	1	1	19.40	19.53	19.44	20.5
Channel							
15	QPSK	1	1	19.73	19.80	19.72	20.5
15	QPSK	1	1	23.12	23.12	23.12	0.0
Channel							
10	QPSK	1	1	23.80	23.80	23.80	25.0
Channel							
5	QPSK	1	1	19.73	19.80	19.72	20.5
5	QPSK	1	1	23.12	23.12	23.12	0.0

n2_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	PIG BPSK	1	1	22.00	22.03	21.98	0.0
20	PIG BPSK	1	53	21.91	21.95	21.91	23.0
20	PIG BPSK	1	104	21.87	21.87	21.83	23.0
20	PIG BPSK	50	0	21.86	21.87	21.86	0.0
20	PIG BPSK	50	28	21.88	22.00	21.83	23.0
20	PIG BPSK	50	56	21.85	21.91	21.85	23.0
20	PIG BPSK	100	0	21.85	21.88	21.81	23.0
20	QPSK	1	1	22.01	22.00	22.00	0.0
20	QPSK	1	53	21.91	21.87	21.86	23.0
20	QPSK	1	104	21.86	21.91	21.85	23.0
20	QPSK	50	0	21.82	21.89	21.86	23.0
20	QPSK	50	28	22.00	22.03	21.85	23.0
20	QPSK	50	56	21.88	21.88	21.85	23.0
20	MSK-M	1	1	21.86	22.00	21.85	23.0
20	MSK-M	1	1	21.82	21.84	21.78	23.0
20	MSK-M	1	1	17.84	17.90	17.85	20.5
20	MSK-M	1	1	19.40	19.53	19.44	20.5
Channel							
15	QPSK	1	1	19.73	19.80	19.72	20.5
15	QPSK	1	1	23.12	23.12	23.12	0.0
Channel							
10	QPSK	1	1	21.80	21.80	21.80	23.0
Channel							
5	QPSK	1	1	19.73	19.80	19.72	20.5
5	QPSK	1	1	23.12	23.12	23.12	0.0

n2_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 372000	Power Mid Ch. Freq. 376000	Power High Ch. Freq. 380000	MPR (dB)
Channel							
20	PIG BPSK	1	1	22.83	22.85	22.80	0.0
20	PIG BPSK	1	53	22.87	22.83	22.80	24.5
20	PIG BPSK	1	104	22.75	22.74	22.73	24.0
20	PIG BPSK	50	0	22.76	22.76	22.75	0.0
20	PIG BPSK	50	28	22.73	22.84	22.75	24.5
20	PIG BPSK	50	56	22.77	22.73	22.75	24.0
20	PIG BPSK	100	0	22.77	22.81	22.75	0.0
20	QPSK	1	1	22.90	22.90	22.90	0.0
20	QPSK	1	53	22.73	22.85	22.75	24.5
20	QPSK	1	104	22.87	22.83	22.74	23.5
20	QPSK	50	0	22.87	22.75	22.80	23.5
20	QPSK	50	28	22.76	22.86	22.75	24.5
20	QPSK	50	56	22.81	22.87	22.80	23.5
20	MSK-M	1	1	21.84	21.83	21.75	23.0
20	MSK-M	1	1	21.86	21.81	21.72	23.5
20	MSK-M	1	1	17.87	17.92	17.85	20.0
20	MSK-M	1	1	19.28	19.33	19.22	20.0
Channel							
15	QPSK	1	1	19.73	19.80	19.72	20.5
15	QPSK	1	1	23.12	23.12	23.12	0.0
Channel							
10	QPSK	1	1	22.74	22.87	22.72	24.5
Channel							
5	QPSK	1	1	19.73	19.80	19.72	20.5
5	QPSK	1	1	23.12	23.12	23.12	0.0



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
20	PWQ-BPSK	1	1	24.53	24.63	24.68	20.0	0.0	
Frequency (MHz)									
20	PWQ-BPSK	1	53	24.49	24.47	24.45	20.0	0.0	
20	PWQ-BPSK	1	104	24.37	24.37	24.31	20.0	0.0	
20	PWQ-BPSK	50	0	24.47	24.56	24.52	20.0	0.0	
20	PWQ-BPSK	50	50	23.92	24.01	23.98	20.0	0.0	
20	PWQ-BPSK	100	0	23.88	23.88	23.84	20.0	0.0	
20	QPSK	1	1	24.56	24.65	24.62	20.0	0.0	
20	QPSK	1	53	24.50	24.53	24.58	20.0	0.0	
20	QPSK	1	104	24.35	24.33	24.31	20.0	0.0	
20	QPSK	50	0	23.82	23.77	23.85	20.0	1.0	
20	QPSK	50	50	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	50	23.72	23.78	23.87	20.0	1.0	
20	QPSK	100	0	23.86	23.79	23.86	20.0	1.0	
20	MSK-M	1	1	23.82	23.88	23.88	20.0	1.0	
20	MSK-M	1	1	23.78	23.78	23.78	20.0	2.5	
20	MSK-M	1	1	20.14	20.23	20.11	21.5	4.5	
Channel									
15	QPSK	1	1	24.41	24.42	24.42	20.0	1.0	
Frequency (MHz)									
15	QPSK	1	1	16500	16700	16600	Turn-up limit (dBm)	MPR (dB)	
Channel									
10	QPSK	1	1	24.52	24.53	24.52	20.0	0.0	
Frequency (MHz)									
5	QPSK	1	1	24.52	24.53	24.52	20.0	1.0	

n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
20	PWQ-BPSK	1	1	24.53	24.63	24.68	20.0	0.0	
Frequency (MHz)									
20	PWQ-BPSK	1	50	24.40	24.47	24.45	20.0	0.0	
20	PWQ-BPSK	1	104	24.37	24.37	24.31	20.0	0.0	
20	PWQ-BPSK	50	0	24.38	24.58	24.52	20.0	0.0	
20	PWQ-BPSK	50	50	24.47	24.58	24.52	20.0	0.0	
20	PWQ-BPSK	100	0	23.92	24.01	23.98	20.0	0.0	
20	PWQ-BPSK	100	0	23.88	23.88	23.84	20.0	0.0	
20	QPSK	1	1	24.56	24.65	24.62	20.0	0.0	
20	QPSK	1	53	24.50	24.53	24.58	20.0	0.0	
20	QPSK	1	104	24.35	24.33	24.31	20.0	0.0	
20	QPSK	50	0	23.82	23.77	23.85	20.0	1.0	
20	QPSK	50	50	24.56	24.62	24.52	20.0	0.0	
20	QPSK	50	50	23.70	23.78	23.87	20.0	1.0	
20	QPSK	100	0	23.86	23.79	23.86	20.0	1.0	
20	MSK-M	1	1	23.82	23.88	23.88	20.0	1.0	
20	MSK-M	1	1	22.78	22.78	22.78	21.5	2.5	
20	MSK-M	1	1	20.14	20.23	20.11	21.5	4.5	
Channel									
15	QPSK	1	1	24.41	24.42	24.42	20.0	1.0	
Frequency (MHz)									
10	QPSK	1	1	16500	16700	16600	Turn-up limit (dBm)	MPR (dB)	
Channel									
10	QPSK	1	1	24.52	24.53	24.52	20.0	0.0	
Frequency (MHz)									
5	QPSK	1	1	24.52	24.53	24.52	20.0	1.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPR (dB)	
Channel									
40	PWQ-BPSK	1	1	23.78	23.88	23.88	20.0	0.0	
Frequency (MHz)									
40	PWQ-BPSK	1	108	23.70	23.57	23.50	20.0	0.0	
40	PWQ-BPSK	1	214	23.74	23.85	23.73	20.0	0.0	
40	PWQ-BPSK	108	0	23.57	23.57	23.50	24.5	0.5	
40	PWQ-BPSK	108	54	23.72	23.80	23.71	20.0	0.0	
40	PWQ-BPSK	108	108	23.74	23.70	23.74	24.5	0.5	
40	PWQ-BPSK	216	0	23.18	23.33	23.18	20.0	0.0	
40	QPSK	1	1	23.80	23.82	23.80	20.0	0.0	
40	QPSK	1	108	23.74	23.83	23.78	20.0	0.0	
40	QPSK	1	214	23.66	23.80	23.66	20.0	0.0	
40	QPSK	108	0	23.59	23.55	23.58	24.0	1.0	
40	QPSK	108	54	23.71	23.83	23.69	20.0	0.0	
40	QPSK	108	108	23.65	23.15	23.68	24.0	1.0	
40	MSK-M	1	1	23.86	23.83	23.86	20.0	1.0	
40	MSK-M	1	1	21.41	21.56	21.44	21.5	2.5	
40	MSK-M	1	1	19.45	19.37	19.44	20.5	0.5	
Channel									
30	QPSK	1	1	23.15	23.07	23.00	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	QPSK	1	1	23.13	23.07	23.10	Turn-up limit (dBm)	MPR (dB)	
Channel									
25	QPSK	1	1	23.72	23.70	23.72	20.0	0.0	
Frequency (MHz)									
25	QPSK	1	1	23.72	23.70	23.72	20.0	0.0	
Channel									
20	QPSK	1	1	23.10	23.10	23.11	20.0	0.0	
Frequency (MHz)									
20	QPSK	1	1	23.10	23.10	23.10	Turn-up limit (dBm)	MPR (dB)	
Channel									
15	QPSK	1	1	23.03	23.04	23.04	20.0	0.0	
Frequency (MHz)									
15	QPSK	1	1	23.04	23.03	23.03	20.0	0.0	
Channel									
10	QPSK	1	1	23.14	23.10	23.10	20.0	0.0	
Frequency (MHz)									
5	QPSK	1	1	23.10	23.10	23.10	20.0	0.0	



### n7\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 30400	Mid. Ch. Freq. 30500	High Ch. Freq. 31000		
Channel								
40	PSSBPSK	1	1	22.78	22.83	22.85		
Frequency (MHz)								
40	PSSBPSK	1	108	22.79	22.82	22.79	24.0	0.0
40	PSSBPSK	1	214	22.75	22.83	22.82	24.0	0.0
40	PSSBPSK	108	0	22.82	22.85	22.79	24.0	0.0
40	PSSBPSK	108	54	22.75	22.85	22.82	24.0	0.0
40	PSSBPSK	108	108	22.80	22.79	22.71	24.0	0.0
40	PSSBPSK	216	0	22.72	22.88	22.78	24.0	0.0
40	QPSK	1	1	22.96	22.95	22.95		
40	QPSK	1	108	22.71	22.82	22.77	24.0	0.0
40	QPSK	1	214	22.86	22.87	22.84	24.0	0.0
40	QPSK	108	0	22.83	22.82	22.78	24.0	0.0
40	QPSK	108	54	22.73	22.83	22.83	24.0	0.0
40	QPSK	108	108	22.88	22.79	22.87	24.0	0.0
40	QPSK	216	0	22.75	22.88	22.80	24.0	0.0
40	QPSK	1	1	22.70	22.88	22.80	24.0	0.0
40	MCSAM	1	1	21.41	21.56	21.44	22.5	1.5
40	MCSAM	1	1	19.45	19.57	19.44	20.5	3.5
Channel								
Frequency (MHz)								
16	QPSK	1	1	22.74	22.92	22.92		
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.90	22.79	22.81	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.76	22.82	22.79	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.71	22.81	22.80	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.81	22.83	22.86	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.82	22.88	22.78	24.0	0.0

### n12\_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid. Ch. Freq. 141500	High Ch. Freq. 141500		
Channel								
Frequency (MHz)								
10	PSSBPSK	1	1	24.48	24.53	24.50		
10	PSSBPSK	1	40	24.53	24.41	24.40	26.0	0.0
10	PSSBPSK	1	77	24.38	24.47	24.45		
10	PSSBPSK	36	0	23.90	23.91	23.90	25.5	0.5
10	PSSBPSK	36	22	24.42	24.43	24.40	26.0	0.0
10	PSSBPSK	36	48	23.91	23.93	23.90	25.5	0.5
10	PSSBPSK	72	0	23.84	23.93	23.90	25.5	0.5
10	QPSK	1	1	24.50	24.50	24.50		
10	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
10	QPSK	1	77	24.39	24.50	24.34	26.0	1.0
10	QPSK	36	0	23.48	23.53	23.37	25.0	1.0
10	QPSK	36	22	24.47	24.52	24.30	26.0	0.0
10	QPSK	36	44	23.48	23.58	23.40	25.0	1.0
10	QPSK	72	0	23.50	23.58	23.53	25.0	1.0
10	MCSAM	1	1	22.42	22.55	22.49	25.0	1.0
10	MCSAM	1	1	22.00	22.13	21.97	23.5	2.5
10	MCSAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	24.43	24.43	24.30	26.0	0.0

### n12\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid. Ch. Freq. 141500	High Ch. Freq. 141500		
Channel								
Frequency (MHz)								
15	PSSBPSK	1	1	24.48	24.53	24.50		
15	PSSBPSK	1	40	24.53	24.41	24.40	26.0	0.0
15	PSSBPSK	1	77	24.38	24.47	24.45		
15	PSSBPSK	36	0	23.90	23.91	23.90	25.5	0.5
15	PSSBPSK	36	22	24.42	24.43	24.40	26.0	0.0
15	PSSBPSK	36	44	23.91	23.93	23.90	25.5	0.5
15	PSSBPSK	72	0	23.84	23.93	23.90	25.5	0.5
15	QPSK	1	1	24.50	24.50	24.50		
15	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
15	QPSK	1	77	24.39	24.50	24.34	26.0	1.0
15	QPSK	36	0	23.48	23.53	23.37	25.0	1.0
15	QPSK	36	22	24.47	24.52	24.30	26.0	0.0
15	QPSK	36	44	23.48	23.58	23.40	25.0	1.0
15	QPSK	72	0	23.50	23.58	23.53	25.0	1.0
15	MCSAM	1	1	22.42	22.55	22.49	25.0	1.0
15	MCSAM	1	1	22.00	22.13	21.97	23.5	2.5
15	MCSAM	1	1	19.98	20.04	19.94	21.5	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	24.43	24.43	24.30	26.0	0.0



n25_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power		Turn-up time (min)	MPR (dB)				
				Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)						
Channel											
40	PSS-BPSK	1	1	24.30	24.45	24.41	0.0				
Frequency (MHz)											
40	PSS-BPSK	1	108	22.22	22.28	22.27	25.0				
40	PSS-BPSK	1	214	22.24	22.32	22.28	0.0				
40	PSS-BPSK	108	0	22.29	22.29	22.29	24.5				
40	PSS-BPSK	108	54	22.25	22.45	22.35	0.0				
40	PSS-BPSK	108	108	22.30	22.20	22.25	24.5				
40	PSS-BPSK	216	0	22.33	22.33	22.31	0.0				
40	QPSK	1	1	24.43	24.53	24.48	0.0				
40	QPSK	1	108	22.31	22.47	22.31	25.0				
40	QPSK	1	214	22.34	22.45	22.32	0.0				
40	QPSK	108	0	22.33	22.33	22.33	24.0				
40	QPSK	108	54	22.33	22.45	22.36	0.0				
40	QPSK	108	108	22.32	22.34	22.32	24.0				
40	QPSK	216	0	22.33	22.38	22.32	0.0				
40	16QAM	1	1	22.28	22.31	22.29	25.0				
40	16QAM	1	1	22.28	22.32	22.29	25.0				
40	256QAM	1	1	22.28	22.32	22.29	25.0				
Channel											
15	QPSK	1	1	24.30	24.45	24.38	0.0				
Frequency (MHz)											
15	QPSK	1	108	22.22	22.28	22.27	25.0				
Frequency (MHz)											
25	QPSK	1	1	24.30	24.45	24.38	0.0				
Channel											
20	QPSK	1	1	24.30	24.44	24.32	0.0				
Channel											
15	QPSK	1	1	24.30	24.45	24.38	0.0				
Channel											
15	QPSK	1	1	24.30	24.45	24.38	0.0				
Channel											
15	QPSK	1	1	24.30	24.45	24.38	0.0				
Channel											
5	QPSK	1	1	24.30	24.40	24.38	0.0				

n25_Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power		Turn-up time (min)	MPR (dB)				
				Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)						
Channel											
40	PSS-BPSK	1	1	22.43	22.53	22.48	0.0				
Frequency (MHz)											
40	PSS-BPSK	1	108	22.22	22.40	22.26	25.0				
40	PSS-BPSK	1	214	22.24	22.44	22.24	0.0				
40	PSS-BPSK	108	0	22.26	22.26	22.26	25.0				
40	PSS-BPSK	108	54	22.41	22.20	22.43	0.0				
40	PSS-BPSK	108	108	22.28	22.44	22.31	0.0				
40	PSS-BPSK	216	0	22.28	22.48	22.40	0.0				
40	QPSK	1	1	22.46	22.50	22.48	0.0				
40	QPSK	1	108	22.22	22.29	22.22	25.0				
40	QPSK	1	214	22.26	22.45	22.24	0.0				
40	QPSK	108	0	22.28	22.29	22.23	25.0				
40	QPSK	108	54	22.42	22.23	22.45	0.0				
40	QPSK	108	108	22.28	22.37	22.37	25.0				
40	QPSK	216	0	22.40	22.50	22.45	0.0				
40	16QAM	1	1	22.22	22.29	22.22	25.0				
40	16QAM	1	1	22.28	22.40	22.22	25.0				
40	256QAM	1	1	22.28	22.40	22.22	25.0				
Channel											
30	QPSK	1	1	22.22	22.44	22.42	0.0				
Frequency (MHz)											
30	QPSK	1	108	22.22	22.44	22.42	25.0				
Frequency (MHz)											
25	QPSK	1	1	22.22	22.44	22.41	25.0				
Channel											
20	QPSK	1	1	22.22	22.44	22.42	0.0				
Channel											
15	QPSK	1	1	22.22	22.41	22.33	25.0				
Channel											
10	QPSK	1	1	22.22	22.41	22.33	25.0				
Channel											
10	QPSK	1	1	22.22	22.41	22.33	25.0				
Channel											
5	QPSK	1	1	22.22	22.44	22.32	25.0				

n25_Ant 7											
BW (MHz)	Modulation	RB Size	RB Offset	Power		Turn-up time (min)	MPR (dB)				
				Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)						
Channel											
40	PSS-BPSK	1	1	22.21	22.00	22.28	0.0				
Frequency (MHz)											
40	PSS-BPSK	1	108	22.76	22.90	22.81	24.5				
40	PSS-BPSK	1	214	22.83	22.86	22.83	0.0				
40	PSS-BPSK	108	0	22.76	22.74	22.82	24.0				
40	PSS-BPSK	108	54	22.82	22.81	22.82	24.5				
40	PSS-BPSK	108	108	22.77	22.45	22.70	0.0				
40	PSS-BPSK	216	0	22.77	22.40	22.35	24.0				
40	QPSK	1	1	22.95	22.93	22.90	0.0				
40	QPSK	1	108	22.79	22.88	22.73	24.5				
40	QPSK	1	214	22.80	22.93	22.82	0.0				
40	QPSK	108	0	22.88	22.81	22.78	25.0				
40	QPSK	108	54	22.76	22.82	22.74	25.0				
40	QPSK	108	108	22.83	22.73	22.87	25.0				
40	QPSK	216	0	22.80	22.83	22.70	25.0				
40	16QAM	1	1	22.71	22.81	22.78	25.0				
40	16QAM	1	1	22.81	22.90	22.80	25.0				
40	256QAM	1	1	22.84	22.93	22.80	25.0				
Channel											
30	QPSK	1	1	22.80	22.83	22.80	25.0				
Frequency (MHz)											
25	QPSK	1	1	22.84	22.97	22.90	24.5				
Channel											
20	QPSK	1	1	22.80	22.83	22.80	25.0				
Channel											
15	QPSK	1	1	22.80	22.90	22.88	24.5				
Channel											
10	QPSK	1	1	22.81	22.93	22.91	25.0				
Channel											
5	QPSK	1	1	22.82	22.90	22.81	24.5				



n26_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 164950	Mid. Ch. Freq. 165000	High Ch. Freq. 165050		
Channel								
20	PSS-OFDM	1	1	24.45	24.45	24.45	20.0	0.0
Frequency (MHz)								
				24.4	24.5	24.5		
20	PSS-OFDM	1	53	24.54	24.54	24.47	20.0	0.0
20	PSS-OFDM	1	104	24.45	24.45	24.39	20.0	0.0
20	PSS-OFDM	56	0	23.95	24.05	23.97	20.5	0.5
20	PSS-OFDM	56	28	24.45	24.55	24.48	20.0	0.0
20	PSS-OFDM	56	56	23.95	24.05	23.97	20.5	0.5
20	PSS-OFDM	100	0	24.05	24.05	23.92	20.5	0.5
20	QPSK	1	1	24.45	24.45	24.45	20.0	0.0
20	QPSK	1	53	24.57	24.53	24.37	20.0	0.0
20	QPSK	1	104	24.51	24.56	24.48	20.0	0.0
20	QPSK	56	0	23.70	23.78	23.70	20.0	1.0
20	QPSK	56	28	24.45	24.56	24.53	20.0	0.0
20	QPSK	56	56	23.70	23.78	23.69	20.0	1.0
20	QPSK	100	0	23.69	23.78	23.67	20.0	1.0
20	16QAM	1	1	23.95	23.95	23.95	20.0	1.0
20	16QAM	1	1	23.95	23.95	23.95	20.0	1.0
20	16QAM	1	1	20.10	20.20	20.21	21.5	4.5
Channel								
				24.0	24.0	24.0		
Frequency (MHz)								
				24.0	24.0	24.0		
10	QPSK	1	1	24.47	24.50	24.44	20.0	0.0
Channel								
				24.47	24.50	24.44		
Frequency (MHz)								
				24.47	24.50	24.44		
10	QPSK	1	1	24.47	24.50	24.44	20.0	0.0
Channel								
				24.47	24.50	24.44		
Frequency (MHz)								
				24.47	24.50	24.44		

n26_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 164950	Mid. Ch. Freq. 165000	High Ch. Freq. 165050		
Channel								
20	PSS-OFDM	1	1	24.40	24.40	24.40	20.0	0.0
Frequency (MHz)								
				24.4	24.5	24.5		
20	PSS-OFDM	1	50	24.54	24.50	24.47	20.0	0.0
20	PSS-OFDM	1	104	24.40	24.40	24.39	20.0	0.0
20	PSS-OFDM	56	0	23.99	24.05	23.91	20.5	0.5
20	PSS-OFDM	56	28	24.40	24.52	24.40	20.0	0.0
20	PSS-OFDM	56	56	23.99	24.05	23.91	20.5	0.5
20	PSS-OFDM	100	0	24.05	24.08	23.92	20.5	0.5
20	QPSK	1	1	24.40	24.40	24.40	20.0	0.0
20	QPSK	1	50	24.57	24.53	24.37	20.0	0.0
20	QPSK	1	104	24.51	24.56	24.48	20.0	0.0
20	QPSK	56	0	23.70	23.78	23.70	20.0	1.0
20	QPSK	56	28	24.40	24.50	24.53	20.0	0.0
20	QPSK	56	56	23.70	23.78	23.69	20.0	1.0
20	QPSK	100	0	23.69	23.78	23.61	20.0	1.0
20	16QAM	1	1	23.99	23.99	23.99	20.0	1.0
20	16QAM	1	1	22.20	22.20	22.20	21.5	2.5
20	16QAM	1	1	20.10	20.20	20.21	21.5	4.5
Channel								
				24.0	24.0	24.0		
Frequency (MHz)								
				24.0	24.0	24.0		
10	QPSK	1	1	24.42	24.44	24.42	20.0	1.0
Channel								
				24.42	24.44	24.42		
Frequency (MHz)								
				24.42	24.44	24.42		
10	QPSK	1	1	24.47	24.50	24.44	20.0	0.0
Channel								
				24.47	24.50	24.44		
Frequency (MHz)								
				24.47	24.50	24.44		

n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 164950	Mid. Ch. Freq. 165000	High Ch. Freq. 165050		
Channel								
10	PSS-OFDM	1	1					
Frequency (MHz)								
				18.72				
10	PSS-OFDM	1	26				18.0	0.0
10	PSS-OFDM	1	50				18.0	0.0
10	PSS-OFDM	20	0				18.0	0.0
10	PSS-OFDM	20	14				18.0	0.0
10	PSS-OFDM	20	27				18.0	0.0
10	PSS-OFDM	50	0				18.0	0.0
10	QPSK	1	1				18.0	0.0
10	QPSK	1	26				18.0	0.0
10	QPSK	1	50				18.0	0.0
10	QPSK	20	0				18.0	0.0
10	QPSK	20	14				18.0	0.0
10	QPSK	20	27				18.0	0.0
10	QPSK	50	0				18.0	0.0
10	16QAM	1	1				18.0	0.0
10	16QAM	1	1				18.0	0.0
10	16QAM	1	1				18.0	0.0
Channel								
				18.72				
Frequency (MHz)								
				18.72				
10	QPSK	1	1	18.54	18.54	18.54	18.0	0.0



n30_Ant 2									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P12-BPSK	1	1	19.73			19.0	0.0	
10	P12-BPSK	1	26	19.67			19.0	0.0	
10	P12-BPSK	1	50	19.60			19.0	0.0	
10	P12-BPSK	25	0	19.67			19.0	0.0	
10	P12-BPSK	25	14	19.60			19.0	0.0	
10	P12-BPSK	25	27	19.53			19.0	0.0	
10	QPSK	1	0	19.68			19.0	0.0	
10	QPSK	1	1	19.75			19.0	0.0	
10	QPSK	1	26	19.71			19.0	0.0	
10	QPSK	1	50	19.72			19.0	0.0	
10	QPSK	25	0	19.72			19.0	0.0	
10	QPSK	25	14	19.72			19.0	0.0	
10	QPSK	25	27	19.72			19.0	0.0	
10	QPSK	50	0	19.71			19.0	0.0	
10	16QAM	1	1	19.64			19.0	0.0	
10	16QAM	1	1	19.76			19.0	0.0	
10	256QAM	1	1	19.67			19.0	0.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	19.74	19.74	19.74	19.0	0.0	

n30_Ant 7									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	P12-BPSK	1	1	22.78			24.0	0.0	
10	P12-BPSK	1	26	22.69			24.0	0.0	
10	P12-BPSK	1	50	22.70			24.0	0.0	
10	P12-BPSK	25	0	22.71			24.0	0.0	
10	P12-BPSK	25	14	22.68			24.0	0.0	
10	P12-BPSK	25	27	22.58			24.0	0.0	
10	P12-BPSK	50	0	22.60			24.0	0.0	
10	QPSK	1	0	22.70			24.5	0.0	
10	QPSK	1	26	22.73			24.5	0.0	
10	QPSK	1	50	22.72			24.5	0.0	
10	QPSK	25	0	21.58			23.0	1.0	
10	QPSK	25	14	22.08			24.5	0.0	
10	QPSK	25	27	21.58			23.0	1.0	
10	16QAM	1	1	21.60			23.0	1.0	
10	16QAM	1	1	22.11			23.0	1.0	
10	256QAM	1	1	21.53			23.0	1.0	
Channel									
Frequency (MHz)									
1	QPSK	1	1	22.83	22.83	22.83	24.5	0.0	

n66_Ant 1									
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12-BPSK	1	1	24.42	24.50	24.45			
40	P12-BPSK	1	108	24.50	24.40	24.34	25.0	0.0	
40	P12-BPSK	1	214	24.35	24.43	24.34			
40	P12-BPSK	108	0	23.97	23.90	23.94	24.5	0.0	
40	P12-BPSK	108	54	24.33	24.45	24.30	25.0	0.0	
40	P12-BPSK	108	108	23.90	23.93	23.91	24.5	0.0	
40	P12-BPSK	216	0	23.99	23.95	23.93			
40	QPSK	1	1	24.45	24.53	24.48			
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0	
40	QPSK	1	214	24.51	24.43	24.53			
40	QPSK	108	0	23.32	23.43	23.28	24.0	1.0	
40	QPSK	108	54	24.51	24.30	24.50	25.0	0.0	
40	QPSK	108	108	23.28	23.32	23.27	24.0	1.0	
40	16QAM	1	1	23.12	23.30	23.50	24.0	1.0	
40	16QAM	1	1	23.25	23.33	23.28	24.0	1.0	
40	16QAM	1	1	21.80	21.90	21.77	22.5	2.5	
40	256QAM	1	1	19.81	19.88	19.82	20.5	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.50	24.50	24.50	25.0	0.0	
25	QPSK	1	1	24.29	24.47	24.41	25.0	0.0	
25	QPSK	1	1	24.29	24.47	24.41	25.0	0.0	
20	QPSK	1	1	24.50	24.45	24.34	25.0	0.0	
15	QPSK	1	1	24.29	24.43	24.33	25.0	0.0	
10	QPSK	1	1	24.50	24.45	24.41	25.0	0.0	
5	QPSK	1	1	24.34	24.48	24.34	25.0	0.0	



n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 345000	Power Media Ch. Freq. 346000	Power High Ch. Freq. 350000	Tune-up limit (dBm)	MPR (dB)	
Channel									
40	PI2-BPSK	1	1	21.95	22.02	22.00			
Frequency (MHz)									
40	PI2-BPSK	1	108	21.95	21.99	21.99	22.5	0.0	
40	PI2-BPSK	1	214	21.79	21.84	21.81	22.5	0.0	
40	PI2-BPSK	108	0	21.79	21.95	21.92	22.5	0.0	
40	PI2-BPSK	108	54	21.53	22.00	21.98	22.5	0.0	
40	PI2-BPSK	108	108	21.53	21.95	21.95	22.5	0.0	
40	QPSK	1	0	21.95	22.05	22.07			
40	QPSK	1	108	21.88	21.99	21.92	22.5	0.0	
40	QPSK	1	214	21.76	21.89	21.86	22.5	0.0	
40	QPSK	108	0	21.84	21.95	21.92	22.5	0.0	
40	QPSK	108	54	21.58	22.03	21.99	22.5	0.0	
40	QPSK	108	108	21.58	21.93	21.83	22.5	0.0	
40	QPSK	216	0	21.52	22.00	21.95	22.5	0.0	
40	MSK-M	1	1	21.82	21.85	21.85	22.5	0.0	
40	MSK-M	1	1	21.95	21.95	21.92	22.5	0.0	
40	MSK-M	1	1	19.81	19.85	19.87	20.5	2.0	
Channel									
76	QPSK	1	1	17.23	17.63	17.63	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
76	QPSK	1	1	34.29	34.60	34.59	Tune-up limit (dBm)	MPR	
Channel									
20	QPSK	1	1	21.90	21.90	21.91	22.5	0.0	
Frequency (MHz)									
20	QPSK	1	1	17.23	17.63	17.63	Tune-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	21.90	22.00	21.99	22.5	0.0	
Frequency (MHz)									
15	QPSK	1	1	17.15	17.63	17.63	Tune-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	34.29	34.60	34.59	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
1	QPSK	1	1	21.93	21.93	21.95	22.5	0.0	

n66_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 345000	Power Media Ch. Freq. 346000	Power High Ch. Freq. 350000	Tune-up limit (dBm)	MPR (dB)	
Channel									
40	PI2-BPSK	1	1	22.89	22.92	22.83			
Frequency (MHz)									
40	PI2-BPSK	1	108	22.79	22.85	22.79	24.5	0.0	
40	PI2-BPSK	1	214	22.62	22.89	22.73	24.5	0.0	
40	PI2-BPSK	108	0	22.79	22.91	22.79	24.5	0.0	
40	PI2-BPSK	108	54	22.78	22.83	22.76	24.5	0.0	
40	PI2-BPSK	108	108	22.29	22.91	22.76	24.5	0.0	
40	PI2-BPSK	216	0	22.78	22.91	22.74	24.5	0.0	
40	QPSK	1	0	22.82	22.90	22.85			
40	QPSK	1	108	22.82	22.88	22.83	24.5	0.0	
40	QPSK	1	214	22.64	22.91	22.76	24.5	0.0	
40	QPSK	108	0	21.79	21.82	21.89	23.0	1.0	
40	QPSK	108	54	22.74	22.80	22.76	24.5	0.0	
40	QPSK	108	108	21.88	21.73	21.57	23.5	1.0	
40	MSK-M	1	1	21.78	21.80	21.79	23.0	1.0	
40	MSK-M	1	1	20.31	20.43	20.37	22.0	2.0	
40	MSK-M	1	1	19.37	19.35	19.20	20.0	4.0	
Channel									
40	QPSK	1	1	17.23	17.63	17.63	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
40	QPSK	1	1	34.29	34.60	34.59	Tune-up limit (dBm)	MPR	
Channel									
10	QPSK	1	1	22.83	22.83	22.82	24.5	0.0	
Frequency (MHz)									
10	QPSK	1	1	17.23	17.63	17.63	Tune-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	22.82	22.83	22.81	24.5	0.0	
Frequency (MHz)									
15	QPSK	1	1	22.81	22.84	22.83	24.5	0.0	
Channel									
15	QPSK	1	1	17.15	17.63	17.63	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	1	34.29	34.60	34.59	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
1	QPSK	1	1	22.19	22.84	22.35	24.5	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 136000	Power Media Ch. Freq. 138100	Power High Ch. Freq. 139000	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	PI2-BPSK	1	1	24.43	24.80	24.55			
Frequency (MHz)									
20	PI2-BPSK	1	30	23.57	24.40	24.40	24.0	0.0	
20	PI2-BPSK	1	104	24.33	24.82	24.47	24.0	0.0	
20	PI2-BPSK	30	0	23.70	24.50	24.31	23.5	0.0	
20	PI2-BPSK	30	24	24.35	24.84	24.44	23.0	0.0	
20	PI2-BPSK	30	50	23.70	24.57	24.31	23.5	0.0	
20	PI2-BPSK	100	0	23.82	24.85	23.88	23.0	0.0	
20	QPSK	1	1	24.40	24.83	24.50			
20	QPSK	1	30	24.48	24.83	24.40	24.0	0.0	
20	QPSK	1	104	24.40	24.90	24.51	24.0	0.0	
20	QPSK	30	0	23.49	23.99	23.43	23.0	1.0	
20	QPSK	30	24	24.40	24.94	24.50	23.0	0.0	
20	QPSK	30	50	23.42	23.98	23.49	23.0	1.0	
20	MSK-M	1	1	23.42	23.95	23.50	23.0	1.0	
20	MSK-M	1	1	21.14	21.80	21.50	21.0	2.0	
20	MSK-M	1	1	19.73	19.83	19.72	21.0	4.0	
Channel									
20	QPSK	1	1	18.81	18.81	18.81	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
15	PI2-BPSK	1	1	24.43	24.50	24.42	23.0	0.0	
Channel									
10	PI2-BPSK	1	1	24.43	24.50	24.51	23.0	0.0	
Frequency (MHz)									
10	PI2-BPSK	1	1	18.81	18.81	18.81	Tune-up limit (dBm)	MPR	
Frequency (MHz)									
1	PI2-BPSK	1	1	24.54	24.54	24.51	23.0	0.0	





n71_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Totalsq (dBm)	APRS (dB)
Channel								
Frequency (MHz)				24.43	24.43	24.43		
10	PCF-SFSSA	1	1	24.43	24.43	24.43	24.4	0.0
10	PCF-SFSSA	1	50	24.37	24.40	24.40	24.0	0.0
10	PCF-SFSSA	1	104	24.33	24.32	24.27		
10	PCF-SFSSA	50	0	23.79	24.05	23.95	24.3	0.0
10	PCF-SFSSA	50	26	24.35	24.34	24.34	25.0	0.0
10	PCF-SFSSA	50	50	23.79	23.97	23.95		
10	PCF-SFSSA	100	0	23.42	24.05	23.98	25.0	0.0
10	QPSK	1	1	24.40	24.43	24.40		
10	QPSK	1	50	24.40	24.43	24.40	26.0	0.0
10	QPSK	50	0	23.49	23.59	23.43	25.0	1.0
10	QPSK	50	26	24.40	24.34	24.30	25.0	1.0
10	QPSK	50	50	23.42	23.58	23.49		
10	QPSK	100	0	23.42	23.55	23.39	25.0	1.0
10	16QAM	1	1	23.98	23.52	23.39	25.0	1.0
10	16QAM	1	1	23.94	23.45	23.39	23.0	2.0
10	256QAM	1	1	19.33	19.33	19.32	21.0	4.0
Channel								
Frequency (MHz)				89.13	89.13	89.13		
10	PCF-SFSSA	1	1	24.43	24.43	24.43	24.0	1.0
Channel								
Frequency (MHz)				137.60	137.60	137.60		
10	PCF-SFSSA	1	1	24.43	24.43	24.43	25.0	0.0
Channel								
Frequency (MHz)				137.60	137.60	137.60		
1	PCF-SFSSA	1	1	24.43	24.43	24.43	25.0	1.0



n38_Ant 1									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch./Freq	Power Med Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	21.85	21.83	21.80			
40	P12 BPSK	1	83	21.81	21.80	21.75	22.5	0.0	
40	P12 BPSK	1	104	21.79	21.84	21.85			
40	P12 BPSK	50	0	21.71	21.70	21.65	22.5	0.0	
40	P12 BPSK	50	28	21.83	21.80	21.75	22.5	0.0	
40	P12 BPSK	50	0	21.72	21.84	21.75	22.5	0.0	
40	QPSK	1	1	21.85	21.85	21.83			
40	QPSK	1	83	21.72	21.84	21.75	22.5	0.0	
40	QPSK	1	104	21.82	21.83	21.78			
40	QPSK	50	0	21.80	21.80	21.80	22.5	0.0	
40	QPSK	50	28	21.85	21.83	21.80	22.5	0.0	
40	QPSK	50	0	21.83	21.80	21.78	22.5	0.0	
40	QPSK	100	0	21.83	21.80	21.78	22.5	0.0	
40	16QAM	1	1	21.78	21.80	21.72	22.5	0.0	
40	16QAM	50	56	21.70	21.81	21.85			
40	256QAM	1	1	21.75	21.82	21.71	22.5	0.0	
40	256QAM	1	1	19.75	19.84	19.70	20.5	2.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.83	22.83	22.82			
30	QPSK	1	1	22.81	22.80	22.82	23.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.77	22.82	22.73	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.70	22.81	22.88	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	22.80	22.70	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.79	22.88	22.70	23.5	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch./Freq	Power Med Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.85	22.93	22.80			
40	P12 BPSK	1	83	22.76	22.84	22.72	23.5	0.0	
40	P12 BPSK	1	104	22.71	22.86	22.88			
40	P12 BPSK	50	0	22.72	22.77	22.66	23.5	0.0	
40	P12 BPSK	50	28	22.83	22.80	22.78	23.5	0.0	
40	P12 BPSK	50	0	22.80	22.80	22.80	23.5	0.0	
40	QPSK	1	1	22.86	22.85	22.82			
40	QPSK	1	83	22.73	22.86	22.74	23.5	0.0	
40	QPSK	1	104	22.78	22.87	22.77			
40	QPSK	50	0	22.78	22.87	22.80	23.5	0.0	
40	QPSK	50	28	22.83	22.83	22.80	23.5	0.0	
40	QPSK	50	0	22.80	22.80	22.78	23.5	0.0	
40	16QAM	1	1	22.75	22.87	22.75	23.5	0.0	
40	16QAM	50	56	22.75	22.85	22.87			
40	256QAM	1	1	21.75	21.82	21.71	22.5	1.0	
40	256QAM	1	1	19.75	19.84	19.70	20.5	2.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.81	22.80	22.82	23.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.77	22.82	22.73	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.70	22.81	22.88	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	22.80	22.70	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.79	22.88	22.70	23.5	0.0	

n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Med Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	20.95	21.08	21.08			
100	P12 BPSK	1	187	20.90	21.00	20.90	22.5	0.0	
100	P12 BPSK	1	271	20.90	20.93	20.93			
100	P12 BPSK	186	0	20.91	20.99	20.95	22.5	0.0	
100	P12 BPSK	136	66	20.93	21.05	21.03	22.5	0.0	
100	P12 BPSK	136	0	20.90	20.90	20.90	22.5	0.0	
100	P12 BPSK	270	0	20.90	21.03	21.01	22.5	0.0	
100	QPSK	1	1	20.98	21.11	21.08			
100	QPSK	1	187	20.92	21.02	20.95	22.5	0.0	
100	QPSK	1	271	20.94	21.03	21.03			
100	QPSK	186	0	20.95	21.00	20.95	22.5	0.0	
100	QPSK	136	66	20.95	21.09	21.05	22.5	0.0	
100	QPSK	136	0	20.95	21.09	21.05	22.5	0.0	
100	QPSK	270	0	20.93	21.06	21.03	22.5	0.0	
100	16QAM	1	1	20.84	20.96	21.02	22.5	0.0	
100	16QAM	1	1	20.84	20.95	20.87	22.5	0.0	
100	256QAM	1	1	20.84	20.95	20.86	22.5	0.0	
100	256QAM	1	1	18.84	18.95	18.84	20.5	2.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.95	21.06	21.05	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.94	20.99	21.01	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.87	20.96	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.95	20.99	20.99	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.93	20.93	20.93	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.85	20.93	20.95	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.90	20.98	20.98	22.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.84	20.95	20.95	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.85	20.96	20.95	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.87	21.03	21.01	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.90	20.97	20.90	22.5	0.0	



### n41\_HPUE\_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dB)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	23.58	23.85	23.81	25.0	0.0
100	PB2 BPSK	1	137	23.50	23.75	23.75	25.0	0.0
100	PB2 BPSK	1	271	23.49	23.69	23.75	25.0	0.0
100	PB2 BPSK	155	69	23.58	23.83	23.80	25.0	0.0
100	PB2 BPSK	155	158	23.44	23.73	23.82	25.0	0.0
100	PB2 BPSK	155	0	23.53	23.80	23.78	25.0	0.0
100	QPSK	1	1	23.62	23.89	23.85	25.0	0.0
100	QPSK	1	137	23.45	23.73	23.72	25.0	0.0
100	QPSK	1	271	23.35	23.83	23.73	25.0	0.0
100	QPSK	155	69	23.89	23.85	23.83	25.0	0.0
100	QPSK	155	158	23.54	23.78	23.78	25.0	0.0
100	QPSK	155	0	23.58	23.82	23.80	25.0	0.0
100	TDMA	1	1	23.81	23.81	23.75	25.0	0.0
100	TDMA	1	1	23.86	23.75	23.78	25.0	0.0
100	25QAM	1	1	23.80	21.78	21.81	23.0	2.0
Frequency (MHz)								
50	QPSK	1	1	23.43	23.77	23.75	25.0	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.36	23.76	23.69	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.51	23.73	23.70	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.54	23.79	23.76	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.53	23.77	23.73	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.50	23.74	23.80	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.50	23.73	23.70	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.48	23.75	23.71	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.46	23.77	23.70	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.54	23.80	23.80	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.48	23.75	23.75	25.0	0.0

### n41\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dB)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	21.93	22.08	22.05	23.5	0.0
100	PB2 BPSK	1	137	21.85	21.98	21.91	23.5	0.0
100	PB2 BPSK	1	271	21.82	21.97	21.93	23.5	0.0
100	PB2 BPSK	155	69	21.76	21.90	21.82	23.5	0.0
100	PB2 BPSK	155	69	21.90	22.05	22.01	23.5	0.0
100	PB2 BPSK	155	158	21.71	21.85	21.85	23.5	0.0
100	PB2 BPSK	155	0	21.83	21.92	21.88	23.5	0.0
100	QPSK	1	1	21.95	22.10	22.06	23.5	0.0
100	QPSK	1	137	21.82	21.92	21.93	23.5	0.0
100	QPSK	1	271	21.83	21.86	21.90	23.5	0.0
100	QPSK	155	69	21.86	22.00	21.94	23.5	0.0
100	QPSK	155	69	21.92	22.07	22.03	23.5	0.0
100	QPSK	155	158	21.88	21.95	21.92	23.5	0.0
100	QPSK	155	0	21.87	21.98	21.95	23.5	0.0
100	TDMA	1	1	21.85	21.82	21.85	23.0	0.5
100	25QAM	1	1	21.80	22.05	21.95	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.93	22.03	22.03	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	21.94	21.92	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.79	22.04	21.98	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.80	21.92	21.89	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.82	22.01	21.94	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.83	21.92	21.91	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.88	21.99	22.01	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.83	21.93	21.93	23.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	21.83	22.02	22.00	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.85	21.94	21.94	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.83	21.97	21.97	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.79	22.00	21.92	23.5	0.0

### n41\_HPUE\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dB)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	24.23	24.85	24.83	26.0	0.0
100	PB2 BPSK	1	137	24.41	24.78	24.78	26.0	0.0
100	PB2 BPSK	1	271	24.40	24.78	24.69	26.0	0.0
100	PB2 BPSK	155	69	24.50	24.83	24.80	26.0	0.0
100	PB2 BPSK	155	158	24.25	24.78	24.78	26.0	0.0
100	PB2 BPSK	155	0	24.45	24.78	24.78	26.0	0.0
100	QPSK	1	1	24.26	24.85	24.85	26.0	0.0
100	QPSK	1	137	24.43	24.80	24.76	26.0	0.0
100	QPSK	1	271	24.41	24.79	24.71	26.0	0.0
100	QPSK	155	69	24.49	24.79	24.67	26.0	0.0
100	QPSK	155	69	24.52	24.85	24.81	26.0	0.0
100	QPSK	155	158	24.44	24.77	24.76	26.0	0.0
100	QPSK	155	0	24.50	24.82	24.78	26.0	0.0
100	TDMA	1	1	24.44	24.82	24.76	26.0	0.0
100	25QAM	1	1	23.56	23.75	23.78	25.0	1.0
100	25QAM	1	1	23.60	21.78	21.81	23.0	3.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.43	24.79	24.79	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.47	24.73	24.69	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.48	24.72	24.72	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.49	24.69	24.68	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.41	24.74	24.74	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.42	24.71	24.70	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.61	24.74	24.73	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.49	24.73	24.70	26.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	24.43	24.81	24.79	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.47	24.76	24.80	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.43	24.80	24.81	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.42	24.75	24.79	26.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	P2B BPSK	1	1	18.40	18.58	18.53		
100	P2B BPSK	1	137	18.31	18.53	18.44	20.0	0.0
100	P2B BPSK	1	271	18.29	18.53	18.38		
100	P2B BPSK	158	9	18.52	18.49	18.54	20.0	0.0
100	P2B BPSK	158	69	18.58	18.55	18.50	20.0	0.0
100	P2B BPSK	158	138	18.52	18.55	18.45		
100	P2B BPSK	270	0	18.52	18.51	18.48	20.0	0.0
100	QPSK	1	1	18.43	18.40	18.56		
100	QPSK	1	137	18.52	18.44	18.40	20.0	0.0
100	QPSK	1	271	18.32	18.51	18.48		
100	QPSK	158	9	18.31	18.48	18.38		
100	QPSK	158	69	18.40	18.58	18.53	20.0	0.0
100	QPSK	158	138	18.50	18.45	18.41		
100	QPSK	270	0	18.58	18.55	18.50	20.0	0.0
100	TDMA	1	1	18.50	18.47	18.50	20.0	0.0
100	TDMA	1	1	18.51	18.55	18.42	20.0	0.0
100	TDMA	1	1	18.52	18.48	18.48	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.27	18.40	18.40	20.0	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	18.31	18.46	18.47	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.34	18.55	18.40	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.06	20.09	20.08	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.31	18.52	18.40	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.34	18.48	18.10	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.02	20.14	20.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.28	18.50	18.60	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.53	18.49	18.48	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.00	20.06	20.06	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.34	18.53	18.48	20.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	P2B BPSK	1	1	21.10	21.38	21.33		
100	P2B BPSK	1	137	20.24	21.21	21.22	22.5	0.0
100	P2B BPSK	1	271	20.97	21.28	21.17		
100	P2B BPSK	158	9	20.86	21.27	21.18	22.5	0.0
100	P2B BPSK	158	69	21.08	21.33	21.30	22.5	0.0
100	P2B BPSK	158	138	20.88	21.26	21.22	22.5	0.0
100	P2B BPSK	270	0	21.03	21.30	21.28	22.5	0.0
100	QPSK	1	1	21.11	21.38	21.35		
100	QPSK	1	137	21.03	21.31	21.22	22.5	0.0
100	QPSK	1	271	20.97	21.33	21.27		
100	QPSK	158	9	20.83	21.26	21.24	22.5	0.0
100	QPSK	158	69	21.08	21.35	21.31	22.5	0.0
100	QPSK	158	138	20.83	21.22	21.17	22.5	0.0
100	QPSK	270	0	21.05	21.33	21.28	22.5	0.0
100	TDMA	1	1	20.95	21.26	21.22	22.5	0.0
100	TDMA	1	1	21.05	21.28	21.21	22.5	0.0
100	TDMA	1	1	21.03	21.25	21.30	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.07	20.09	20.08	22.5	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	21.06	21.24	21.28	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.02	21.28	21.21	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.09	20.09	20.08	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.04	21.22	21.20	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.05	21.31	21.27	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.02	20.14	22.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	21.04	21.24	21.28	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.36	21.29	21.28	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.07	20.07	20.06	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.30	21.33	21.22	22.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	P2B BPSK	1	1	23.41	23.53	23.52		
100	P2B BPSK	1	137	23.32	23.45	23.43	25.0	0.0
100	P2B BPSK	1	271	23.30	23.37	23.38		
100	P2B BPSK	158	9	23.56	23.45	23.50	25.0	0.0
100	P2B BPSK	158	69	23.28	23.30	23.29	25.0	0.0
100	P2B BPSK	158	138	23.36	23.46	23.43	25.0	0.0
100	P2B BPSK	270	0	23.35	23.48	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.39	23.55		
100	QPSK	1	137	23.35	23.42	23.41	25.0	0.0
100	QPSK	1	271	23.48	23.53	23.41		
100	QPSK	158	9	23.52	23.38	23.32		
100	QPSK	158	69	23.30	23.41	23.27	25.0	0.0
100	QPSK	158	138	23.32	23.45	23.43	25.0	0.0
100	QPSK	270	0	23.01	23.13	23.04	25.0	0.0
100	TDMA	1	1	23.48	23.52	23.35	25.0	0.0
100	TDMA	1	1	23.32	23.48	23.43	25.0	0.0
100	TDMA	1	1	21.88	21.92	21.85	24.5	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.33	23.49	23.42	25.0	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	23.36	23.54	23.48	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.06	20.02	20.09	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.30	23.51	23.42	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.37	23.52	23.44	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.02	20.14	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.30	23.41	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.53	23.44	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.35	23.43	23.47	25.0	0.0



n41_HPUE_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	28.12	28.24	28.10			
100	P12 BPSK	1	137	28.00	28.24	28.03	27.5	0.0	
100	P12 BPSK	1	271	28.27	28.38	28.25			
100	P12 BPSK	155	9	28.27	28.37	28.34	27.5	0.5	
100	P12 BPSK	155	69	28.13	28.18	28.08	27.5	0.0	
100	P12 BPSK	155	138	28.12	28.18	28.08	27.0	0.5	
100	P12 BPSK	155	1	28.00	28.00	28.00			
100	QPSK	1	137	28.10	28.38	28.33	27.5	0.0	
100	QPSK	1	271	28.21	28.29	28.11			
100	QPSK	155	9	28.27	28.29	28.34	28.5	1.0	
100	QPSK	155	69	28.04	28.09	28.08	27.5	0.0	
100	QPSK	155	138	28.10	28.20	28.07	26.5	1.0	
100	QPSK	155	0	28.00	28.00	28.00			
100	TDMA	1	1	28.00	28.16	28.05	27.5	0.0	
100	TDMA	1	1	28.00	28.07	28.07	28.5	0.5	
100	25GDM	1	1	21.63	21.77	21.62	24.5	0.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.37	28.37	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.00	28.37	28.37	27.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.00	28.16	28.03	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	28.28	28.99	28.98	(dBm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.04	28.11	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	28.00	28.19	28.02	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.17	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	28.00	28.17	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.00	28.08	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	28.00	28.19	28.00	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.00	28.17	28.00	27.5	0.0	

n48_Part96_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.36	22.45	22.37	23.5	0.0	
40	P12 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	46	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.14	22.50	22.50			
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	46	22.16	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GDM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	

n48_Part96_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.36	22.45	22.37	23.5	0.0	
40	P12 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	46	22.36	22.44	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	51	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.14	22.50	22.50			
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	46	22.16	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	TDMA	1	1	22.02	22.17	22.11	23.5	0.0	
40	TDMA	1	1	22.07	22.17	22.05	23.5	1.0	
40	25GDM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.28	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.29	22.43	22.31	23.5	0.0	



n48_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.			
Channel									
	Frequency (MHz)			63600	64160	64532	Tune-up limit (dBm)	MPR (dB)	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.50	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.46	22.54	22.43			
40	PB2 BPSK	50	8	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	PB2 BPSK	50	26	22.38	22.48	22.39	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.50	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	58	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	8	22.18	22.24	22.30	23.5	0.0	
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	26	22.16	22.17	22.30	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.16	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel									
	Frequency (MHz)			3555.00	3624.99	3694.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.33	22.41	22.31	23.5	0.0	
Channel									
	Frequency (MHz)			63734	64166	64500	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
	Frequency (MHz)			637188	64160	645188	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
	Frequency (MHz)			3555	3624.99	3694.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.33	22.43	22.31	23.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.			
Channel									
	Frequency (MHz)			63600	64160	64532	Tune-up limit (dBm)	MPR (dB)	
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	58	22.37	22.50	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.46	22.54	22.43			
40	PB2 BPSK	50	8	22.35	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	26	22.47	22.58	22.52	23.5	0.0	
40	PB2 BPSK	50	26	22.38	22.48	22.39	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.50	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.59	22.50			
40	QPSK	1	58	22.28	22.36	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	8	22.18	22.24	22.30	23.5	0.0	
40	QPSK	50	26	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	26	22.16	22.17	22.30	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.16	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel									
	Frequency (MHz)			63734	64166	64500	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.33	22.41	22.31	23.5	0.0	
Channel									
	Frequency (MHz)			637188	64160	645188	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
	Frequency (MHz)			3555	3624.99	3694.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.33	22.43	22.31	23.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.82	20.03	20.11		
100	P12 BPSK	1	137	19.83	20.03	20.02	21.0	0.0
100	P12 BPSK	1	271	19.73	20.06	19.98		
100	P12 BPSK	135	9	19.72	20.03	19.93	21.0	0.0
100	P12 BPSK	135	89	19.82	20.11	20.08	21.0	0.0
100	P12 BPSK	135	138	19.72	20.03	19.97	21.0	0.0
100	P12 BPSK	270	9	19.78	20.08	20.03	21.0	0.0
100	QPSK	1	1	19.82	20.15	20.11		
100	QPSK	1	137	19.72	20.03	19.98	21.0	0.0
100	QPSK	1	271	19.73	20.05	19.98		
100	QPSK	135	9	19.78	20.15	20.04	21.0	0.0
100	QPSK	135	89	19.82	20.11	20.08	21.0	0.0
100	QPSK	135	138	19.82	20.09	19.84		
100	QPSK	270	9	19.82	20.07	20.04	21.0	0.0
100	HQAM	1	1	19.82	20.07	19.95	21.0	0.0
100	HQAM	1	137	19.82	20.05	19.98	21.0	0.0
100	HQAM	1	271	19.82	19.99	20.04		
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.82	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	20.09	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.74	20.10	20.06	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.73	20.11	20.04	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.72	20.15	20.03	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	20.07	19.99	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.73	20.09	19.94	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.73	19.99	19.95	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.72	20.10	19.96	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.78	20.07	19.99	21.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.48	22.63	22.76		
100	P12 BPSK	1	137	22.45	22.67	22.68	23.5	0.0
100	P12 BPSK	135	9	22.50	22.76	22.72	23.5	0.0
100	P12 BPSK	135	89	22.50	22.74	22.67	23.5	0.0
100	P12 BPSK	135	138	22.47	22.72	22.66	23.5	0.0
100	P12 BPSK	270	9	22.53	22.78	22.73	23.5	0.0
100	QPSK	1	1	22.49	22.80	22.80		
100	QPSK	1	137	22.49	22.73	22.89	23.5	0.0
100	QPSK	1	271	22.45	22.80	22.75		
100	QPSK	135	9	22.43	22.72	22.82	23.5	0.0
100	QPSK	135	89	22.54	22.80	22.76	23.5	0.0
100	QPSK	135	138	22.47	22.72	22.68	23.5	0.0
100	QPSK	270	9	22.54	22.80	22.75	23.5	0.0
100	HQAM	1	1	22.47	22.78	22.76	23.5	0.0
100	HQAM	1	137	22.53	22.79	22.85	23.5	0.0
100	HQAM	1	271	22.48	22.72	22.76	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.48	22.60	22.73	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.51	22.79	22.72	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.51	22.78	22.68	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.53	22.72	22.67	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.52	22.75	22.70	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.44	22.60	22.69	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.60	22.60	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.49	22.78	22.73	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.51	22.70	22.73	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.47	22.80	22.80	23.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.82	19.82	19.82		
100	P12 BPSK	1	137	19.80	19.80	19.80	21.0	0.0
100	P12 BPSK	135	9	19.76	19.76	19.76	21.0	0.0
100	P12 BPSK	135	89	19.80	19.80	19.80	21.0	0.0
100	P12 BPSK	135	138	19.76	19.76	19.76	21.0	0.0
100	P12 BPSK	270	9	19.78	19.78	19.78	21.0	0.0
100	QPSK	1	1	19.82	19.82	19.82		
100	QPSK	1	137	19.83	19.83	19.83	21.0	0.0
100	QPSK	1	271	19.82	19.82	19.82		
100	QPSK	135	9	19.81	19.81	19.81	21.0	0.0
100	QPSK	135	89	19.82	19.82	19.82	21.0	0.0
100	QPSK	135	138	19.82	19.82	19.82	21.0	0.0
100	QPSK	270	9	19.80	19.80	19.80	21.0	0.0
100	HQAM	1	1	19.82	19.82	19.82	21.0	0.0
100	HQAM	1	137	19.82	19.82	19.82	21.0	0.0
100	HQAM	1	271	19.82	19.82	19.82	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.87	19.88	19.48	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.80	19.82	19.80	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.47	19.53	19.49	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.60	19.55	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.53	19.50	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.56	19.53	19.53	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.48	19.50	19.48	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.56	19.61	19.52	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.56	19.61	19.52	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.48	19.53	19.50	21.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	83330	83330	83330		
100	PID BPSK	1	137	22.35			23.5	0.0
100	PID BPSK	1	271	22.33				
100	PID BPSK	155	0	22.31			23.5	0.0
100	PID BPSK	155	68	22.35			23.5	0.0
100	PID BPSK	155	138	22.33				
100	PID BPSK	270	0	22.33			23.5	0.0
100	QPSK	1	1	22.25				
100	QPSK	1	137	22.28			23.5	0.0
100	QPSK	1	271	22.26				
100	QPSK	155	0	22.33			23.5	0.0
100	QPSK	155	68	22.27				
100	QPSK	155	138	22.31			23.5	0.0
100	QPSK	270	0	22.23			23.5	0.0
100	16QAM	1	1	22.30			23.5	0.0
100	16QAM	1	137	22.28			23.5	0.0
100	16QAM	1	271	22.26				
100	16QAM	155	0	22.33			23.5	0.0
100	16QAM	155	68	22.27				
100	16QAM	155	138	22.31			23.5	0.0
100	16QAM	270	0	22.23			23.5	0.0
100	16QAM	1	1	22.28			23.5	0.0
100	16QAM	1	137	22.26				
Channel								
Frequency (MHz)								
96	QPSK	1	1	83500	83330	83396	Tune-up limit (dB)	MPR (dB)
96	QPSK	1	1	8462	8462	8462		
Channel								
Frequency (MHz)								
84	QPSK	1	1	84972	84972	84972		
Channel								
Frequency (MHz)								
76	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
36	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
26	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	84934	84934	84934	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
16	QPSK	1	1	22.31	22.28	22.21	23.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	8390	8390	8390		
100	PID BPSK	1	137	23.77	23.84	23.73	25.0	0.0
100	PID BPSK	1	271	23.80	23.90	23.77		
100	PID BPSK	155	0	23.82	23.82	23.81	25.0	0.0
100	PID BPSK	155	68	23.83	23.90	23.77	25.0	0.0
100	PID BPSK	155	138	23.79	23.88	23.76	25.0	0.0
100	PID BPSK	270	0	23.79	23.86	23.69	25.0	0.0
100	QPSK	1	1	23.72	24.13	24.12		
100	QPSK	1	137	23.74	23.79	23.80	25.0	0.0
100	QPSK	1	271	23.84	23.96	23.88		
100	QPSK	155	0	23.70	23.84	23.82	25.0	0.0
100	QPSK	155	68	23.83	23.88	23.81	25.0	0.0
100	QPSK	155	138	23.78	23.79	23.81	25.0	0.0
100	QPSK	270	0	23.78	23.80	23.80	25.0	0.0
100	16QAM	1	1	23.85	23.95	23.85	25.0	0.0
100	16QAM	1	137	23.70	23.85	23.70	25.0	0.0
100	16QAM	1	271	23.77	23.79	23.79	25.0	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	84898	85000	85232	Tune-up limit (dB)	MPR (dB)
96	QPSK	1	1	84632	84632	84632		
Channel								
Frequency (MHz)								
80	QPSK	1	1	84834	84834	84834	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
76	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
36	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
26	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	84796	84796	84796	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
16	QPSK	1	1	23.72	24.08	24.02	25.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	84000	84000	84000		
100	PID BPSK	1	137	26.41	26.67	26.59	27.5	0.0
100	PID BPSK	1	271	26.70	26.70	26.64		
100	PID BPSK	155	0	26.40	26.62	26.38	27.5	0.0
100	PID BPSK	155	68	26.43	26.68	26.56	27.5	0.0
100	PID BPSK	155	138	26.42	26.64	26.37	27.5	0.0
100	PID BPSK	270	0	26.38	26.57	26.35		
100	QPSK	1	1	26.39	26.62	26.41		
100	QPSK	1	137	26.40	26.69	26.64	27.5	0.0
100	QPSK	1	271	26.54	26.71	26.55		
100	QPSK	155	0	26.39	26.50	26.56	27.5	0.0
100	QPSK	155	68	26.31	26.60	26.51	27.5	0.0
100	QPSK	155	138	26.49	26.61	26.66	27.5	0.0
100	QPSK	270	0	26.39	26.61	26.61	27.5	0.0
100	16QAM	1	1	26.45	26.51	26.59	27.5	0.0
100	16QAM	1	137	26.41	26.46	26.53	27.5	0.0
100	16QAM	1	271	26.38	26.51	26.41	27.5	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	84842	84842	84842	Tune-up limit (dB)	MPR (dB)
96	QPSK	1	1	84576	84576	84576		
Channel								
Frequency (MHz)								
80	QPSK	1	1	84800	85000	85200	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	84534	84534	84534		
Channel								
Frequency (MHz)								
76	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
36	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
26	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	84496	84496	84496	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
16	QPSK	1	1	26.40	26.68	26.48	27.5	0.0









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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P1/2 BPSK	1	1	21.85	23.84	25.82		
100	P1/2 BPSK	1	137	23.77	25.84	27.13	25.0	0.0
100	P1/2 BPSK	1	271	23.85	25.83	27.77		
100	P1/2 BPSK	135	9	23.55	23.57	23.51	25.0	0.0
100	P1/2 BPSK	135	89	23.83	23.83	23.77	25.0	0.0
100	P1/2 BPSK	135	138	23.73	23.85	23.76	25.0	0.0
100	P1/2 BPSK	270	0	23.70	23.85	23.89	25.0	0.0
100	QPSK	1	1	21.83	23.13	24.14		
100	QPSK	1	137	23.74	23.79	23.82	25.0	0.0
100	QPSK	1	271	23.81	23.78	23.88		
100	QPSK	135	9	23.70	23.84	23.82	25.0	0.0
100	QPSK	135	89	23.81	23.85	23.81	25.0	0.0
100	QPSK	135	138	23.79	23.79	23.81	25.0	0.0
100	QPSK	270	0	23.64	23.82	23.81	25.0	0.0
100	HQAM	1	1	23.80	23.81	23.86	25.0	0.0
100	HQAM	1	137	23.76	23.85	23.75	25.0	0.0
100	HQAM	1	271	23.82	23.82	23.82	25.0	0.0
100	HQAM	135	9	23.80	23.80	23.80	25.0	0.0
100	HQAM	135	89	23.82	23.82	23.82	25.0	0.0
100	HQAM	135	138	23.80	23.80	23.80	25.0	0.0
100	HQAM	270	0	23.75	23.81	23.80	25.0	1.0
100	HQAM	1	1	23.85	23.81	23.79	25.0	1.0
100	HQAM	1	137	23.81	23.86	23.83	25.0	0.0
100	HQAM	1	271	23.88	23.81	23.84	25.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.82	24.07	24.02	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.73	24.03	24.03	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.78	24.01	23.98	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.76	23.77	23.68	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.75	23.94	23.94	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.74	24.02	24.07	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.73	23.90	23.93	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.72	24.03	24.03	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.71	24.02	23.98	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.72	24.08	24.02	25.0	0.0

### Par270 n77 HPUE\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P1/2 BPSK	1	1	26.70	26.76	26.82		
100	P1/2 BPSK	1	137	26.61	26.67	26.59	27.5	0.0
100	P1/2 BPSK	1	271	26.70	26.76	26.84		
100	P1/2 BPSK	135	9	26.66	26.55	26.36	27.5	0.0
100	P1/2 BPSK	135	89	26.83	26.88	26.96	27.5	0.0
100	P1/2 BPSK	135	138	26.82	26.88	26.87	27.5	0.0
100	P1/2 BPSK	270	0	26.59	26.37	26.30	27.5	0.0
100	QPSK	1	1	26.58	26.82	26.81		
100	QPSK	1	137	26.83	26.88	26.84	27.5	0.0
100	QPSK	1	271	26.54	26.72	26.52		
100	QPSK	135	9	25.78	25.92	25.96	27.5	0.0
100	QPSK	135	89	26.53	26.50	26.57	27.5	0.0
100	QPSK	135	138	26.89	26.81	26.88	27.5	0.0
100	QPSK	270	0	26.56	26.51	26.50	27.5	0.0
100	HQAM	1	1	26.55	26.51	26.79	27.5	1.0
100	HQAM	1	137	26.41	26.46	26.83	27.5	0.0
100	HQAM	1	271	26.58	27.51	27.44	27.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	26.82	26.72	26.53	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.81	26.69	26.52	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	26.81	26.68	26.51	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.58	26.69	26.48	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.58	26.62	26.52	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.56	26.73	26.48	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.56	26.63	26.50	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.54	26.69	26.53	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.56	26.72	26.48	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.55	26.68	26.48	27.5	0.0

### Par270 n77\_Ant 10

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P1/2 BPSK	1	1	23.58		23.58		
100	P1/2 BPSK	1	137			23.45	25.0	0.0
100	P1/2 BPSK	1	271			23.54		
100	P1/2 BPSK	135	9	23.56		23.36	25.0	0.0
100	P1/2 BPSK	135	89			23.47	25.0	0.0
100	P1/2 BPSK	135	138			23.48	25.0	0.0
100	P1/2 BPSK	270	0			23.47	25.0	0.0
100	QPSK	1	1	23.55				
100	QPSK	1	137			23.34	25.0	0.0
100	QPSK	1	271			23.64		
100	QPSK	135	9	23.52		23.47	25.0	0.0
100	QPSK	135	89			23.45	25.0	0.0
100	QPSK	135	138			23.44	25.0	0.0
100	QPSK	270	0			23.39	25.0	0.0
100	HQAM	1	1	23.52		23.32	25.0	0.0
100	HQAM	1	137			23.39	25.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.52	23.45	23.37	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.47	23.31	23.43	25.0	1.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.49	23.33	23.50	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.59	23.34	23.51	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.55	23.34	23.50	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.48	23.31	23.47	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.45	23.30	23.44	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.30	23.42	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.50	23.35	23.45	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.38	23.35	23.31	25.0	0.0



Par27Q n77 HPUE\_Ant 10

BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power Hgh. Ch. / Freq.	Tune-up time (min)	MPR (dB)
Channel								
Frequency (MHz)								
100	PL2 QPSK	1	1	26.22	26.22			
100	PL2 QPSK	1	137	26.23	26.23		27.5	0.0
100	PL2 QPSK	1	271	26.26	26.26			
100	PL2 QPSK	135	6	26.04	26.04		27.5	0.0
100	PL2 QPSK	135	69	26.21	26.21		27.5	0.0
100	PL2 QPSK	135	138	26.10	26.10		27.5	0.0
100	PL2 QPSK	270	0	26.09	26.09		27.5	0.0
100	QPSK	1	1	26.36	26.36			
100	QPSK	1	137	26.09	26.09		27.5	0.0
100	QPSK	1	271	26.36	26.36			
100	QPSK	135	6	26.57	26.57			
100	QPSK	135	69	26.51	26.51		27.5	0.0
100	QPSK	135	138	26.53	26.53			
100	QPSK	270	0	26.54	26.54		27.5	0.0
100	QPSK	1	1	26.44	26.44		27.5	0.0
100	HDQAM	1	1	26.06	26.06		27.5	0.0
100	HDQAM	1	1	26.06	26.06		27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83330	83360	Tune-up time (min)	MPR (dB)
				3465	3465.96	3466.92		
				26.25	26.24	26.26	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83295	83325	83355	Tune-up time (min)	MPR (dB)
				3460.00	3460.96	3461.92		
				26.29	26.31	26.31	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	83284	83312	83340	Tune-up time (min)	MPR (dB)
				82600	82632	82664		
				26.32	26.30	26.28	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83280	83308	83336	Tune-up time (min)	MPR (dB)
				3460	3460.96	3461.92		
				26.33	26.35	26.39	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83280	83308	83336	Tune-up time (min)	MPR (dB)
				3472.00	3472.96	3473.92		
				26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	83184	83332	83332	Tune-up time (min)	MPR (dB)
				3470.00	3469.96	3469.92		
				26.26	26.31	26.34	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	83100	83310	83310	Tune-up time (min)	MPR (dB)
				3465	3465.96	3465.92		
				26.33	26.33	26.27	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	83084	83312	83312	Tune-up time (min)	MPR (dB)
				3460	3460.96	3460.92		
				26.30	26.28	26.30	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	83080	83310	83310	Tune-up time (min)	MPR (dB)
				3460.00	3460.96	3460.92		
				26.33	26.33	26.34	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	83070	83310	83310	Tune-up time (min)	MPR (dB)
				3472.00	3472.96	3472.92		
				26.23	26.22	26.33	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	83054	83312	83312	Tune-up time (min)	MPR (dB)
				3460.00	3460.96	3460.92		
				26.31	26.31	26.33	27.5	0.0



State 8 Power

n2_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [372000]	Power Mid Ch. Freq. [376000]	Power High Ch. Freq. [380000]	MPR (dB)
Channel							
20	P16Q BPSK	1	1	22.31	22.30	22.31	0.0
20	P16Q BPSK	1	53	22.46	22.45	22.46	0.0
20	P16Q BPSK	1	104	22.30	22.29	22.30	0.0
20	P16Q BPSK	56	0	22.16	22.15	22.16	0.0
20	P16Q BPSK	56	28	22.30	22.29	22.30	0.0
20	P16Q BPSK	56	56	22.16	22.15	22.16	0.0
20	P16Q BPSK	100	0	22.32	22.30	22.32	0.0
20	QPSK	1	1	22.45	22.45	22.45	0.0
20	QPSK	1	53	22.37	22.33	22.32	0.0
20	QPSK	1	104	22.15	22.11	22.24	0.0
20	QPSK	56	0	22.20	22.24	22.33	0.0
20	QPSK	56	28	22.46	22.45	22.30	0.0
20	QPSK	56	56	22.20	22.20	22.28	0.0
20	16QAM	1	1	22.28	22.28	22.33	0.0
20	16QAM	1	1	22.46	22.46	22.46	0.0
20	16QAM	1	1	19.40	19.53	19.44	0.0
20	16QAM	1	1	19.54	19.53	19.53	0.0
Channel							
15	QPSK	1	1	18.73	18.80	18.73	0.0
15	QPSK	1	1	22.12	22.12	22.12	0.0
Channel							
10	QPSK	1	1	22.20	22.20	22.27	0.0
Channel							
5	QPSK	1	1	18.73	18.80	18.73	0.0
5	QPSK	1	1	22.12	22.12	22.12	0.0

n2_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [372000]	Power Mid Ch. Freq. [376000]	Power High Ch. Freq. [380000]	MPR (dB)
Channel							
20	P16Q BPSK	1	1	15.06	15.04	15.06	0.0
20	P16Q BPSK	1	53	15.06	15.07	15.04	0.0
20	P16Q BPSK	1	104	15.00	15.00	15.03	0.0
20	P16Q BPSK	56	0	15.06	15.00	15.07	0.0
20	P16Q BPSK	56	28	15.03	15.02	15.05	0.0
20	P16Q BPSK	56	56	15.06	15.00	15.05	0.0
20	P16Q BPSK	100	0	15.09	15.02	15.02	0.0
20	QPSK	1	1	15.05	15.00	15.04	0.0
20	QPSK	1	53	15.07	15.03	15.07	0.0
20	QPSK	1	104	15.01	15.00	15.00	0.0
20	QPSK	56	0	15.06	15.08	15.07	0.0
20	QPSK	56	28	15.03	15.00	15.00	0.0
20	QPSK	56	56	15.06	15.00	15.06	0.0
20	16QAM	1	1	15.01	15.00	15.00	0.0
20	16QAM	1	1	15.01	15.01	15.00	0.0
20	16QAM	1	1	15.02	15.01	15.00	0.0
20	16QAM	1	1	15.02	15.01	15.00	0.0
Channel							
15	QPSK	1	1	15.03	15.00	15.03	0.0
15	QPSK	1	1	15.03	15.03	15.03	0.0
Channel							
10	QPSK	1	1	15.04	15.03	15.03	0.0
Channel							
5	QPSK	1	1	15.03	15.00	15.03	0.0
5	QPSK	1	1	15.03	15.03	15.03	0.0

n2_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [372000]	Power Mid Ch. Freq. [376000]	Power High Ch. Freq. [380000]	MPR (dB)
Channel							
20	P16Q BPSK	1	1	20.87	20.88	20.87	0.0
20	P16Q BPSK	1	53	20.85	20.87	20.87	0.0
20	P16Q BPSK	1	104	20.88	20.87	20.84	0.0
20	P16Q BPSK	56	0	20.81	20.85	20.82	0.0
20	P16Q BPSK	56	28	20.80	20.84	20.86	0.0
20	P16Q BPSK	56	56	20.81	20.85	20.82	0.0
20	P16Q BPSK	100	0	20.86	20.83	20.85	0.0
20	QPSK	1	1	20.82	20.80	20.82	0.0
20	QPSK	1	53	20.87	20.85	20.78	0.0
20	QPSK	1	104	20.80	20.83	20.78	0.0
20	QPSK	56	0	20.86	20.83	20.78	0.0
20	QPSK	56	28	20.83	20.80	20.80	0.0
20	QPSK	56	56	20.87	20.86	20.86	0.0
20	16QAM	1	1	20.82	20.83	20.80	0.0
20	16QAM	1	1	20.87	20.85	20.85	0.0
20	16QAM	1	1	20.87	20.85	20.85	0.0
20	16QAM	1	1	20.87	20.85	20.85	0.0
20	16QAM	1	1	18.28	18.33	18.22	0.0
20	16QAM	1	1	18.37	18.30	18.25	0.0
Channel							
15	QPSK	1	1	20.82	20.82	20.82	0.0
15	QPSK	1	1	20.80	20.80	20.80	0.0
Channel							
10	QPSK	1	1	20.80	20.84	20.82	0.0
Channel							
5	QPSK	1	1	20.82	20.80	20.82	0.0
5	QPSK	1	1	20.82	20.82	20.82	0.0



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	PWQ-BPSK	1	1	22.27	23.05	23.27	24.5	0.0	
Frequency (MHz)									
20	PWQ-BPSK	1	83	23.09	23.09	23.07	24.5	0.0	
20	PWQ-BPSK	1	104	23.24	23.05	23.07	24.5	0.0	
20	PWQ-BPSK	50	0	23.03	23.05	23.07	24.5	0.0	
20	PWQ-BPSK	50	25	23.03	23.05	23.08	24.5	0.0	
20	PWQ-BPSK	50	50	23.03	23.05	23.07	24.5	0.0	
20	PWQ-BPSK	100	0	23.24	23.05	23.05	24.5	0.0	
20	QPSK	1	1	23.15	23.15	23.15	24.5	0.0	
20	QPSK	1	53	23.22	23.02	23.05	24.5	0.0	
20	QPSK	1	104	23.24	23.03	23.05	24.5	0.0	
20	QPSK	50	0	23.02	23.05	23.08	24.5	0.0	
20	QPSK	50	25	23.02	23.13	23.10	24.5	0.0	
20	QPSK	50	50	23.03	23.03	23.03	24.5	0.0	
20	QPSK	100	0	23.06	23.13	23.05	24.5	0.0	
20	MSK-M	1	1	23.25	23.12	23.12	24.5	0.0	
20	MSK-M	1	1	23.16	23.28	23.15	24.5	1.0	
20	MSK-M	1	1	23.14	23.23	23.11	24.5	1.0	
Channel									
15	QPSK	1	1	18.93	18.93	18.93	24.5	1.0	
Frequency (MHz)									
15	QPSK	1	1	18.93	18.93	18.93	24.5	1.0	
Channel									
15	QPSK	1	1	18.92	18.92	18.92	24.5	1.0	
Frequency (MHz)									
15	QPSK	1	1	18.94	18.94	18.94	24.5	1.0	
Channel									
5	QPSK	1	1	18.93	18.93	18.93	24.5	1.0	
Frequency (MHz)									
5	QPSK	1	1	18.93	18.93	18.93	24.5	1.0	

n5_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
20	PWQ-BPSK	1	1	21.02	20.59	20.59	22.5	0.0	
Frequency (MHz)									
20	PWQ-BPSK	1	80	21.00	21.08	21.08	22.5	0.0	
20	PWQ-BPSK	1	104	21.01	21.00	20.59	22.5	0.0	
20	PWQ-BPSK	50	0	21.02	21.07	20.59	22.5	0.0	
20	PWQ-BPSK	50	25	21.02	21.07	21.03	22.5	0.0	
20	PWQ-BPSK	50	50	21.01	21.02	21.05	22.5	0.0	
20	PWQ-BPSK	100	0	20.84	21.01	20.59	22.5	0.0	
20	QPSK	1	1	21.01	21.01	21.01	22.5	0.0	
20	QPSK	1	53	21.04	21.08	21.05	22.5	0.0	
20	QPSK	1	104	20.95	21.05	21.03	22.5	0.0	
20	QPSK	50	0	21.00	20.59	21.08	22.5	0.0	
20	QPSK	50	25	21.00	21.11	21.05	22.5	0.0	
20	QPSK	50	50	20.84	21.04	20.59	22.5	0.0	
20	QPSK	100	0	21.03	21.08	21.05	22.5	0.0	
20	MSK-M	1	1	20.88	21.05	20.57	22.5	0.0	
20	MSK-M	1	1	21.02	21.00	21.02	22.5	0.0	
20	MSK-M	1	1	20.14	20.23	20.11	21.5	1.0	
Channel									
15	QPSK	1	1	18.15	18.15	18.15	24.5	1.0	
Frequency (MHz)									
15	QPSK	1	1	18.15	18.15	18.15	24.5	1.0	
Channel									
15	QPSK	1	1	18.16	18.16	18.16	24.5	1.0	
Frequency (MHz)									
15	QPSK	1	1	18.13	18.13	18.13	24.5	1.0	
Channel									
5	QPSK	1	1	18.15	18.15	18.15	24.5	1.0	
Frequency (MHz)									
5	QPSK	1	1	18.15	18.15	18.15	24.5	1.0	

n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Middle Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel									
40	PWQ-BPSK	1	1	23.78	23.80	23.88	25.0	0.0	
Frequency (MHz)									
40	PWQ-BPSK	1	108	23.70	23.52	23.80	25.0	0.0	
40	PWQ-BPSK	1	214	23.74	23.85	23.73	25.0	0.0	
40	PWQ-BPSK	108	0	23.57	23.52	23.70	24.5	0.5	
40	PWQ-BPSK	108	54	23.72	23.80	23.71	24.5	0.5	
40	PWQ-BPSK	108	108	23.74	23.70	23.74	24.5	0.5	
40	PWQ-BPSK	216	0	23.18	23.33	23.18	24.5	0.0	
40	QPSK	1	1	23.80	23.80	23.80	25.0	0.0	
40	QPSK	1	108	23.74	23.83	23.78	25.0	0.0	
40	QPSK	1	214	23.66	23.80	23.80	25.0	0.0	
40	QPSK	108	0	23.89	23.85	23.88	24.0	1.0	
40	QPSK	108	54	23.71	23.83	23.80	24.0	1.0	
40	QPSK	108	108	23.05	23.15	23.08	24.0	1.0	
40	MSK-M	1	1	23.86	23.83	23.80	24.0	1.0	
40	MSK-M	1	1	23.86	23.81	23.83	24.0	1.0	
40	MSK-M	1	1	23.41	23.56	23.44	23.5	2.5	
40	MSK-M	1	1	19.45	19.37	19.44	23.5	2.5	
Channel									
30	QPSK	1	1	23.15	23.15	23.15	24.5	1.0	
Frequency (MHz)									
30	QPSK	1	1	23.15	23.15	23.15	24.5	1.0	
Channel									
25	QPSK	1	1	23.15	23.15	23.15	24.5	1.0	
Frequency (MHz)									
25	QPSK	1	1	23.12	23.12	23.12	24.5	1.0	
Channel									
20	QPSK	1	1	23.15	23.15	23.15	24.5	1.0	
Frequency (MHz)									
20	QPSK	1	1	23.15	23.15	23.15	24.5	1.0	
Channel									
15	QPSK	1	1	23.05	23.04	23.04	24.5	1.0	
Frequency (MHz)									
15	QPSK	1	1	23.04	23.05	23.04	24.5	1.0	
Channel									
10	QPSK	1	1	23.14	23.15	23.14	24.5	1.0	
Frequency (MHz)									
10	QPSK	1	1	23.13	23.13	23.13	24.5	1.0	
Channel									
5	QPSK	1	1	23.13	23.13	23.13	24.5	1.0	
Frequency (MHz)									
5	QPSK	1	1	23.13	23.13	23.13	24.5	1.0	



### n7\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 30400	Mid Ch. Freq. 30500	High Ch. Freq. 30600		
Channel								
40	PUSC	1	1	14.70	14.81	14.77	16.0	0.0
Frequency (MHz)								
40	PUSC	1	108	14.71	14.79	14.82	16.0	0.0
40	PUSC	1	214	14.74	14.85	14.87	16.0	0.0
40	PUSC	108	0	14.80	14.88	14.83	16.0	0.0
40	PUSC	108	108	14.75	14.86	14.81	16.0	0.0
40	PUSC	216	0	14.70	14.79	14.86	16.0	0.0
40	QPSK	1	1	14.80	14.90	14.92	16.0	0.0
40	QPSK	1	108	14.73	14.86	14.77	16.0	0.0
40	QPSK	1	214	14.76	14.88	14.82	16.0	0.0
40	QPSK	108	0	14.78	14.85	14.85	16.0	0.0
40	QPSK	108	108	14.82	14.93	14.89	16.0	0.0
40	QPSK	108	108	14.71	14.86	14.77	16.0	0.0
40	QPSK	216	0	14.81	14.90	14.88	16.0	0.0
40	QPSK	216	0	14.70	14.85	14.81	16.0	0.0
40	MCSAM	1	1	14.70	14.85	14.76	16.0	0.0
40	MCSAM	1	1	14.70	14.85	14.82	16.0	0.0
40	MCSAM	1	1	14.70	14.85	14.87	16.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Mid Ch. Freq. 30500	Power High Ch. Freq. 30600	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	14.80	14.90	14.93	16.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Mid Ch. Freq. 30500	Power High Ch. Freq. 30600	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.92	14.85	14.99	16.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Mid Ch. Freq. 30500	Power High Ch. Freq. 30600	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	14.93	14.90	14.99	16.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Mid Ch. Freq. 30500	Power High Ch. Freq. 30600	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	14.84	14.84	14.84	16.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Mid Ch. Freq. 30500	Power High Ch. Freq. 30600	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	14.80	14.90	14.93	16.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 30400	Power Mid Ch. Freq. 30500	Power High Ch. Freq. 30600	Turn-up limit (dBm)	MPR (dB)
1	QPSK	1	1	14.80	14.83	14.80	16.0	0.0

### n12\_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid Ch. Freq. 141600	High Ch. Freq. 141700		
Channel								
16	PUSC	1	1	24.48	24.53	24.50	26.0	0.0
Frequency (MHz)								
16	PUSC	1	40	24.51	24.41	24.49	26.0	0.0
16	PUSC	1	77	24.38	24.47	24.45	26.0	0.0
16	PUSC	36	0	23.99	23.91	23.96	26.0	0.0
16	PUSC	36	36	24.42	24.43	24.40	26.0	0.0
16	PUSC	36	48	23.91	23.93	23.96	26.0	0.0
16	PUSC	72	0	23.84	23.93	23.90	26.0	0.0
16	QPSK	1	1	24.50	24.50	24.50	26.0	0.0
16	QPSK	1	40	24.42	24.53	24.44	26.0	0.0
16	QPSK	1	77	24.39	24.50	24.34	26.0	0.0
16	QPSK	36	0	23.48	23.53	23.57	26.0	1.0
16	QPSK	36	36	24.47	24.50	24.36	26.0	0.0
16	QPSK	36	48	23.48	23.58	23.40	26.0	1.0
16	QPSK	72	0	23.50	23.58	23.53	26.0	0.0
16	MCSAM	1	1	23.42	23.55	23.49	26.0	1.0
16	MCSAM	1	1	22.90	22.93	22.92	25.0	2.0
16	MCSAM	1	1	19.98	20.04	19.94	21.0	4.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Mid Ch. Freq. 141600	Power High Ch. Freq. 141700	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	24.42	24.44	24.42	26.0	1.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Mid Ch. Freq. 141600	Power High Ch. Freq. 141700	Turn-up limit (dBm)	MPR (dB)
1	QPSK	1	1	24.43	24.43	24.36	26.0	0.0

### n12\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 141500	Mid Ch. Freq. 141600	High Ch. Freq. 141700		
Channel								
16	PUSC	1	1	22.48	22.52	22.50	24.0	0.0
Frequency (MHz)								
16	PUSC	1	40	22.40	22.46	22.50	24.0	0.0
16	PUSC	1	77	22.48	22.42	22.43	24.0	0.0
16	PUSC	36	0	22.50	22.48	22.43	24.0	0.0
16	PUSC	36	36	22.49	22.49	22.37	24.0	0.0
16	PUSC	36	48	22.47	22.45	22.50	24.0	0.0
16	PUSC	72	0	22.43	22.53	22.40	24.0	0.0
16	QPSK	1	1	22.50	22.50	22.51	24.0	0.0
16	QPSK	1	40	22.47	22.52	22.41	24.0	0.0
16	QPSK	1	77	22.44	22.50	22.50	24.0	0.0
16	QPSK	36	0	22.45	22.53	22.39	24.0	0.0
16	QPSK	36	36	22.51	22.50	22.51	24.0	0.0
16	QPSK	36	48	22.48	22.42	22.43	24.0	0.0
16	QPSK	72	0	22.50	22.53	22.48	24.0	0.0
16	MCSAM	1	1	22.49	22.48	22.42	24.0	0.0
16	MCSAM	1	1	22.02	22.13	21.97	22.0	0.0
16	MCSAM	1	1	19.98	20.04	19.94	21.0	2.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Mid Ch. Freq. 141600	Power High Ch. Freq. 141700	Turn-up limit (dBm)	MPR (dB)
16	QPSK	1	1	22.40	22.45	22.37	24.0	0.0
Channel								
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch. Freq. 141500	Power Mid Ch. Freq. 141600	Power High Ch. Freq. 141700	Turn-up limit (dBm)	MPR (dB)
1	QPSK	1	1	22.44	22.47	22.38	24.0	0.0



n25_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up time (min)	MPR (dB)		
				Low Ch. Power (W)	Media Ch. Power (W)	High Ch. Power (W)				
Channel										
40	PWQ BPSK	1	1	23.00	23.02	23.05				
40	PWQ BPSK	1	108	22.91	22.94	22.95	23.5	0.0		
40	PWQ BPSK	1	214	22.88	22.93	22.95				
40	PWQ BPSK	108	0	22.91	22.92	22.92	23.5	0.0		
40	PWQ BPSK	108	54	22.95	22.98	22.92	23.5	0.0		
40	PWQ BPSK	108	108	22.91	22.96	22.92	23.5	0.0		
40	PWQ BPSK	216	0	22.95	22.93	22.93				
40	QPSK	1	1	23.02	23.03	23.03				
40	QPSK	1	108	22.95	22.95	22.95	23.5	0.0		
40	QPSK	1	214	22.96	22.92	22.95				
40	QPSK	108	0	22.95	22.97	22.94	23.5	0.0		
40	QPSK	108	54	23.00	23.02	23.00	23.5	0.0		
40	QPSK	108	108	22.95	22.92	22.94	23.5	0.0		
40	MSKAM	1	1	22.84	22.81	22.87	23.5	0.0		
40	MSKAM	1	1	22.86	22.82	22.82	23.5	0.0		
40	MSKAM	1	1	22.85	22.78	22.87	23.5	0.0		
Channel										
Frequency (MHz)				18.95	18.92	18.93	Turn-up time (min)	MPR (dB)		
18	QPSK	1	1	22.91	22.91	22.94	23.5	0.0		
Channel										
Frequency (MHz)				22.90	22.92	22.90	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	22.85	22.80	22.82	23.5	0.0		
Channel										
Frequency (MHz)				18.90	18.92	18.93	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	22.90	22.92	22.91	23.5	0.0		
Channel										
Frequency (MHz)				22.90	22.92	22.90	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	22.85	22.80	22.82	23.5	0.0		
Channel										
Frequency (MHz)				18.90	18.92	18.91	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	22.84	22.82	22.81	23.5	0.0		
Channel										
Frequency (MHz)				22.84	22.82	22.81	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	22.84	22.82	22.81	23.5	0.0		

n25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up time (min)	MPR (dB)		
				Low Ch. Power (W)	Media Ch. Power (W)	High Ch. Power (W)				
Channel										
40	PWQ BPSK	1	1	18.43	18.37	18.36				
40	PWQ BPSK	1	108	18.41	18.41	18.36	17.0	0.0		
40	PWQ BPSK	1	214	18.38	18.39	18.39				
40	PWQ BPSK	108	0	18.43	18.37	18.36	17.0	0.0		
40	PWQ BPSK	108	54	18.40	18.40	18.41	17.0	0.0		
40	PWQ BPSK	108	108	18.44	18.39	18.37	17.0	0.0		
40	PWQ BPSK	216	0	18.37	18.43	18.41				
40	QPSK	1	1	18.30	18.33	18.30				
40	QPSK	1	108	18.41	18.39	18.43	17.0	0.0		
40	QPSK	1	214	18.40	18.39	18.34				
40	QPSK	108	0	18.38	18.42	18.35	17.0	0.0		
40	QPSK	108	54	18.40	18.40	18.40	17.0	0.0		
40	QPSK	108	108	18.44	18.40	18.34	17.0	0.0		
40	MSKAM	1	1	18.38	18.43	18.39	17.0	0.0		
40	MSKAM	1	1	18.35	18.37	18.40	17.0	0.0		
40	MSKAM	1	1	18.40	18.40	18.40	17.0	0.0		
Channel										
Frequency (MHz)				18.95	18.92	18.93	Turn-up time (min)	MPR (dB)		
30	QPSK	1	1	18.39	18.44	18.37	17.0	0.0		
Channel										
Frequency (MHz)				22.90	22.90	22.90	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	18.45	18.40	18.39	17.0	0.0		
Channel										
Frequency (MHz)				18.90	18.92	18.93	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	18.40	18.40	18.39	17.0	0.0		
Channel										
Frequency (MHz)				22.90	22.90	22.90	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	18.34	18.43	18.40	17.0	0.0		
Channel										
Frequency (MHz)				18.90	18.92	18.91	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	18.30	18.47	18.42	17.0	0.0		
Channel										
Frequency (MHz)				22.90	22.90	22.90	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	18.43	18.40	18.43	17.0	0.0		

n25_Ant 7										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up time (min)	MPR (dB)		
				Low Ch. Power (W)	Media Ch. Power (W)	High Ch. Power (W)				
Channel										
40	PWQ BPSK	1	1	20.82	20.85	20.81				
40	PWQ BPSK	1	108	20.80	20.82	20.87	22.5	0.0		
40	PWQ BPSK	1	214	20.87	20.85	20.80				
40	PWQ BPSK	108	0	20.84	20.85	20.80	22.5	0.0		
40	PWQ BPSK	108	54	20.83	20.89	20.87	22.5	0.0		
40	PWQ BPSK	108	108	20.82	20.82	20.81	22.5	0.0		
40	PWQ BPSK	216	0	20.82	20.80	20.86				
40	QPSK	1	1	20.86	20.85	20.82				
40	QPSK	1	108	20.88	20.87	20.87	22.5	0.0		
40	QPSK	1	214	20.87	20.82	20.82				
40	QPSK	108	0	20.81	20.80	20.87	22.5	0.0		
40	QPSK	108	54	20.85	20.82	20.80	22.5	0.0		
40	QPSK	108	108	20.83	20.85	20.84	22.5	0.0		
40	MSKAM	1	1	20.82	20.80	20.80	22.5	0.0		
40	MSKAM	1	1	20.87	20.81	20.85	22.5	0.0		
40	MSKAM	1	1	20.81	20.80	20.80	22.5	0.0		
40	MSKAM	1	1	20.84	18.83	18.20	20.0	2.5		
Channel										
Frequency (MHz)				18.95	18.91	18.90	Turn-up time (min)	MPR (dB)		
30	QPSK	1	1	20.84	20.87	20.84	22.5	0.0		
Channel										
Frequency (MHz)				22.90	22.90	22.90	Turn-up time (min)	MPR (dB)		
25	QPSK	1	1	20.88	20.89	20.85	22.5	0.0		
Channel										
Frequency (MHz)				18.90	18.91	18.90	Turn-up time (min)	MPR (dB)		
20	QPSK	1	1	20.82	20.82	20.87	22.5	0.0		
Channel										
Frequency (MHz)				22.90	22.90	22.90	Turn-up time (min)	MPR (dB)		
15	QPSK	1	1	20.88	20.82	20.82	22.5	0.0		
Channel										
Frequency (MHz)				18.90	18.91	18.90	Turn-up time (min)	MPR (dB)		
10	QPSK	1	1	20.82	20.82	20.87	22.5	0.0		
Channel										
Frequency (MHz)				22.90	22.90	22.90	Turn-up time (min)	MPR (dB)		
5	QPSK	1	1	20.88	20.80	20.83	22.5	0.0		





n26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. 164400	Mid. Ch. Freq. 165000	High Ch. Freq. 165600			
Channel									
20	PSS-SSB	1	1	23.00	23.00	23.07			
Frequency (MHz)									
20	PSS-SSB	1	83	23.00	23.13	23.07	24.5	0.0	
20	PSS-SSB	1	104	23.10	23.13	23.07			
20	PSS-SSB	50	0	23.10	23.00	23.04	24.5	0.0	
20	PSS-SSB	50	28	23.10	23.04	23.00	24.5	0.0	
20	PSS-SSB	50	56	23.00	23.00	23.00	24.5	0.0	
20	PSS-SSB	100	0	23.00	23.00	23.00			
20	QPSK	1	1	23.10	23.10	23.13			
20	QPSK	1	83	23.07	23.13	23.03	24.5	0.0	
20	QPSK	1	104	23.11	23.09	23.07			
20	QPSK	50	0	23.00	23.13	23.07	24.5	0.0	
20	QPSK	50	28	23.10	23.10	23.11	24.5	0.0	
20	QPSK	50	56	23.07	23.00	23.04	24.5	0.0	
20	QPSK	100	0	23.10	23.10	23.00			
20	16QAM	1	1	23.00	23.00	23.00	24.5	0.0	
20	16QAM	1	1	23.00	23.00	23.00	24.5	0.0	
20	256QAM	1	1	20.10	20.20	20.21	21.0	3.0	
Channel									
15	QPSK	1	1	18.10	18.10	18.10	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	18.10	18.10	18.10	24.5	0.0	
Channel									
10	QPSK	1	1	21.00	21.00	21.00	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	21.00	21.00	21.00	24.5	0.0	
Channel									
5	QPSK	1	1	18.10	18.10	18.10	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	21.00	21.00	21.00	24.5	0.0	

n26_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. 164400	Mid. Ch. Freq. 165000	High Ch. Freq. 165600			
Channel									
20	PSS-SSB	1	1	21.04	21.02	21.00			
Frequency (MHz)									
20	PSS-SSB	1	80	21.01	21.07	21.04	22.0	0.0	
20	PSS-SSB	1	104	21.02	21.11	21.07			
20	PSS-SSB	50	0	21.07	21.03	21.06	22.0	0.0	
20	PSS-SSB	50	28	21.09	21.08	21.03	22.0	0.0	
20	PSS-SSB	50	56	21.00	21.13	21.00	22.0	0.0	
20	PSS-SSB	100	0	21.00	21.08	21.07	22.0	0.0	
20	QPSK	1	1	21.10	21.00	21.10			
20	QPSK	1	80	21.02	21.13	21.03	22.0	0.0	
20	QPSK	1	104	21.04	21.00	21.04			
20	QPSK	50	0	20.99	21.11	21.08	22.0	0.0	
20	QPSK	50	28	21.10	21.00	21.10	22.0	0.0	
20	QPSK	50	56	21.08	21.09	21.00	22.0	0.0	
20	QPSK	100	0	21.10	21.10	21.00	22.0	0.0	
20	16QAM	1	1	21.00	21.07	21.08	22.0	0.0	
20	256QAM	1	1	21.00	21.00	21.00	22.0	0.0	
20	256QAM	1	1	20.04	20.10	20.11	21.0	1.0	
Channel									
15	QPSK	1	1	18.10	18.10	18.10	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	18.10	18.10	18.10	22.0	1.0	
Channel									
10	QPSK	1	1	21.00	21.00	21.00	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	21.00	21.00	21.00	22.0	0.0	
Channel									
5	QPSK	1	1	18.10	18.10	18.10	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	21.00	21.00	21.00	22.0	0.0	

n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. 164400	Mid. Ch. Freq. 165000	High Ch. Freq. 165600			
Channel									
20	PSS-SSB	1	1						
Frequency (MHz)									
20	PSS-SSB	1	28				18.0	0.0	
20	PSS-SSB	1	50						
20	PSS-SSB	20	0				18.0	0.0	
20	PSS-SSB	25	14				18.0	0.0	
20	PSS-SSB	20	27				18.0	0.0	
20	PSS-SSB	50	0				18.0	0.0	
20	QPSK	1	1						
20	QPSK	1	28				18.0	0.0	
20	QPSK	1	50						
20	QPSK	20	0				18.0	0.0	
20	QPSK	25	14				18.0	0.0	
20	QPSK	20	27				18.0	0.0	
20	QPSK	50	0				18.0	0.0	
20	16QAM	1	1				18.0	0.0	
20	16QAM	1	1				18.0	0.0	
20	256QAM	1	1				18.0	0.0	
Channel									
15	QPSK	1	1	18.10	18.10	18.10	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	18.10	18.10	18.10	22.0	0.0	
Channel									
10	QPSK	1	1	21.00	21.00	21.00	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	21.00	21.00	21.00	22.0	0.0	
Channel									
5	QPSK	1	1	18.10	18.10	18.10	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	21.00	21.00	21.00	22.0	0.0	



n30_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)								
10	PW-BPSK	1	1	18.71			18.0	0.0
10	PW-BPSK	1	26	18.71			18.0	0.0
10	PW-BPSK	1	50	18.82			18.0	0.0
10	PW-BPSK	25	0	18.82			18.0	0.0
10	PW-BPSK	25	14	18.82			18.0	0.0
10	PW-BPSK	25	27	18.82			18.0	0.0
10	PW-BPSK	50	0	18.84			18.0	0.0
10	QPSK	1	1	18.95			18.0	0.0
10	QPSK	1	26	18.95			18.0	0.0
10	QPSK	1	50	18.95			18.0	0.0
10	QPSK	25	0	18.95			18.0	0.0
10	QPSK	25	14	18.95			18.0	0.0
10	QPSK	25	27	18.95			18.0	0.0
10	QPSK	50	0	18.95			18.0	0.0
10	16QAM	1	1	19.07			18.0	0.0
10	16QAM	1	26	19.07			18.0	0.0
10	16QAM	1	50	19.17			18.0	0.0
10	16QAM	25	0	19.17			18.0	0.0
10	16QAM	25	14	19.17			18.0	0.0
10	16QAM	25	27	19.17			18.0	0.0
10	16QAM	50	0	19.17			18.0	0.0
Channel				18.71	18.82	18.95		
Frequency (MHz)				2077.5	2110	2132.5		
1	QPSK	1	1	18.71	18.82	18.95	18.0	0.0

n30_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	PW-BPSK	1	1	18.20			20.0	0.0
10	PW-BPSK	1	26	18.27			20.0	0.0
10	PW-BPSK	1	50	18.22			20.0	0.0
10	PW-BPSK	25	0	18.20			20.0	0.0
10	PW-BPSK	25	14	18.28			20.0	0.0
10	PW-BPSK	25	27	18.21			20.0	0.0
10	PW-BPSK	50	0	18.21			20.0	0.0
10	QPSK	1	1	18.30			20.0	0.0
10	QPSK	1	26	18.31			20.0	0.0
10	QPSK	1	50	18.29			20.0	0.0
10	QPSK	25	0	18.24			20.0	0.0
10	QPSK	25	14	18.33			20.0	0.0
10	QPSK	25	27	18.25			20.0	0.0
10	QPSK	50	0	18.31			20.0	0.0
10	16QAM	1	1	18.32			20.0	0.0
10	16QAM	1	26	18.39			20.0	0.0
10	16QAM	1	50	18.23			20.0	0.0
Channel				18.20	18.27	18.30		
Frequency (MHz)				2097.5	2110	2121.5		
1	QPSK	1	1	18.22	18.23	18.24	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								
Frequency (MHz)								
40	PW-BPSK	1	1	24.42	24.50	24.45		
40	PW-BPSK	1	108	24.50	24.41	24.54	25.0	0.0
40	PW-BPSK	1	214	24.35	24.43	24.34		
40	PW-BPSK	108	0	24.37	24.36	24.34	24.5	0.0
40	PW-BPSK	108	54	24.33	24.45	24.39	25.0	0.0
40	PW-BPSK	108	108	24.30	24.33	24.31	24.5	0.0
40	PW-BPSK	216	0	24.38	24.35	24.33	24.5	0.0
40	QPSK	1	1	24.45	24.53	24.48		
40	QPSK	1	108	24.31	24.45	24.35	25.0	0.0
40	QPSK	1	214	24.51	24.43	24.53		
40	QPSK	108	0	24.32	24.43	24.28	24.0	0.0
40	QPSK	108	54	24.31	24.36	24.30	25.0	0.0
40	QPSK	108	108	24.28	24.32	24.27	24.0	0.0
40	16QAM	1	1	24.52	24.36	24.50	24.0	0.0
40	16QAM	1	108	24.25	24.33	24.28	24.0	0.0
40	16QAM	1	214	24.40	24.30	24.37	24.5	0.0
40	16QAM	108	0	24.31	24.36	24.26	24.5	0.0
40	16QAM	108	54	24.30	24.35	24.25	24.5	0.0
40	16QAM	108	108	24.27	24.32	24.27	24.5	0.0
40	16QAM	216	0	24.34	24.34	24.34	24.5	0.0
Channel				24.42	24.45	24.48		
Frequency (MHz)				34500	34600	34650		
30	QPSK	1	1	24.37	24.35	24.37	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	24.29	24.47	24.41	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.30	24.45	24.34	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.29	24.43	24.33	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.30	24.45	24.41	25.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	24.34	24.48	24.34	25.0	0.0



n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Power (W)	Mid. Ch. Power (W)	High Ch. Power (W)			
Channel									
40	PSSB-SSB	1	1	18.30	18.48	18.38	17.0	0.0	
Frequency (MHz)									
40	PSSB-SSB	1	108	18.41	18.45	18.44	17.0	0.0	
40	PSSB-SSB	1	214	18.41	18.45	18.48	17.0	0.0	
40	PSSB-SSB	108	0	18.44	18.48	18.43	17.0	0.0	
40	PSSB-SSB	108	54	18.30	18.47	18.48	17.0	0.0	
40	PSSB-SSB	108	108	18.44	18.48	18.38	17.0	0.0	
40	PSSB-SSB	214	0	18.30	18.44	18.47	17.0	0.0	
40	QPSK	1	1	18.41	18.56	18.43	17.0	0.0	
40	QPSK	1	108	18.44	18.42	18.43	17.0	0.0	
40	QPSK	1	214	18.42	18.46	18.39	17.0	0.0	
40	QPSK	108	0	18.30	18.51	18.49	17.0	0.0	
40	QPSK	108	54	18.46	18.52	18.50	17.0	0.0	
40	QPSK	108	108	18.48	18.45	18.41	17.0	0.0	
40	QPSK	214	0	18.46	18.48	18.48	17.0	0.0	
40	16QAM	1	1	18.30	18.44	18.47	17.0	0.0	
40	16QAM	1	108	18.46	18.52	18.48	17.0	0.0	
40	16QAM	1	214	18.41	18.51	18.39	17.0	0.0	
Channel									
15	QPSK	1	1	17.20	17.40	17.60	Turn-up limit (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	108	17.20	17.40	17.60	Turn-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	18.44	18.41	18.40	Turn-up limit (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	108	17.20	17.40	17.70	Turn-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	18.30	18.44	18.37	Turn-up limit (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	108	17.20	17.40	17.70	Turn-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	17.10	17.40	17.40	Turn-up limit (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	108	17.10	17.40	17.70	Turn-up limit (dBm)	MPR	
Channel									
15	QPSK	1	1	18.40	18.51	18.41	Turn-up limit (dBm)	MPR	

n66_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Power (W)	Mid. Ch. Power (W)	High Ch. Power (W)			
Channel									
40	PSSB-SSB	1	1	22.88	22.92	22.83	24.0	0.0	
Frequency (MHz)									
40	PSSB-SSB	1	108	22.72	22.85	22.78	24.0	0.0	
40	PSSB-SSB	1	214	22.82	22.89	22.73	24.0	0.0	
40	PSSB-SSB	108	0	22.70	22.82	22.70	24.0	0.0	
40	PSSB-SSB	108	54	22.78	22.83	22.76	24.0	0.0	
40	PSSB-SSB	108	108	22.70	22.82	22.70	24.0	0.0	
40	PSSB-SSB	214	0	22.78	22.80	22.74	24.0	0.0	
40	QPSK	1	1	22.80	22.80	22.80	24.0	0.0	
40	QPSK	1	108	22.82	22.88	22.83	24.0	0.0	
40	QPSK	1	214	22.84	22.82	22.78	24.0	0.0	
40	QPSK	108	0	21.70	21.82	21.89	23.0	1.0	
40	QPSK	108	54	22.74	22.80	22.76	24.0	0.0	
40	QPSK	108	108	21.88	21.73	21.87	23.0	1.0	
40	QPSK	214	0	21.70	21.80	21.84	23.0	1.0	
40	16QAM	1	1	21.78	21.80	21.78	23.0	1.0	
40	16QAM	1	108	20.81	20.82	20.82	22.0	2.0	
40	16QAM	1	214	18.97	18.95	18.20	20.0	4.0	
Channel									
40	QPSK	1	1	17.20	17.40	17.60	Turn-up limit (dBm)	MPR	
Frequency (MHz)									
40	QPSK	1	108	17.20	17.40	17.60	Turn-up limit (dBm)	MPR	
Channel									
10	QPSK	1	1	22.80	22.82	22.82	24.0	0.0	
Frequency (MHz)									
10	QPSK	1	108	22.80	22.82	22.82	24.0	0.0	
Channel									
10	QPSK	1	1	22.80	22.82	22.82	24.0	0.0	
Frequency (MHz)									
10	QPSK	1	108	22.80	22.82	22.82	24.0	0.0	
Channel									
10	QPSK	1	1	22.81	22.84	22.83	24.0	0.0	
Frequency (MHz)									
10	QPSK	1	108	22.80	22.82	22.82	24.0	0.0	
Channel									
10	QPSK	1	1	22.80	22.82	22.82	24.0	0.0	
Frequency (MHz)									
10	QPSK	1	108	22.80	22.82	22.82	24.0	0.0	
Channel									
10	QPSK	1	1	22.80	22.82	22.82	24.0	0.0	

n71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	
				Low Ch. Power (W)	Mid. Ch. Power (W)	High Ch. Power (W)			
Channel									
20	PSSB-SSB	1	1	24.43	24.60	24.55	26.0	0.0	
Frequency (MHz)									
20	PSSB-SSB	1	30	23.97	24.40	24.40	26.0	0.0	
20	PSSB-SSB	1	104	24.33	24.52	24.47	26.0	0.0	
20	PSSB-SSB	30	0	23.70	24.00	23.91	25.0	0.5	
20	PSSB-SSB	30	24	24.30	24.54	24.44	26.0	0.0	
20	PSSB-SSB	30	56	23.70	23.97	23.91	25.0	0.5	
20	PSSB-SSB	100	0	23.82	24.05	23.88	25.0	0.5	
20	QPSK	1	1	24.40	24.53	24.50	26.0	0.0	
20	QPSK	1	30	24.48	24.53	24.40	26.0	0.0	
20	QPSK	1	104	24.40	24.50	24.51	26.0	0.0	
20	QPSK	30	0	23.49	23.59	23.43	26.0	1.0	
20	QPSK	30	24	24.40	24.54	24.50	26.0	0.0	
20	QPSK	30	56	23.42	23.58	23.49	25.0	1.0	
20	16QAM	1	1	23.42	23.50	23.50	25.0	1.0	
20	16QAM	1	104	21.64	21.80	21.70	23.0	2.0	
20	16QAM	1	1	19.73	19.83	19.72	23.0	4.0	
Channel									
10	QPSK	1	1	18.60	18.80	18.80	Turn-up limit (dBm)	MPR	
Frequency (MHz)									
10	PSSB-SSB	1	1	24.43	24.50	24.42	26.0	0.0	
Channel									
10	PSSB-SSB	1	1	24.43	24.50	24.51	26.0	0.0	
Frequency (MHz)									
10	PSSB-SSB	1	1	18.60	18.65	18.65	Turn-up limit (dBm)	MPR	
Channel									
10	PSSB-SSB	1	1	24.54	24.54	24.51	26.0	0.0	



n71_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Middle Ch. (dBm)	Power High Ch. (dBm)	Tx Power Limit (dBm)	APRS (dB)	
Channel									
Frequency (MHz)									
100	PCF-SFSSC	1	1	24.43	24.43	24.43			
100	PCF-SFSSC	1	50	24.37	24.40	24.40	26.0	0.5	
100	PCF-SFSSC	1	104	24.33	24.32	24.27			
100	PCF-SFSSC	50	0	23.79	24.05	23.95	26.0	0.5	
100	PCF-SFSSC	50	50	24.35	24.34	24.44	26.0	0.5	
100	PCF-SFSSC	50	50	23.79	23.97	23.95			
100	PCF-SFSSC	100	0	23.42	24.05	23.98	26.5	0.5	
100	QPSK	1	1	24.49	24.53	24.49			
100	QPSK	1	50	24.48	24.53	24.49	26.0	0.0	
100	QPSK	1	104	24.49	24.50	24.51			
100	QPSK	50	0	23.49	23.59	23.43	26.0	1.0	
100	QPSK	50	50	24.49	24.54	24.50	26.0	1.0	
100	QPSK	50	50	23.42	23.58	23.49			
100	QPSK	100	0	23.42	23.95	23.50	26.0	1.0	
100	16QAM	1	1	23.98	23.92	23.98	26.0	1.0	
100	16QAM	1	1	23.94	23.95	23.95			
100	256QAM	1	1	19.33	19.33	19.32	21.5	4.5	
Channel									
Frequency (MHz)									
10	PCF-SFSSC	1	1	89.15	89.15	89.15			
Channel									
Frequency (MHz)									
10	PCF-SFSSC	1	1	137.60	137.60	137.60			
Channel									
Frequency (MHz)									
10	PCF-SFSSC	1	1	24.43	24.43	24.43	26.0	0.5	
Channel									
Frequency (MHz)									
1	PCF-SFSSC	1	1	89.15	89.15	89.15	26.0	1.0	



n38_Ant 1									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	2177	2183	2174			
40	P12 BPSK	1	93	2179	2174	2178	22.5	0.0	
40	P12 BPSK	1	104	2183	2188	2189			
40	P12 BPSK	50	0	2179	2179	2179	22.5	0.0	
40	P12 BPSK	50	28	2179	2185	2179	22.5	0.0	
40	P12 BPSK	50	28	2183	2183	2179	22.5	0.0	
40	P12 BPSK	100	0	2179	2185	2179	22.5	0.0	
40	QPSK	1	1	2185	2180	2185			
40	QPSK	1	93	2179	2177	2178	22.5	0.0	
40	QPSK	1	104	2182	2179	2179			
40	QPSK	50	0	2179	2185	2179	22.5	0.0	
40	QPSK	50	28	2186	2188	2183	22.5	0.0	
40	QPSK	50	28	2179	2184	2179	22.5	0.0	
40	QPSK	100	0	2183	2185	2181	22.5	0.0	
40	12QAM	1	1	2175	2179	2179	22.5	0.0	
40	12QAM	50	56	2179	2184	2179	22.5	0.0	
40	25QAM	1	1	2175	2182	2171	22.5	0.0	
40	25QAM	1	1	1975	1984	1970	20.5	2.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1572	1584	1575	22.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	2174	2184	2179	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2172	2175	2176	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2077.51	2085	2072.49			
Channel									
Frequency (MHz)									
10	QPSK	1	1	2172	2182	2174	22.5	0.0	

n38_Ant 2									
BW (MHz)	Modulation	RB Size	Z.BIT	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	1584	1584	1579			
40	P12 BPSK	1	93	1585	1580	1577	16.5	0.0	
40	P12 BPSK	1	104	1582	1583	1584			
40	P12 BPSK	50	0	1585	1583	1577	16.5	0.0	
40	P12 BPSK	50	28	1581	1580	1584	16.5	0.0	
40	P12 BPSK	50	28	1585	1585	1584	16.5	0.0	
40	P12 BPSK	100	0	1585	1583	1577	16.5	0.0	
40	QPSK	1	1	1585	1588	1583			
40	QPSK	1	93	1579	1580	1579	16.5	0.0	
40	QPSK	1	104	1587	1582	1583			
40	QPSK	50	0	1585	1586	1579	16.5	0.0	
40	QPSK	50	28	1582	1585	1580	16.5	0.0	
40	QPSK	50	28	1585	1585	1586	16.5	0.0	
40	QPSK	100	0	1585	1583	1577	16.5	0.0	
40	12QAM	1	1	1589	1589	1577	16.5	0.0	
40	12QAM	50	56	1589	1586	1586	16.5	0.0	
40	25QAM	1	1	1583	1586	1578	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1579	1585	1583	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	1586	1586	1581	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	1579	1588	1579	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1580	1587	1578	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1581	1588	1581	16.5	0.0	

n41_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	2092	2101	2099			
100	P12 BPSK	1	197	2093	2100	2094	22.5	0.0	
100	P12 BPSK	1	271	2092	2095	2099			
100	P12 BPSK	195	0	2097	2098	2101	22.5	0.0	
100	P12 BPSK	195	66	2099	2098	2100	22.5	0.0	
100	P12 BPSK	195	139	2097	2098	2098	22.5	0.0	
100	P12 BPSK	270	0	2097	2098	2101	22.5	0.0	
100	QPSK	1	1	2101	2103	2108			
100	QPSK	1	197	2098	2097	2102	22.5	0.0	
100	QPSK	1	271	2098	2101	2098			
100	QPSK	195	0	2098	2102	2098	22.5	0.0	
100	QPSK	195	66	2100	2108	2105	22.5	0.0	
100	QPSK	195	139	2098	2102	2098	22.5	0.0	
100	QPSK	270	0	2098	2105	2102	22.5	0.0	
100	12QAM	1	1	2096	2103	2098	22.5	0.0	
100	12QAM	195	100	2094	2102	2095	22.5	0.0	
100	25QAM	1	1	2096	2105	2099	22.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2094	2104	2103	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2099	2099	2099	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2095	2097	2093	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2096	2092	2099	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2092	2099	2094	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2093	2100	2098	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2091	2092	2092	22.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	2092	2096	2092	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2098	2098	2097	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2093	2092	2092	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2098	2097	2101	22.5	0.0	



### n41\_HPUE\_Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.54	23.81	23.76	25.0	0.0
100	P12 BPSK	1	137	23.54	23.81	23.76	25.0	0.0
100	P12 BPSK	1	271	23.56	23.79	23.78	25.0	0.0
100	P12 BPSK	156	69	23.53	23.79	23.75	25.0	0.0
100	P12 BPSK	156	138	23.54	23.81	23.72	25.0	0.0
100	P12 BPSK	270	0	23.55	23.73	23.75	25.0	0.0
100	QPSK	1	1	23.65	23.88	23.83	25.0	0.0
100	QPSK	155	0	23.63	23.76	23.76	25.0	0.0
100	QPSK	155	69	23.83	23.85	23.81	25.0	0.0
100	QPSK	155	138	23.54	23.83	23.78	25.0	0.0
100	QPSK	270	0	23.82	23.83	23.80	25.0	0.0
100	TDMA	1	1	23.53	23.78	23.73	25.0	0.0
100	TDMA	1	1	23.55	23.87	23.87	25.0	0.0
100	25QAM	1	1	21.88	21.77	21.82	23.0	2.0
Frequency (MHz)								
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.60	23.93	23.91	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.51	23.83	23.72	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.67	23.72	23.69	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.58	23.78	23.69	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.51	23.79	23.77	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.84	23.83	23.87	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.55	23.72	23.72	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.58	23.75	23.71	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.82	23.80	23.79	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.52	23.76	23.72	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.49	23.79	23.76	25.0	0.0

### n41\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	14.88	15.09	15.06	16.5	0.0
100	P12 BPSK	1	137	14.88	15.09	15.04	16.5	0.0
100	P12 BPSK	1	271	15.00	14.89	14.88	16.5	0.0
100	P12 BPSK	156	0	15.00	15.07	15.01	16.5	0.0
100	P12 BPSK	156	69	15.01	15.08	15.08	16.5	0.0
100	P12 BPSK	156	138	15.05	15.05	15.04	16.5	0.0
100	P12 BPSK	270	0	15.03	15.01	15.01	16.5	0.0
100	QPSK	1	1	15.10	15.15	15.13	16.5	0.0
100	QPSK	1	137	15.05	15.09	15.04	16.5	0.0
100	QPSK	1	271	15.01	15.09	15.02	16.5	0.0
100	QPSK	155	0	15.05	15.07	15.06	16.5	0.0
100	QPSK	155	69	15.05	15.12	15.10	16.5	0.0
100	QPSK	155	138	15.05	15.05	15.05	16.5	0.0
100	QPSK	155	270	15.02	15.10	15.09	16.5	0.0
100	TDMA	1	1	14.86	15.05	15.05	16.5	0.0
100	TDMA	1	1	14.88	15.05	15.05	16.5	0.0
100	25QAM	1	1	14.88	15.05	15.05	16.5	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.03	15.03	15.03	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.04	15.04	15.05	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.95	15.03	15.08	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.06	15.09	15.09	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.94	15.02	15.02	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.04	15.00	14.97	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.01	15.05	15.04	16.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.99	15.02	15.02	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.94	15.05	14.99	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.03	15.02	15.01	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.95	14.92	14.92	16.5	0.0

### n41\_HPUE\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	17.55	17.84	17.76	19.0	0.0
100	P12 BPSK	1	137	17.52	17.74	17.71	19.0	0.0
100	P12 BPSK	1	271	17.63	17.80	17.80	19.0	0.0
100	P12 BPSK	156	0	17.61	17.81	17.79	19.0	0.0
100	P12 BPSK	156	69	17.63	17.78	17.72	19.0	0.0
100	P12 BPSK	156	138	17.65	17.85	17.79	19.0	0.0
100	P12 BPSK	270	0	17.54	17.82	17.78	19.0	0.0
100	QPSK	1	1	17.68	17.80	17.85	19.0	0.0
100	QPSK	1	137	17.61	17.76	17.80	19.0	0.0
100	QPSK	1	271	17.59	17.85	17.89	19.0	0.0
100	QPSK	155	0	17.63	17.76	17.80	19.0	0.0
100	QPSK	155	69	17.65	17.88	17.83	19.0	0.0
100	QPSK	155	138	17.59	17.80	17.76	19.0	0.0
100	QPSK	155	270	17.63	17.85	17.81	19.0	0.0
100	TDMA	1	1	17.59	17.70	17.75	19.0	0.0
100	TDMA	1	1	17.53	17.74	17.77	19.0	0.0
100	25QAM	1	1	17.52	17.83	17.78	19.0	0.0
Channel								
Frequency (MHz)								
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.53	17.75	17.74	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.55	17.74	17.70	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.62	17.82	17.71	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.56	17.80	17.80	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.57	17.82	17.73	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.63	17.77	17.77	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.55	17.80	17.72	19.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.55	17.77	17.74	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.59	17.82	17.74	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.55	17.81	17.71	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.52	17.84	17.73	19.0	0.0



### n41\_Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	18.29	18.51	18.66		
100	P12 BPSK	1	137	18.29	18.50	18.60	20.0	0.0
100	P12 BPSK	1	271	18.29	18.48	18.40		
100	P12 BPSK	155	9	18.29	18.55	18.62	20.0	0.0
100	P12 BPSK	155	69	18.29	18.55	18.47	20.0	0.0
100	P12 BPSK	155	138	18.29	18.53	18.55		
100	P12 BPSK	155	9	18.29	18.55	18.45	20.0	0.0
100	QPSK	1	1	18.43	18.60	18.56		
100	QPSK	1	137	18.29	18.52	18.46	20.0	0.0
100	QPSK	1	271	18.29	18.48	18.47		
100	QPSK	155	9	18.27	18.45	18.51		
100	QPSK	155	69	18.40	18.58	18.53	20.0	0.0
100	QPSK	155	138	18.29	18.51	18.42		
100	QPSK	270	9	18.29	18.53	18.51	20.0	0.0
100	12QAM	1	1	18.27	18.40	18.51	20.0	0.0
100	12QAM	1	1	18.29	18.45	18.50	20.0	0.0
100	25QAM	1	1	18.29	18.51	18.50	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.29	18.44	18.47	20.0	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	18.29	18.40	18.42	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.29	18.44	18.44	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.06	20.09	20.08		
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.06	20.09	20.09		
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.06	21.30	21.25	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.08	21.27	21.23	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.06	20.08	20.06		
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.07	21.06	21.23	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.06	21.06	21.23	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.06	20.08	20.06		
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.07	21.11	21.23	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.06	21.30	21.25	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.07	20.09	20.08		
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.07	20.09	20.08		

### n41\_HPUE\_Ant 8

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	20.07	21.33	21.19		
100	P12 BPSK	1	137	21.04	21.23	21.20	22.5	0.0
100	P12 BPSK	1	271	21.00	21.29	21.24		
100	P12 BPSK	155	9	20.06	21.21	21.20	22.5	0.0
100	P12 BPSK	155	69	21.06	21.29	21.22	22.5	0.0
100	P12 BPSK	155	138	21.05	21.29	21.27	22.5	0.0
100	P12 BPSK	270	9	20.09	21.33	21.24	22.5	0.0
100	QPSK	1	1	21.11	21.38	21.35		
100	QPSK	1	137	20.06	21.28	21.25	22.5	0.0
100	QPSK	1	271	21.06	21.30	21.21		
100	QPSK	155	9	21.03	21.30	21.24	22.5	0.0
100	QPSK	155	69	21.08	21.35	21.33	22.5	0.5
100	QPSK	155	138	21.07	21.35	21.32	22.5	0.5
100	QPSK	270	9	21.08	21.32	21.32	22.5	0.0
100	12QAM	1	1	20.08	21.29	21.20	22.5	0.0
100	12QAM	1	1	21.00	21.22	21.22	22.5	0.0
100	25QAM	1	1	20.08	21.30	21.24	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.09	21.04	21.27	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.08	21.29	21.29	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.06	21.30	21.25	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.08	20.09	20.08		
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.07	23.30	23.25	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.06	20.08	20.06		
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.07	21.06	21.23	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.06	21.06	21.23	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.06	20.08	20.06		
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.07	21.11	21.23	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.06	21.30	21.25	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.07	20.09	20.08		
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.07	20.09	20.08		

### n41\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	23.41	23.33	23.32		
100	P12 BPSK	1	137	23.33	23.45	23.43	25.0	0.0
100	P12 BPSK	1	271	23.30	23.37	23.38		
100	P12 BPSK	155	9	23.36	23.45	23.36	25.0	0.0
100	P12 BPSK	155	69	23.28	23.39	23.39	25.0	0.0
100	P12 BPSK	155	138	23.36	23.46	23.43	25.0	0.0
100	P12 BPSK	270	9	23.35	23.45	23.45	25.0	0.0
100	QPSK	1	1	23.45	23.39	23.35		
100	QPSK	1	137	23.35	23.42	23.41	25.0	0.0
100	QPSK	1	271	23.46	23.33	23.41		
100	QPSK	155	9	23.39	23.38	23.39		
100	QPSK	155	69	23.30	23.41	23.27	25.0	0.0
100	QPSK	155	138	23.42	23.42	23.42	25.0	0.0
100	QPSK	270	9	23.01	23.13	23.04	25.0	0.0
100	12QAM	1	1	23.48	23.33	23.39	25.0	0.0
100	12QAM	1	1	23.32	23.45	23.45	25.0	0.0
100	25QAM	1	1	23.48	23.32	23.35	25.0	2.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.33	23.49	23.42	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.36	23.54	23.48	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.36	23.52	23.48	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.37	23.53	23.42	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.37	23.51	23.44	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.35	23.53	23.44	25.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.35	23.41	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.53	23.44	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.35	23.43	23.47	25.0	0.0



n41_HPUE_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	28.12	28.24	28.10			
100	P12 BPSK	1	137	28.00	28.24	28.03	27.5	0.0	
100	P12 BPSK	1	271	28.27	28.38	28.25			
100	P12 BPSK	155	9	28.27	28.37	28.34	27.5	0.5	
100	P12 BPSK	155	69	28.13	28.18	28.08	27.5	0.0	
100	P12 BPSK	155	138	28.12	28.18	28.08	27.0	0.5	
100	P12 BPSK	155	207	28.03	28.38	28.05			
100	QPSK	1	1	28.10	28.38	28.33	27.5	0.0	
100	QPSK	1	137	28.03	28.31	28.08	27.5	0.0	
100	QPSK	1	271	28.21	28.29	28.11			
100	QPSK	155	9	28.27	28.29	28.34	28.5	1.0	
100	QPSK	155	69	28.04	28.09	28.08	27.5	0.0	
100	QPSK	155	138	28.10	28.20	28.07	26.5	1.0	
100	QPSK	155	207	28.09	28.28	28.05			
100	12QAM	1	1	28.00	28.16	28.05	27.5	0.0	
100	12QAM	1	1	28.05	28.07	28.07	27.5	0.5	
100	256QAM	1	1	21.63	21.77	21.62	27.5	0.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	32.53	32.57	32.57	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	32.58	32.47	32.58	27.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	28.58	28.16	28.03	27.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	30.28	30.09	30.08	27.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	28.04	28.11	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	30.00	30.00	30.00	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.19	28.02	27.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	28.00	28.17	28.05	27.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	28.00	28.17	28.04	27.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	28.00	28.08	28.06	27.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	28.00	28.08	28.06	27.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	28.00	28.09	28.06	27.5	0.0	

n48_Part96_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	22.46	22.53	22.42			
40	P12 BPSK	1	51	22.37	22.50	22.44	23.5	0.0	
40	P12 BPSK	1	104	22.46	22.54	22.43			
40	P12 BPSK	50	6	22.38	22.48	22.37	23.5	0.0	
40	P12 BPSK	50	28	22.47	22.58	22.52	23.5	0.0	
40	P12 BPSK	50	28	22.38	22.48	22.37	23.5	0.0	
40	P12 BPSK	100	0	22.31	22.50	22.38			
40	QPSK	1	1	22.35	22.50	22.50	23.5	0.0	
40	QPSK	1	51	22.28	22.38	22.47	23.5	0.0	
40	QPSK	1	104	22.33	22.54	22.45			
40	QPSK	50	6	22.18	22.50	22.32			
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	28	22.18	22.17	22.30			
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	12QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	12QAM	1	1	22.07	22.17	22.08	23.5	1.0	
40	256QAM	1	1	20.05	20.13	20.05	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	32.58	32.41	32.51	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	32.53	32.46	32.51	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	32.58	32.46	32.51	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	32.57	32.37	32.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	32.55	32.44	32.44	23.5	0.0	

n48_Part96_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	19.26	19.44	19.42			
40	P12 BPSK	1	51	19.17	19.52	19.43	20.5	0.0	
40	P12 BPSK	1	104	19.18	19.50	19.50			
40	P12 BPSK	50	6	19.22	19.51	19.45	20.5	0.0	
40	P12 BPSK	50	28	19.23	19.45	19.45	20.5	0.0	
40	P12 BPSK	50	28	19.22	19.46	19.46	20.5	0.0	
40	P12 BPSK	100	0	19.24	19.44	19.44			
40	QPSK	1	1	19.33	19.39	19.39	20.5	0.0	
40	QPSK	1	51	19.20	19.47	19.41	20.5	0.0	
40	QPSK	1	104	19.20	19.53	19.45			
40	QPSK	50	6	19.30	19.52	19.51			
40	QPSK	50	28	19.31	19.55	19.53	20.5	0.0	
40	QPSK	50	28	19.17	19.46	19.46			
40	QPSK	100	0	19.28	19.50	19.50	20.5	0.0	
40	12QAM	1	1	19.23	19.47	19.45	20.5	0.0	
40	12QAM	1	1	19.27	19.51	19.50	20.5	0.0	
40	256QAM	1	1	17.23	17.53	17.45	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	32.58	32.42	32.42	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	32.53	32.46	32.50	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	32.58	32.46	32.50	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	32.57	32.43	32.43	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	32.54	32.51	32.48	20.5	0.0	





n48_Part96_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	19.83	20.08	19.94			
40	PB2 BPSK	1	53	19.82	20.04	20.00	21.0	0.0	
40	PB2 BPSK	1	104	19.80	20.01	20.00			
40	PB2 BPSK	50	0	19.82	20.07	19.97	21.0	0.0	
40	PB2 BPSK	50	28	19.83	20.08	20.03	21.0	0.0	
40	PB2 BPSK	50	26	19.82	20.01	19.96	21.0	0.0	
40	PB2 BPSK	100	0	19.80	20.05	19.90	21.0	0.0	
40	QPSK	1	1	19.85	20.13	20.09			
40	QPSK	1	53	19.80	19.99	19.93	21.0	0.0	
40	QPSK	1	104	19.82	20.02	20.01			
40	QPSK	50	0	19.81	20.04	20.04			
40	QPSK	50	28	19.82	20.11	20.05	21.0	0.0	
40	QPSK	50	26	19.81	19.98	19.96	21.0	0.0	
40	QPSK	100	0	19.80	20.08	20.02	21.0	0.0	
40	16QAM	1	1	19.88	20.06	19.97	21.0	0.0	
40	16QAM	1	1	19.71	19.98	19.95	21.0	0.0	
40	256QAM	1	1	19.89	20.01	19.95	20.5	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.80	20.11	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.80	20.07	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.83	20.04	19.94	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.85	20.07	20.01	21.0	0.0	

n48_Part96_Ant 10									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	22.46	22.53	22.42			
40	PB2 BPSK	1	53	22.37	22.40	22.44	23.5	0.0	
40	PB2 BPSK	1	104	22.46	22.54	22.43			
40	PB2 BPSK	50	0	22.36	22.45	22.37	23.5	0.0	
40	PB2 BPSK	50	28	22.47	22.38	22.52	23.5	0.0	
40	PB2 BPSK	50	26	22.35	22.44	22.32	23.5	0.0	
40	PB2 BPSK	100	0	22.31	22.46	22.36	23.5	0.0	
40	QPSK	1	1	22.35	22.50	22.50			
40	QPSK	1	53	22.28	22.36	22.42	23.5	0.0	
40	QPSK	1	104	22.33	22.34	22.45			
40	QPSK	50	0	22.16	22.32	22.32			
40	QPSK	50	28	22.33	22.49	22.40	23.5	0.0	
40	QPSK	50	26	22.16	22.17	22.23	23.5	0.0	
40	QPSK	100	0	22.17	22.18	22.18	23.5	0.0	
40	16QAM	1	1	22.02	22.17	22.11	23.5	0.0	
40	16QAM	1	1	22.07	22.11	22.05	22.5	1.5	
40	256QAM	1	1	20.05	20.13	20.05	20.5	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.33	22.41	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.33	22.45	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.37	22.37	22.31	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.35	22.43	22.31	23.5	0.0	



Par270 n77\_Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.26	20.00	20.58		
100	PI2 BPSK	1	137	19.26	20.03	20.58	21.0	0.0
100	PI2 BPSK	1	271	19.26	20.06	19.99		
100	PI2 BPSK	135	6	19.26	20.07	20.00	21.0	0.0
100	PI2 BPSK	135	89	19.26	20.10	20.02	21.0	0.0
100	PI2 BPSK	135	138	19.27	20.04	20.00		
100	PI2 BPSK	270	0	19.26	20.02	20.03	21.0	0.0
100	QPSK	1	1	19.26	20.15	20.13		
100	QPSK	1	137	19.26	20.02	20.04	21.0	0.0
100	QPSK	1	271	19.26	20.03	20.05		
100	QPSK	135	6	19.26	20.15	20.11	21.0	0.0
100	QPSK	135	89	19.26	20.04	20.02		
100	QPSK	135	138	19.27	20.04	20.02		
100	QPSK	270	0	19.26	20.03	20.04	21.0	0.0
100	HQAM	1	1	19.26	20.02	20.04	21.0	0.0
100	HQAM	1	137	19.26	20.05	19.97	21.0	0.0
100	HQAM	1	271	19.26	20.10	19.95		
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.27	20.04	19.97	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.27	20.03	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.26	20.04	19.98	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.26	20.07	20.00	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.26	20.00	19.94	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.27	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.26	20.00	19.94	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.26	20.03	20.06	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.27	20.07	20.04	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.26	20.08	20.03	21.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.45	22.66	22.72		
100	PI2 BPSK	1	137	22.45	22.74	22.76	23.5	0.0
100	PI2 BPSK	135	6	22.45	22.80	22.76		
100	PI2 BPSK	135	89	22.45	22.78	22.80	23.5	0.0
100	PI2 BPSK	270	0	22.44	22.73	22.73	23.5	0.0
100	QPSK	1	1	22.58	22.86	22.86		
100	QPSK	1	137	22.52	22.89	22.71	23.5	0.0
100	QPSK	1	271	22.46	22.71	22.74		
100	QPSK	135	6	22.45	22.78	22.86		
100	QPSK	135	89	22.45	22.80	22.76	23.5	0.0
100	QPSK	135	138	22.46	22.74	22.76		
100	HQAM	1	1	22.42	22.78	22.76	23.5	0.0
100	HQAM	1	137	22.50	22.89	22.73	23.5	0.0
100	HQAM	1	271	22.46	22.81	22.41		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.51	22.69	22.74	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.49	22.74	22.65	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.49	22.76	22.66	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.52	22.78	22.70	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.53	22.70	22.70	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.52	22.71	22.74	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.44	22.73	22.69	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.44	22.71	22.65	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.50	22.71	22.76	23.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.26	20.00	20.58		
100	PI2 BPSK	1	137	19.26	20.03	20.58	21.0	0.0
100	PI2 BPSK	1	271	19.26	20.06	19.99		
100	PI2 BPSK	135	6	19.26	20.07	20.00	21.0	0.0
100	PI2 BPSK	135	89	19.26	20.10	20.02	21.0	0.0
100	PI2 BPSK	135	138	19.27	20.04	20.00		
100	PI2 BPSK	270	0	19.26	20.02	20.03	21.0	0.0
100	QPSK	1	1	19.26	20.15	20.13		
100	QPSK	1	137	19.26	20.02	20.04	21.0	0.0
100	QPSK	1	271	19.26	20.03	20.05		
100	QPSK	135	6	19.26	20.15	20.11	21.0	0.0
100	QPSK	135	89	19.26	20.04	20.02		
100	QPSK	135	138	19.27	20.04	20.02		
100	QPSK	270	0	19.26	20.03	20.04	21.0	0.0
100	HQAM	1	1	19.26	20.02	20.04	21.0	0.0
100	HQAM	1	137	19.26	20.05	19.97	21.0	0.0
100	HQAM	1	271	19.26	20.10	19.95		
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.27	20.04	19.97	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.27	20.03	20.04	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.26	20.04	19.98	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.26	20.07	20.00	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.26	20.00	19.94	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.27	20.05	20.04	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.26	20.00	19.94	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.26	20.03	20.06	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.27	20.07	20.04	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.26	20.08	20.03	21.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	22.29	22.29	22.29	23.5	0.0
100	PID BPSK	1	137	22.29	22.29	22.29	23.5	0.0
100	PID BPSK	1	271	22.29	22.29	22.29	23.5	0.0
100	PID BPSK	155	6	22.29	22.29	22.29	23.5	0.0
100	PID BPSK	155	138	22.29	22.29	22.29	23.5	0.0
100	PID BPSK	270	0	22.27	22.27	22.27	23.5	0.0
100	QPSK	1	1	22.28	22.28	22.28	23.5	0.0
100	QPSK	1	137	22.27	22.27	22.27	23.5	0.0
100	QPSK	1	271	22.28	22.28	22.28	23.5	0.0
100	QPSK	155	6	22.27	22.27	22.27	23.5	0.0
100	QPSK	155	138	22.27	22.27	22.27	23.5	0.0
100	QPSK	270	0	22.23	22.23	22.23	23.5	0.0
100	16QAM	1	1	22.23	22.23	22.23	23.5	0.0
100	16QAM	1	137	22.27	22.27	22.27	23.5	0.0
100	16QAM	1	271	22.23	22.23	22.23	23.5	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	83300	83300	83300	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
86	QPSK	1	1	340.02	340.02	340.02	23.5	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	340.02	340.02	340.02	23.5	0.0
Channel								
Frequency (MHz)								
76	QPSK	1	1	83300	83300	83300	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	340.02	340.02	340.02	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	340.02	340.02	340.02	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83300	83300	83300	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.25	22.22	22.21	23.5	0.0
Channel								
Frequency (MHz)								
36	QPSK	1	1	1465	1465	1465	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
26	QPSK	1	1	22.29	22.29	22.29	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.27	22.27	22.27	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1465	1465	1465	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
16	QPSK	1	1	22.28	22.28	22.28	23.5	0.0

Par27Q n77\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	21.92	21.92	21.92	22.0	0.0
100	PID BPSK	1	137	20.88	21.07	20.95	22.0	0.0
100	PID BPSK	1	271	20.88	21.06	21.05	22.0	0.0
100	PID BPSK	155	6	20.92	21.05	20.95	22.0	0.0
100	PID BPSK	155	138	20.92	21.06	21.02	22.0	0.0
100	PID BPSK	270	0	21.23	21.23	21.23	22.0	0.0
100	QPSK	1	1	21.23	21.23	21.23	22.0	0.0
100	QPSK	1	137	20.90	21.09	21.09	22.0	0.0
100	QPSK	1	271	20.90	21.07	21.07	22.0	0.0
100	QPSK	155	6	20.88	21.04	21.04	22.0	0.0
100	QPSK	155	138	21.23	21.23	21.23	22.0	0.0
100	QPSK	270	0	20.98	21.07	21.07	22.0	0.0
100	16QAM	1	1	20.98	21.08	21.08	22.0	0.0
100	16QAM	1	137	21.23	21.23	21.23	22.0	0.0
100	16QAM	1	271	20.91	21.10	21.10	22.0	0.0
100	16QAM	1	271	21.05	20.98	20.98	22.0	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	84800	84800	84800	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
86	QPSK	1	1	340.02	340.02	340.02	22.0	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	340.02	340.02	340.02	22.0	0.0
Channel								
Frequency (MHz)								
76	QPSK	1	1	84800	84800	84800	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	340.02	340.02	340.02	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	340.02	340.02	340.02	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	84800	84800	84800	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.88	21.09	20.99	22.0	0.0
Channel								
Frequency (MHz)								
36	QPSK	1	1	1465	1465	1465	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
26	QPSK	1	1	20.90	21.09	21.09	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.87	21.00	20.95	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1465	1465	1465	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
16	QPSK	1	1	20.90	21.07	20.94	22.0	0.0

Par27Q n77 HPUE\_Ant 9

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
100	PID BPSK	1	1	21.84	21.84	21.84	24.5	0.0
100	PID BPSK	1	137	21.24	21.24	21.24	24.5	0.0
100	PID BPSK	1	271	21.46	21.46	21.46	24.5	0.0
100	PID BPSK	155	6	21.28	21.30	21.30	24.5	0.0
100	PID BPSK	155	138	21.46	21.49	21.49	24.5	0.0
100	PID BPSK	270	0	21.51	21.51	21.51	24.5	0.0
100	QPSK	1	1	21.49	21.51	21.51	24.5	0.0
100	QPSK	1	137	21.40	21.71	21.73	24.5	0.0
100	QPSK	1	271	21.45	21.74	21.75	24.5	0.0
100	QPSK	155	6	21.28	21.31	21.31	24.5	0.0
100	QPSK	155	138	21.45	21.50	21.51	24.5	0.0
100	QPSK	270	0	21.52	21.52	21.52	24.5	0.0
100	16QAM	1	1	21.52	21.55	21.54	24.5	0.0
100	16QAM	1	137	21.46	21.80	21.80	24.5	0.0
100	16QAM	1	271	21.48	21.81	21.81	24.5	0.0
Channel								
Frequency (MHz)								
96	QPSK	1	1	21.50	21.70	21.71	24.5	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	340.02	340.02	340.02	24.5	0.0
Channel								
Frequency (MHz)								
86	QPSK	1	1	340.02	340.02	340.02	24.5	0.0
Channel								
Frequency (MHz)								
76	QPSK	1	1	84800	84800	84800	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	340.02	340.02	340.02	24.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	340.02	340.02	340.02	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	84800	84800	84800	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.40	21.73	21.74	24.5	0.0
Channel								
Frequency (MHz)								
36	QPSK	1	1	1465	1465	1465	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
26	QPSK	1	1	21.49	21.70	21.71	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.47	21.74	21.74	24.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1465	1465	1465	Time-up limit (dBm)	MRR (dB)
Channel								
Frequency (MHz)								
16	QPSK	1	1	21.53	21.71	21.65	24.5	0.0



Par27Q n77_Ant 9								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power Hg Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	23.22	23.22	23.22		
100	PB2 BPSK	1	137	23.24	23.24	23.24	22.0	0.0
100	PB2 BPSK	1	271	23.26	23.26	23.26		
100	PB2 BPSK	135	6	23.34	23.34	23.34	22.0	0.0
100	PB2 BPSK	135	69	23.36	23.36	23.36	22.0	0.0
100	PB2 BPSK	135	138	23.38	23.38	23.38	22.0	0.0
100	PB2 BPSK	270	9	23.46	23.46	23.46	22.0	0.0
100	QPSK	1	137	23.24	23.24	23.24	22.0	0.0
100	QPSK	1	271	23.26	23.26	23.26		
100	QPSK	135	6	23.34	23.34	23.34	22.0	0.0
100	QPSK	135	69	23.36	23.36	23.36	22.0	0.0
100	QPSK	135	138	23.38	23.38	23.38	22.0	0.0
100	QPSK	270	9	23.46	23.46	23.46	22.0	0.0
100	HQAM	1	1	23.54	23.54	23.54	22.0	0.0
100	HQAM	1	1	23.57	23.57	23.57	22.0	0.0
100	HQAM	1	1	23.59	23.59	23.59	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	83300	83330	83360	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3485	3494.98	3504.99	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
80	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
70	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
60	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
50	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
40	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
30	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
25	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
20	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
15	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.52	20.52	20.52	22.0	0.0
10	QPSK	1	1	20.52	20.52	20.52	22.0	0.0

Par27Q n77 HPUE_Ant 9								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power Hg Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	83300	83330	83360		
100	PB2 BPSK	1	137	23.24	23.24	23.24	24.5	0.0
100	PB2 BPSK	1	271	23.26	23.26	23.26		
100	PB2 BPSK	135	6	23.34	23.34	23.34	24.5	0.0
100	PB2 BPSK	135	69	23.36	23.36	23.36	24.5	0.0
100	PB2 BPSK	135	138	23.38	23.38	23.38	24.5	0.0
100	PB2 BPSK	270	9	23.46	23.46	23.46	24.5	0.0
100	QPSK	1	137	23.24	23.24	23.24	24.5	0.0
100	QPSK	1	271	23.26	23.26	23.26		
100	QPSK	135	6	23.34	23.34	23.34	24.5	0.0
100	QPSK	135	69	23.36	23.36	23.36	24.5	0.0
100	QPSK	135	138	23.38	23.38	23.38	24.5	0.0
100	QPSK	270	9	23.46	23.46	23.46	24.5	0.0
100	HQAM	1	1	23.54	23.54	23.54	24.5	0.0
100	HQAM	1	1	23.57	23.57	23.57	24.5	0.0
100	HQAM	1	1	23.59	23.59	23.59	24.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	83300	83330	83360	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3485	3494.98	3504.99	24.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
80	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
70	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
60	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
50	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
40	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
30	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
25	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
20	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
15	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.27	23.27	23.27	24.5	0.0
10	QPSK	1	1	23.27	23.27	23.27	24.5	0.0

Par27Q n77_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power Hg Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PB2 BPSK	1	1	84800	84830	84860		
100	PB2 BPSK	1	137	18.37	18.37	18.37	20.5	0.0
100	PB2 BPSK	1	271	18.37	18.37	18.37		
100	PB2 BPSK	135	6	18.38	18.38	18.38	20.5	0.0
100	PB2 BPSK	135	69	18.39	18.39	18.39	20.5	0.0
100	PB2 BPSK	135	138	18.40	18.40	18.40	20.5	0.0
100	PB2 BPSK	270	9	18.41	18.41	18.41	20.5	0.0
100	QPSK	1	137	18.40	18.40	18.40	20.5	0.0
100	QPSK	1	271	18.38	18.38	18.38		
100	QPSK	135	6	18.38	18.38	18.38	20.5	0.0
100	QPSK	135	69	18.39	18.39	18.39	20.5	0.0
100	QPSK	135	138	18.40	18.40	18.40	20.5	0.0
100	QPSK	270	9	18.41	18.41	18.41	20.5	0.0
100	HQAM	1	1	18.52	18.52	18.52	20.5	0.0
100	HQAM	1	1	18.53	18.53	18.53	20.5	0.0
100	HQAM	1	1	18.54	18.54	18.54	20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	84800	84830	84860	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3545.02	3545.02	3545.02	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
80	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
70	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
60	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
50	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
40	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
30	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
25	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
20	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
15	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.39	18.39	18.39	20.5	0.0
10	QPSK	1	1	18.39	18.39	18.39	20.5	0.0



### Par270 n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.85	22.25	22.24		
100	P12 BPSK	1	137	22.05	22.22	22.28	23.0	0.0
100	P12 BPSK	1	271	22.05	22.20	22.28		
100	P12 BPSK	135	9	22.05	22.20	22.27	23.0	0.0
100	P12 BPSK	135	89	22.05	22.25	22.24	23.0	0.0
100	P12 BPSK	135	138	21.85	22.21	22.20		
100	P12 BPSK	270	9	22.05	22.20	22.19	23.0	0.0
100	QPSK	1	1	22.12	22.28	22.28		
100	QPSK	1	137	21.80	22.20	22.28	23.0	0.0
100	QPSK	1	271	22.05	22.22	22.21		
100	QPSK	135	9	21.85	22.25	22.21	23.0	0.0
100	QPSK	135	89	21.15	22.25	22.21		
100	QPSK	135	138	22.07	22.28	22.28		
100	QPSK	270	9	22.05	22.20	22.20	23.0	0.0
100	HDQAM	1	1	21.85	22.22	22.21	23.0	0.0
100	HDQAM	1	137	22.05	22.20	22.28	23.0	0.0
100	HDQAM	1	271	22.05	22.21	22.21		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.65	19.60	19.68	20.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.65	19.60	19.68	20.0	0.0

### Par27Q n77\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.20	19.20	19.20		
100	P12 BPSK	1	137	19.20	19.20	19.20	20.5	0.0
100	P12 BPSK	135	9	19.20	19.20	19.20	20.5	0.0
100	P12 BPSK	135	89	19.20	19.20	19.20	20.5	0.0
100	P12 BPSK	135	138	19.20	19.20	19.20	20.5	0.0
100	QPSK	1	1	19.20	19.20	19.20		
100	QPSK	1	137	19.20	19.20	19.20	20.5	0.0
100	QPSK	1	271	19.20	19.20	19.20		
100	QPSK	135	9	19.20	19.20	19.20	20.5	0.0
100	QPSK	135	89	19.20	19.20	19.20	20.5	0.0
100	QPSK	135	138	19.20	19.20	19.20	20.5	0.0
100	HDQAM	1	1	19.20	19.20	19.20	20.5	0.0
100	HDQAM	1	137	19.20	19.20	19.20	20.5	0.0
100	HDQAM	1	271	19.20	19.20	19.20	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.08	18.08	18.08	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.08	18.08	18.08	20.5	0.0

### Par27Q n77 HPUE\_Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	21.78	21.78	21.78		
100	P12 BPSK	1	137	21.78	21.78	21.78	23.0	0.0
100	P12 BPSK	135	9	21.78	21.78	21.78	23.0	0.0
100	P12 BPSK	135	89	21.78	21.78	21.78	23.0	0.0
100	P12 BPSK	135	138	21.78	21.78	21.78	23.0	0.0
100	QPSK	1	1	21.78	21.78	21.78		
100	QPSK	1	137	21.78	21.78	21.78	23.0	0.0
100	QPSK	1	271	21.78	21.78	21.78		
100	QPSK	135	9	21.78	21.78	21.78	23.0	0.0
100	QPSK	135	89	21.78	21.78	21.78	23.0	0.0
100	QPSK	135	138	21.78	21.78	21.78	23.0	0.0
100	HDQAM	1	1	21.78	21.78	21.78	23.0	0.0
100	HDQAM	1	137	21.78	21.78	21.78	23.0	0.0
100	HDQAM	1	271	21.78	21.78	21.78	23.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.77	21.81	21.78	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.77	21.81	21.78	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.78	21.85	21.78	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.81	21.79	21.78	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.78	21.78	21.78	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.83	21.79	21.80	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.77	21.78	21.78	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.79	21.76	21.78	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.72	21.79	21.78	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.72	21.85	21.78	23.0	0.0



Par270 n77\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency [MHz]								
100	PB BPSK	1	1	21.80	23.80	24.40	25.0	0.0
100	PB BPSK	1	137	23.77	25.44	25.73	26.0	0.0
100	PB BPSK	1	271	25.85	26.82	27.77	28.0	0.0
100	PB BPSK	135	9	26.50	26.87	26.81	26.0	0.0
100	PB BPSK	135	89	26.83	26.83	27.77	26.0	0.0
100	PB BPSK	135	138	27.51	26.87	23.76	26.0	0.0
100	PB BPSK	270	9	27.70	27.85	27.89	26.0	0.0
100	QPSK	1	1	21.81	23.79	24.14	25.0	0.0
100	QPSK	1	137	23.74	25.79	26.02	26.0	0.0
100	QPSK	1	271	25.81	26.78	27.58	28.0	0.0
100	QPSK	135	9	26.70	26.84	26.82	26.0	0.0
100	QPSK	135	89	26.81	26.81	27.77	26.0	0.0
100	QPSK	135	138	27.49	26.81	23.81	26.0	0.0
100	QPSK	270	9	27.71	27.86	27.90	26.0	0.0
100	HQAM	1	1	21.80	23.81	23.90	26.0	0.0
100	HQAM	1	137	23.76	25.80	26.04	26.0	0.0
100	HQAM	1	271	25.84	26.81	27.61	28.0	0.0
100	HQAM	135	89	26.84	26.84	27.77	26.0	0.0
100	HQAM	135	138	27.49	26.81	23.81	26.0	0.0
100	HQAM	270	9	27.70	27.85	27.89	26.0	0.0
100	HQAM	1	1	22.20	23.85	23.75	26.0	0.0
100	HQAM	1	137	24.27	25.81	26.10	26.0	0.0
Channel								
Frequency [MHz]								
90	QPSK	1	1	19.6500	19.8000	19.8500	20.0	0.0
Channel								
Frequency [MHz]								
80	QPSK	1	1	17.41	17.81	18.11	18.0	0.0
Channel								
Frequency [MHz]								
70	QPSK	1	1	15.17	15.57	15.87	16.0	0.0
Channel								
Frequency [MHz]								
60	QPSK	1	1	12.93	13.33	13.63	14.0	0.0
Channel								
Frequency [MHz]								
50	QPSK	1	1	10.69	11.09	11.39	11.5	0.0
Channel								
Frequency [MHz]								
40	QPSK	1	1	8.45	8.85	9.15	9.5	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	6.21	6.61	6.91	7.0	0.0
Channel								
Frequency [MHz]								
20	QPSK	1	1	3.97	4.37	4.67	5.0	0.0
Channel								
Frequency [MHz]								
15	QPSK	1	1	2.73	3.13	3.43	3.5	0.0
Channel								
Frequency [MHz]								
10	QPSK	1	1	1.49	1.89	2.19	2.0	0.0

Par270 n77 HPUE\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency [MHz]								
100	PB BPSK	1	1	26.70	26.76	26.82	27.5	0.0
100	PB BPSK	1	137	26.81	26.87	26.99	27.5	0.0
100	PB BPSK	135	9	26.50	26.55	26.36	27.0	0.0
100	PB BPSK	135	89	26.83	26.88	26.96	27.0	0.0
100	PB BPSK	135	138	26.82	26.49	26.27	27.0	0.0
100	QPSK	1	1	26.74	26.82	26.81	27.5	0.0
100	QPSK	1	137	26.83	26.88	26.84	27.5	0.0
100	QPSK	1	271	26.84	26.75	26.52	27.5	0.0
100	QPSK	135	9	26.76	26.92	26.96	27.0	0.0
100	QPSK	135	89	26.85	26.85	26.57	27.0	0.0
100	QPSK	135	138	26.89	26.81	26.88	27.0	0.0
100	QPSK	270	9	26.74	26.91	26.90	27.0	0.0
100	HQAM	1	1	26.55	26.91	26.79	26.5	1.0
100	HQAM	1	137	26.41	26.46	26.33	26.0	0.0
100	HQAM	1	271	26.58	26.61	26.41	26.0	0.0
Channel								
Frequency [MHz]								
80	QPSK	1	1	24.52	24.72	24.53	27.5	0.0
Channel								
Frequency [MHz]								
70	QPSK	1	1	22.31	22.67	22.52	27.5	0.0
Channel								
Frequency [MHz]								
60	QPSK	1	1	20.10	20.50	20.40	27.5	0.0
Channel								
Frequency [MHz]								
50	QPSK	1	1	17.89	18.39	18.24	27.5	0.0
Channel								
Frequency [MHz]								
40	QPSK	1	1	15.68	16.18	16.00	27.5	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	13.47	13.97	13.76	27.5	0.0
Channel								
Frequency [MHz]								
20	QPSK	1	1	11.26	11.76	11.52	27.5	0.0
Channel								
Frequency [MHz]								
15	QPSK	1	1	9.05	9.55	9.28	27.5	0.0
Channel								
Frequency [MHz]								
10	QPSK	1	1	6.84	7.34	7.04	27.5	0.0

Par270 n77\_Ant 10

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency [MHz]								
100	PB BPSK	1	1	21.80	23.80	24.40	25.0	0.0
100	PB BPSK	1	137	23.77	25.44	25.73	26.0	0.0
100	PB BPSK	1	271	25.85	26.82	27.77	28.0	0.0
100	PB BPSK	135	9	26.50	26.87	26.81	26.0	0.0
100	PB BPSK	135	89	26.83	26.83	27.77	26.0	0.0
100	PB BPSK	135	138	27.51	26.87	23.76	26.0	0.0
100	PB BPSK	270	9	27.70	27.85	27.89	26.0	0.0
100	QPSK	1	1	21.81	23.79	24.14	25.0	0.0
100	QPSK	1	137	23.74	25.79	26.02	26.0	0.0
100	QPSK	1	271	25.81	26.78	27.58	28.0	0.0
100	QPSK	135	9	26.70	26.84	26.82	26.0	0.0
100	QPSK	135	89	26.81	26.81	27.77	26.0	0.0
100	QPSK	135	138	27.49	26.81	23.81	26.0	0.0
100	QPSK	270	9	27.71	27.86	27.90	26.0	0.0
100	HQAM	1	1	21.80	23.81	23.90	26.0	0.0
100	HQAM	1	137	23.76	25.80	26.04	26.0	0.0
100	HQAM	1	271	25.84	26.81	27.61	28.0	0.0
100	HQAM	135	89	26.84	26.84	27.77	26.0	0.0
100	HQAM	135	138	27.49	26.81	23.81	26.0	0.0
100	HQAM	270	9	27.70	27.85	27.89	26.0	0.0
100	HQAM	1	1	22.20	23.85	23.75	26.0	0.0
100	HQAM	1	137	24.27	25.81	26.10	26.0	0.0
Channel								
Frequency [MHz]								
90	QPSK	1	1	19.6500	19.8000	19.8500	20.0	0.0
Channel								
Frequency [MHz]								
80	QPSK	1	1	17.41	17.81	18.11	18.0	0.0
Channel								
Frequency [MHz]								
70	QPSK	1	1	15.17	15.57	15.87	16.0	0.0
Channel								
Frequency [MHz]								
60	QPSK	1	1	12.93	13.33	13.63	14.0	0.0
Channel								
Frequency [MHz]								
50	QPSK	1	1	10.69	11.09	11.39	11.5	0.0
Channel								
Frequency [MHz]								
40	QPSK	1	1	8.45	8.85	9.15	9.5	0.0
Channel								
Frequency [MHz]								
30	QPSK	1	1	6.21	6.61	6.91	7.0	0.0
Channel								
Frequency [MHz]								
20	QPSK	1	1	3.97	4.37	4.67	5.0	0.0
Channel								
Frequency [MHz]								
15	QPSK	1	1	2.73	3.13	3.43	3.5	0.0
Channel								
Frequency [MHz]								
10	QPSK	1	1	1.49	1.89	2.19	2.0	0.0



Par27Q n77 HPUE\_Ant 10

BR [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power Hgh. Ch. / Freq.	Tune-up time (min)	HPUE (dB)
Channel								
Frequency (MHz)								
100	PL2 QPSK	1	1	26.22	26.22			
100	PL2 QPSK	1	137	26.23	26.23		27.5	0.0
100	PL2 QPSK	1	271	26.26	26.26			
100	PL2 QPSK	135	6	26.04	26.04		27.5	0.0
100	PL2 QPSK	135	69	26.21	26.21		27.5	0.0
100	PL2 QPSK	135	138	26.10	26.10		27.5	0.0
100	PL2 QPSK	270	0	26.09	26.09		27.5	0.0
100	QPSK	1	1	26.36	26.36			
100	QPSK	1	137	26.09	26.09		27.5	0.0
100	QPSK	1	271	26.36	26.36			
100	QPSK	135	6	26.57	26.57			
100	QPSK	135	69	26.51	26.51		27.5	0.0
100	QPSK	135	138	26.53	26.53			
100	QPSK	270	0	26.54	26.54		26.5	1.0
100	QPSK	1	1	26.44	26.44		26.5	1.0
100	HDQAM	1	1	26.06	26.06		26.0	2.5
100	HDQAM	1	1	21.05	21.05		26.0	2.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	83300	83330	83360	Tune-up time (min)	HPUE (dB)
				3465	3469.98	3474.97		
				26.25	26.24	26.26	27.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	83205	83235	83265	Tune-up time (min)	HPUE (dB)
				3460.02	3464.98	3469.97		
				26.29	26.31	26.31	27.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	83284	83312	83342	Tune-up time (min)	HPUE (dB)
				82600	82632	82664		
				26.32	26.30	26.28	27.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	83000	83032	83064	Tune-up time (min)	HPUE (dB)
				3460	3464.98	3469.97		
				26.33	26.25	26.39	27.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	83166	83192	83218	Tune-up time (min)	HPUE (dB)
				3472.02	3474.98	3477.97		
				26.32	26.32	26.32	27.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	83134	83132	83132	Tune-up time (min)	HPUE (dB)
				3473.01	3469.98	3469.98		
				26.25	26.31	26.34	27.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	83100	83132	83164	Tune-up time (min)	HPUE (dB)
				3465	3469.98	3474.97		
				26.33	26.33	26.27	27.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	83054	83132	83132	Tune-up time (min)	HPUE (dB)
				3468.01	3474.98	3481.97		
				26.32	26.28	26.33	27.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	83008	83132	83160	Tune-up time (min)	HPUE (dB)
				3469.02	3469.98	3469		
				26.33	26.33	26.34	27.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	83000	83132	83160	Tune-up time (min)	HPUE (dB)
				3472.5	3473	3474.5		
				26.23	26.22	26.33	27.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	83034	83132	83132	Tune-up time (min)	HPUE (dB)
				3469.01	3469.98	3469.98		
				26.31	26.31	26.33	27.5	0.0



n41_Ant 1									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	20.48	20.53	20.55			
100	QPSK	1	137	20.58	20.57	20.59	22.0	0.0	
100	QPSK	1	271	20.58	20.49	20.25			
100	QPSK	137	8	20.53	20.28	20.25			
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	273	8	20.52	20.41	20.34			
100	QPSK	273	8	20.52	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.53	20.40	20.38	22.0	0.0	
100	16QAM	1	1	20.53	20.34	20.38	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.33	20.37	20.45	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.25	20.40	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.28	20.39	20.38	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.31	20.39	20.38	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.28	20.41	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	

UL MIMO Mode_Full Power									
n41_HPUE_Ant 1									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	23.45	23.59	23.55			
100	QPSK	1	137	23.58	23.40	23.26	24.5	0.0	
100	QPSK	1	271	23.48	23.53	23.41			
100	QPSK	137	8	23.22	23.38	23.32	24.5	0.0	
100	QPSK	137	68	23.35	23.46	23.32	24.5	0.0	
100	QPSK	137	196	23.32	23.46	23.34			
100	QPSK	273	8	23.31	23.43	23.34	24.5	0.0	
100	16QAM	1	1	23.48	23.53	23.39	24.5	0.0	
100	16QAM	1	1	23.15	23.30	23.23	24.5	0.0	
100	256QAM	1	1	20.98	20.92	20.85	23.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.29	23.49	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.35	23.54	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.29	23.51	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.32	23.53	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.49	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.23	23.71	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 2									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	20.48	20.53	20.55			
100	QPSK	1	137	20.58	20.57	20.59	22.0	0.0	
100	QPSK	1	271	20.38	20.48	20.25			
100	QPSK	137	8	20.53	20.28	20.25			
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	137	196	20.42	20.41	20.34			
100	QPSK	273	8	20.52	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.53	20.40	20.38	22.0	0.0	
100	16QAM	1	1	20.53	20.34	20.38	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.33	20.37	20.45	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.29	20.40	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.28	20.39	20.38	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.31	20.39	20.38	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.28	20.41	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	





n41_HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	23.45	23.30	23.55			
100	QPSK	1	137	23.35	23.40	23.25			
100	QPSK	1	271	23.46	23.53	23.41			
100	QPSK	1	405	23.52	23.38	23.32	24.5	0.0	
100	QPSK	1	539	23.38	23.48	23.32	24.5	0.0	
100	QPSK	1	673	23.31	23.43	23.34	24.5	0.0	
100	TDMA	1	1	23.48	23.53	23.39	24.5	0.0	
100	TDMA	1	1	23.35	23.30	23.23	24.5	0.0	
100	25GDM	1	1	20.86	20.92	20.85	23.5	1.0	
80	QPSK	1	1	23.59	23.49	23.43	24.5	0.0	
80	QPSK	1	1	23.39	23.54	23.45	24.5	0.0	
80	QPSK	1	1	23.36	23.54	23.46	24.5	0.0	
80	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
60	QPSK	1	1	23.30	23.51	23.43	24.5	0.0	
50	QPSK	1	1	23.35	23.54	23.46	24.5	0.0	
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
30	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
25	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	
20	QPSK	1	1	23.31	23.34	23.43	24.5	0.0	
15	QPSK	1	1	23.29	23.53	23.44	24.5	0.0	
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	20.46	20.53	20.50			
100	QPSK	1	137	20.38	20.31	20.30	22.0	0.0	
100	QPSK	1	271	20.38	20.48	20.25			
100	QPSK	1	405	20.70	20.20	20.22			
100	QPSK	1	539	20.44	20.48	20.39	22.0	0.0	
100	QPSK	1	673	20.32	20.48	20.48			
100	QPSK	1	807	20.32	20.43	20.25	22.0	0.0	
100	TDMA	1	1	20.33	20.45	20.26	22.0	0.0	
100	TDMA	1	1	20.30	20.34	20.38	22.0	0.0	
100	25GDM	1	1	20.24	20.38	20.29	22.0	0.0	
80	QPSK	1	1	20.33	20.32	20.42	22.0	0.0	
80	QPSK	1	1	20.25	20.45	20.35	22.0	0.0	
80	QPSK	1	1	20.25	20.45	20.35	22.0	0.0	
80	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
60	QPSK	1	1	20.33	20.41	20.43	22.0	0.0	
50	QPSK	1	1	20.32	20.42	20.45	22.0	0.0	
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
30	QPSK	1	1	20.32	20.42	20.43	22.0	0.0	
25	QPSK	1	1	20.32	20.42	20.44	22.0	0.0	
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
15	QPSK	1	1	20.29	20.44	20.41	22.0	0.0	
10	QPSK	1	1	20.27	20.43	20.43	22.0	0.0	

n41_HPUE_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	23.45	23.50	23.55			
100	QPSK	1	137	23.35	23.40	23.25			
100	QPSK	1	271	23.46	23.53	23.41			
100	QPSK	1	405	23.52	23.38	23.32	24.5	0.0	
100	QPSK	1	539	23.38	23.48	23.32	24.5	0.0	
100	QPSK	1	673	23.31	23.43	23.34	24.5	0.0	
100	TDMA	1	1	23.48	23.53	23.39	24.5	0.0	
100	TDMA	1	1	23.35	23.30	23.23	24.5	0.0	
100	25GDM	1	1	20.88	20.92	20.85	23.5	1.0	
80	QPSK	1	1	23.59	23.49	23.43	24.5	0.0	
80	QPSK	1	1	23.39	23.54	23.45	24.5	0.0	
80	QPSK	1	1	23.36	23.54	23.46	24.5	0.0	
80	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
60	QPSK	1	1	23.30	23.51	23.43	24.5	0.0	
50	QPSK	1	1	23.35	23.54	23.46	24.5	0.0	
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
30	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
25	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	
20	QPSK	1	1	23.31	23.34	23.43	24.5	0.0	
15	QPSK	1	1	23.32	23.53	23.44	24.5	0.0	
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	



n41_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.46	20.53	20.50	
100	QPSK	1	137	20.38	20.37	20.30	22.0
100	QPSK	1	271	20.38	20.48	20.25	
100	QPSK	137	8	20.31	20.28	20.22	
100	QPSK	137	88	20.44	20.48	20.39	22.0
100	QPSK	137	196	20.41	20.48	20.48	
100	QPSK	273	8	20.50	20.43	20.25	22.0
100	16QAM	1	1	20.33	20.40	20.38	22.0
100	16QAM	1	1	20.30	20.34	20.38	22.0
100	256QAM	1	1	20.24	20.38	20.39	22.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.23	20.37	20.46	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.29	20.40	20.39	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.31	20.41	20.42	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.23	20.41	20.43	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.42	20.48	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.35	20.41	20.39	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.23	20.40	20.44	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.29	20.40	20.42	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.29	20.45	20.40	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.23	20.41	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.27	20.43	20.43	22.0

n41_HPUE_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	23.45	23.30	23.35	
100	QPSK	1	137	23.35	23.40	23.28	24.5
100	QPSK	1	271	23.48	23.53	23.41	
100	QPSK	137	8	23.22	23.38	23.32	24.5
100	QPSK	137	88	23.38	23.48	23.32	24.5
100	QPSK	137	196	23.42	23.48	23.34	
100	QPSK	273	8	23.31	23.43	23.34	24.5
100	16QAM	1	1	23.48	23.53	23.39	24.5
100	16QAM	1	1	23.35	23.30	23.23	24.5
100	256QAM	1	1	20.88	20.92	20.85	23.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.35	23.49	23.42	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.38	23.54	23.45	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.37	23.51	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.30	23.51	23.42	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.38	23.53	23.41	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.30	23.52	23.43	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.30	23.51	23.44	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.35	23.43	23.47	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.31	23.54	23.43	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.32	23.53	23.44	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.35	23.43	23.47	24.5



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	QPSK	1	1	20.48	20.53	20.55			
100	QPSK	1	137	20.58	20.57	20.59	22.0	0.0	
100	QPSK	1	271	20.58	20.49	20.25			
100	QPSK	137	0	20.53	20.28	20.25			
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	273	0	20.52	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.53	20.40	20.36	22.0	0.0	
100	16QAM	1	1	20.53	20.34	20.36	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
90	QPSK	1	137	20.33	20.27	20.48	22.0	0.0	
Channel									
80	QPSK	1	1	20.25	20.40	20.39	22.0	0.0	
Channel									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
60	QPSK	1	1	20.28	20.29	20.39	22.0	0.0	
Channel									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
40	QPSK	1	1	20.35	20.42	20.45	22.0	0.0	
Channel									
30	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
15	QPSK	1	1	20.29	20.41	20.41	22.0	0.0	
Channel									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	

UL MIMO Mode_State 6									
n41_HPUE_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	QPSK	1	1	23.45	23.59	23.55			
100	QPSK	1	137	23.58	23.40	23.26	24.5	0.0	
100	QPSK	1	271	23.48	23.53	23.41			
100	QPSK	137	0	23.22	23.38	23.32	24.5	0.0	
100	QPSK	137	68	23.35	23.46	23.32	24.5	0.0	
100	QPSK	273	0	23.31	23.43	23.34	24.5	0.0	
100	16QAM	1	1	23.48	23.53	23.39	24.5	0.0	
100	16QAM	1	1	23.15	23.30	23.23	24.5	0.0	
100	256QAM	1	1	20.98	20.99	20.85	23.5	1.0	
Channel									
90	QPSK	1	137	23.29	23.49	23.42	24.5	0.0	
Channel									
80	QPSK	1	1	23.38	23.54	23.48	24.5	0.0	
Channel									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
60	QPSK	1	1	23.29	23.51	23.42	24.5	0.0	
Channel									
50	QPSK	1	1	23.38	23.53	23.41	24.5	0.0	
Channel									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
30	QPSK	1	1	23.11	23.49	23.43	24.5	0.0	
Channel									
25	QPSK	1	1	23.23	23.71	23.44	24.5	0.0	
Channel									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0	
Channel									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
100	QPSK	1	1	14.96	15.03	15.01			
100	QPSK	1	137	14.79	14.82	14.86	16.5	0.0	
100	QPSK	1	271	14.87	14.91	14.96			
100	QPSK	137	0	14.87	15.02	14.83			
100	QPSK	137	68	14.83	15.02	14.87	16.5	0.0	
100	QPSK	273	0	14.78	14.86	14.81	16.5	0.0	
100	16QAM	1	1	14.86	14.96	14.85	16.5	0.0	
100	16QAM	1	1	14.78	14.89	14.81	16.5	0.0	
100	256QAM	1	1	14.88	14.93	14.85	16.5	0.0	
Channel									
90	QPSK	1	137	14.80	14.87	14.82	16.5	0.0	
Channel									
80	QPSK	1	1	14.88	14.90	14.89	16.5	0.0	
Channel									
70	QPSK	1	1	14.87	14.96	14.88	16.5	0.0	
Channel									
60	QPSK	1	1	14.79	14.92	14.82	16.5	0.0	
Channel									
50	QPSK	1	1	14.79	14.87	14.84	16.5	0.0	
Channel									
40	QPSK	1	1	14.84	14.91	14.95	16.5	0.0	
Channel									
30	QPSK	1	1	14.79	14.89	14.82	16.5	0.0	
Channel									
25	QPSK	1	1	14.74	14.93	14.83	16.5	0.0	
Channel									
20	QPSK	1	1	14.89	14.87	14.81	16.5	0.0	
Channel									
15	QPSK	1	1	14.81	14.88	14.86	16.5	0.0	
Channel									
10	QPSK	1	1	14.82	14.89	14.83	16.5	0.0	



n41_HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	18.92	18.12	18.98		19.0	0.0
Channel									
Frequency (MHz)									
100	QPSK	1	137	17.93	17.86	17.96			
100	QPSK	1	271	17.96	18.07	17.93			
100	QPSK	137	0	17.95	18.04	17.95		19.0	0.0
100	QPSK	137	68	18.92	18.10	18.92		19.0	0.0
100	QPSK	137	136	17.95	17.96	17.96		19.0	0.0
100	QPSK	273	0	17.96	18.08	18.03		19.0	0.0
100	TDMA	1	1	17.95	18.01	17.62		19.0	0.0
100	64QAM	1	1	17.95	17.95	17.95		19.0	0.0
100	256QAM	1	1	17.84	18.00	17.91		19.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.90	17.99	17.99		19.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.97	17.95	18.03		19.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.84	18.03	17.97		19.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.92	17.99	18.02		19.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.94	18.06	17.93		19.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.86	17.99	18.02		19.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.93	17.96	17.92		19.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.95	18.04	18.01		19.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.91	18.06	17.95		19.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.78	17.98	17.79		19.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.93	18.07	18.00		19.0	0.0

n41_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	20.46	20.53	20.50		22.0	0.0
100	QPSK	1	137	20.38	20.31	20.30			
100	QPSK	1	271	20.38	20.48	20.25			
100	QPSK	137	0	20.30	20.20	20.22		22.0	0.0
100	QPSK	137	68	20.44	20.48	20.39		22.0	0.0
100	QPSK	137	136	20.33	20.45	20.26		22.0	0.0
100	QPSK	273	0	20.33	20.43	20.25		22.0	0.0
100	TDMA	1	1	20.33	20.45	20.26		22.0	0.0
100	64QAM	1	1	20.30	20.34	20.36		22.0	0.0
100	256QAM	1	1	20.24	20.38	20.29		22.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.33	20.32	20.42		22.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.25	20.45	20.35		22.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42		22.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.33	20.41	20.43		22.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.30	20.42	20.45		22.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39		22.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.33	20.41	20.43		22.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.37	20.42	20.41		22.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40		22.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.33	20.44	20.41		22.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.27	20.43	20.43		22.0	0.0

n41_HPUE_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	23.45	23.50	23.55		24.5	0.0
100	QPSK	1	137	23.35	23.40	23.38			
100	QPSK	1	271	23.40	23.53	23.41			
100	QPSK	137	0	23.22	23.38	23.35		24.5	0.0
100	QPSK	137	68	23.38	23.48	23.32		24.5	0.0
100	QPSK	137	136	23.32	23.40	23.34		24.5	0.0
100	QPSK	273	0	23.31	23.43	23.34		24.5	0.0
100	TDMA	1	1	23.48	23.53	23.56		24.5	0.0
100	64QAM	1	1	23.35	23.37	23.33		24.5	0.0
100	256QAM	1	1	23.88	20.50	20.85		24.5	1.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.39	23.49	23.40		24.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.35	23.54	23.45		24.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44		24.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.30	23.51	23.42		24.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.33	23.53	23.41		24.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43		24.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.51	23.44		24.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.34	23.49	23.47		24.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43		24.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48		24.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47		24.5	0.0



n41_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.46	20.53	20.50	
100	QPSK	1	137	20.38	20.37	20.30	22.0
100	QPSK	1	271	20.38	20.48	20.25	
100	QPSK	137	8	20.31	20.28	20.22	
100	QPSK	137	88	20.44	20.43	20.39	22.0
100	QPSK	137	196	20.41	20.46	20.48	
100	QPSK	273	8	20.50	20.43	20.25	22.0
100	16QAM	1	1	20.33	20.40	20.28	22.0
100	16QAM	1	1	20.30	20.34	20.38	22.0
100	256QAM	1	1	20.24	20.38	20.39	22.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.23	20.37	20.46	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.29	20.40	20.39	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.31	20.41	20.42	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.23	20.41	20.43	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.42	20.45	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.35	20.41	20.39	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.23	20.40	20.44	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.29	20.40	20.42	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.29	20.45	20.40	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.23	20.41	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.27	20.43	20.43	22.0

n41_HPUE_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	23.45	23.30	23.35	
100	QPSK	1	137	23.35	23.40	23.28	24.5
100	QPSK	1	271	23.46	23.53	23.41	
100	QPSK	137	8	23.22	23.38	23.32	24.5
100	QPSK	137	88	23.35	23.46	23.32	24.5
100	QPSK	137	196	23.42	23.46	23.34	
100	QPSK	273	8	23.31	23.43	23.34	24.5
100	16QAM	1	1	23.48	23.53	23.39	24.5
100	16QAM	1	1	23.35	23.30	23.23	24.5
100	256QAM	1	1	20.86	20.92	20.85	23.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.35	23.49	23.42	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.36	23.54	23.45	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.37	23.51	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.30	23.51	23.42	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.36	23.53	23.41	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.30	23.52	23.43	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.30	23.51	23.44	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.35	23.43	23.47	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.31	23.54	23.43	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.32	23.53	23.44	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.35	23.43	23.47	24.5



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	20.48	20.53	20.55			
100	QPSK	1	137	20.58	20.57	20.59	22.0	0.0	
100	QPSK	1	271	20.58	20.49	20.25			
100	QPSK	137	0	20.53	20.28	20.25			
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	273	0	20.52	20.41	20.24			
100	QPSK	273	0	20.52	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.53	20.40	20.26	22.0	0.0	
100	16QAM	1	1	20.53	20.34	20.26	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.33	20.27	20.45	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.22	20.40	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.28	20.29	20.29	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.42	20.45	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.31	20.29	20.29	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.29	20.41	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	

UL MIMO Mode_State 7									
n41_HPUE_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	23.45	23.59	23.55			
100	QPSK	1	137	23.58	23.40	23.26	24.5	0.0	
100	QPSK	1	271	23.48	23.53	23.41			
100	QPSK	137	0	23.22	23.38	23.32	24.5	0.0	
100	QPSK	137	68	23.35	23.46	23.32	24.5	0.0	
100	QPSK	273	0	23.32	23.46	23.34			
100	QPSK	273	0	23.31	23.43	23.34	24.5	0.0	
100	16QAM	1	1	23.48	23.53	23.39	24.5	0.0	
100	16QAM	1	1	23.15	23.30	23.23	24.5	0.0	
100	256QAM	1	1	20.98	20.92	20.85	23.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	23.29	23.49	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.38	23.54	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.29	23.51	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.38	23.53	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.49	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.23	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	14.96	15.03	15.01			
100	QPSK	1	137	14.79	14.89	14.98	16.5	0.0	
100	QPSK	1	271	14.87	14.91	14.98			
100	QPSK	137	0	14.87	15.02	14.93			
100	QPSK	137	68	14.53	15.02	14.87	16.5	0.0	
100	QPSK	273	0	14.78	14.95	14.81			
100	QPSK	273	0	14.90	14.98	14.95	16.5	0.0	
100	16QAM	1	1	14.78	14.89	14.81	16.5	0.0	
100	16QAM	1	1	14.82	14.94	14.95	16.5	0.0	
100	256QAM	1	1	14.88	14.93	14.85	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	14.80	14.97	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.88	14.90	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.87	14.98	14.88	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.79	14.97	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.79	14.97	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.84	14.91	14.95	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.79	14.97	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.79	14.97	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.89	14.87	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.81	14.98	14.98	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82	14.99	14.93	16.5	0.0	



n41_HPUE_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	19.02	18.12	19.08			
Channel									
Frequency (MHz)									
100	QPSK	1	137	17.93	17.96	17.96			
100	QPSK	1	271	17.96	18.07	17.93			
100	QPSK	137	0	17.96	18.06	17.96	19.0	0.0	
100	QPSK	137	68	18.02	18.10	18.02	19.0	0.0	
100	QPSK	137	136	17.96	17.96	17.96	19.0	0.0	
100	QPSK	273	0	17.96	18.08	18.03	19.0	0.0	
100	16QAM	1	1	17.96	18.01	17.62	19.0	0.0	
100	16QAM	1	1	17.96	17.95	17.95	19.0	0.0	
100	256QAM	1	1	17.84	18.00	17.91	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.90	17.99	17.90	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.87	17.95	18.03	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.84	18.03	17.97	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.92	17.99	18.02	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.94	18.06	17.93	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.86	17.99	18.02	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.93	17.96	17.92	19.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.95	18.04	17.97	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.91	18.06	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.94	18.08	17.98	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.93	18.07	18.00	19.0	0.0	

n41_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	20.46	20.53	20.50			
Channel									
Frequency (MHz)									
100	QPSK	1	137	20.38	20.31	20.30	22.0	0.0	
100	QPSK	1	271	20.38	20.48	20.25			
100	QPSK	137	0	20.30	20.20	20.22	22.0	0.0	
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	137	136	20.30	20.31	20.28	22.0	0.0	
100	QPSK	273	0	20.30	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.33	20.45	20.26	22.0	0.0	
100	16QAM	1	1	20.30	20.31	20.38	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.29	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.33	20.32	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.25	20.45	20.35	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.33	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.25	20.45	20.35	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.33	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.27	20.49	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.29	20.44	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.27	20.43	20.43	22.0	0.0	

n41_HPUE_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	23.46	23.59	23.59			
Channel									
Frequency (MHz)									
100	QPSK	1	137	23.39	23.40	23.38	24.5	0.0	
100	QPSK	1	271	23.40	23.53	23.41			
100	QPSK	137	0	23.32	23.38	23.35	24.5	0.0	
100	QPSK	137	68	23.38	23.48	23.32	24.5	0.0	
100	QPSK	137	136	23.32	23.40	23.34	24.5	0.0	
100	QPSK	273	0	23.31	23.43	23.34	24.5	0.0	
100	16QAM	1	1	23.48	23.53	23.39	24.5	0.0	
100	16QAM	1	1	23.35	23.37	23.33	24.5	0.0	
100	256QAM	1	1	23.88	20.59	20.88	23.5	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.39	23.49	23.40	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.35	23.54	23.45	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.30	23.51	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.33	23.53	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.30	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.29	23.52	23.47	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	



n41_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.46	20.53	20.50	
100	QPSK	1	137	20.38	20.37	20.30	22.0
100	QPSK	1	271	20.38	20.48	20.25	
100	QPSK	137	8	20.31	20.28	20.22	
100	QPSK	137	88	20.44	20.48	20.39	22.0
100	QPSK	137	196	20.41	20.48	20.48	
100	QPSK	273	8	20.50	20.43	20.25	22.0
100	16QAM	1	1	20.33	20.40	20.38	22.0
100	16QAM	1	1	20.30	20.34	20.38	22.0
100	256QAM	1	1	20.24	20.38	20.39	22.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.23	20.37	20.46	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.29	20.40	20.39	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.31	20.41	20.42	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.23	20.41	20.43	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.42	20.48	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.35	20.41	20.39	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.23	20.40	20.44	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.29	20.40	20.42	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.29	20.45	20.40	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.23	20.41	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.27	20.43	20.43	22.0

n41_HPUE_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	23.45	23.30	23.35	
100	QPSK	1	137	23.35	23.40	23.28	24.5
100	QPSK	1	271	23.48	23.53	23.41	
100	QPSK	137	8	23.22	23.38	23.32	24.5
100	QPSK	137	88	23.38	23.48	23.32	24.5
100	QPSK	137	196	23.42	23.48	23.34	
100	QPSK	273	8	23.31	23.43	23.34	24.5
100	16QAM	1	1	23.48	23.53	23.39	24.5
100	16QAM	1	1	23.35	23.30	23.23	24.5
100	256QAM	1	1	20.88	20.92	20.85	23.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.35	23.49	23.42	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.38	23.54	23.45	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.37	23.51	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.30	23.51	23.42	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.38	23.53	23.41	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.30	23.52	23.43	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.30	23.51	23.44	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.35	23.43	23.47	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.31	23.54	23.43	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.32	23.53	23.44	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.35	23.43	23.47	24.5





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n41_Ant 1								
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	QPSK	1	1	20.48	20.53	20.55		
100	QPSK	1	137	20.58	20.57	20.50	22.0	0.0
100	QPSK	1	271	20.58	20.49	20.25		
100	QPSK	137	8	20.33	20.28	20.25		
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0
100	QPSK	273	8	20.33	20.43	20.25	22.0	0.0
100	16QAM	1	1	20.55	20.40	20.38	22.0	0.0
100	16QAM	1	1	20.55	20.34	20.38	22.0	0.0
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	137	20.24	20.27	20.48	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.25	20.40	20.39	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.28	20.29	20.39	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.25	20.42	20.45	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.29	20.74	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.28	20.41	20.41	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0

n41_HPUE_Ant 1								
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	QPSK	1	1	23.45	23.59	23.55		
100	QPSK	1	137	23.35	23.40	23.25	24.5	0.0
100	QPSK	1	271	23.48	23.53	23.41		
100	QPSK	137	8	23.22	23.38	23.32	24.5	0.0
100	QPSK	137	68	23.35	23.48	23.32	24.5	0.0
100	QPSK	273	8	23.31	23.43	23.34	24.5	0.0
100	16QAM	1	1	23.48	23.53	23.39	24.5	0.0
100	16QAM	1	1	23.15	23.30	23.25	24.5	0.0
100	256QAM	1	1	20.88	20.92	20.85	23.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	137	23.29	23.49	23.42	24.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.38	23.54	23.48	24.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.29	23.51	23.42	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.38	23.53	23.41	24.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.49	23.74	24.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.20	23.71	23.44	24.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0

n41_Ant 2								
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB)	MPR (dB)
Channel								
Frequency (MHz)								
100	QPSK	1	1	20.48	20.53	20.50		
100	QPSK	1	137	20.58	20.57	20.50	22.0	0.0
100	QPSK	1	271	20.58	20.49	20.25		
100	QPSK	137	8	20.33	20.28	20.25		
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0
100	QPSK	273	8	20.33	20.43	20.25	22.0	0.0
100	16QAM	1	1	20.55	20.40	20.38	22.0	0.0
100	16QAM	1	1	20.55	20.34	20.38	22.0	0.0
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	137	20.24	20.27	20.48	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.25	20.40	20.39	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.28	20.29	20.39	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.25	20.42	20.45	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.11	20.29	20.74	22.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.28	20.41	20.41	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0



n41_HPUE_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	23.45	23.30	23.55			
100	QPSK	1	137	23.35	23.40	23.25			
100	QPSK	1	271	23.46	23.53	23.41			
100	QPSK	137	0	23.32	23.38	23.32	24.5	0.0	
100	QPSK	137	68	23.38	23.48	23.32	24.5	0.0	
100	QPSK	137	136	23.32	23.44	23.34			
100	QPSK	273	0	23.31	23.43	23.34	24.5	0.0	
100	TDMA	1	1	23.48	23.53	23.39	24.5	0.0	
100	4QAM	1	1	23.15	23.30	23.23	24.5	0.0	
100	25QAM	1	1	20.86	20.92	20.85	23.5	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.51	23.59	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.59	23.49	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.36	23.54	23.45	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.30	23.51	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.36	23.54	23.45	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.59	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.30	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.29	23.53	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	18.53	18.62	18.59			
100	QPSK	1	137	18.53	18.52	18.49			
100	QPSK	1	271	18.53	18.50	18.40			
100	QPSK	137	0	18.52	18.41	18.37	20.0	0.0	
100	QPSK	137	68	18.53	18.57	18.48	20.0	0.0	
100	QPSK	137	136	18.48	18.46	18.46			
100	QPSK	273	0	18.33	18.52	18.34	20.0	0.0	
100	TDMA	1	1	18.30	18.46	18.30	20.0	0.0	
100	4QAM	1	1	18.35	18.45	18.42	20.0	0.0	
100	25QAM	1	1	18.30	18.44	18.35	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.33	18.37	18.42	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.29	18.48	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.25	18.47	18.35	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.31	18.41	18.42	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.33	18.41	18.43	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.30	18.42	18.45	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.35	18.41	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.29	18.42	18.41	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.29	18.42	18.41	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.29	18.45	18.40	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.29	18.44	18.41	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.27	18.43	18.43	20.0	0.0	

n41_HPUE_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	21.47	21.43	21.57			
100	QPSK	1	137	21.37	21.42	21.38	22.5	0.0	
100	QPSK	1	271	21.40	21.50	21.43			
100	QPSK	137	0	21.34	21.40	21.34	22.5	0.0	
100	QPSK	137	68	21.37	21.48	21.34	22.5	0.0	
100	QPSK	137	136	21.34	21.42	21.36			
100	QPSK	273	0	21.31	21.45	21.36	22.5	0.0	
100	TDMA	1	1	21.49	21.54	21.40	22.5	0.0	
100	4QAM	1	1	21.35	21.51	21.44	22.5	0.0	
100	25QAM	1	1	20.29	20.37	20.19	21.5	1.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.39	21.49	21.43	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.35	21.54	21.45	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.37	21.53	21.44	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.32	21.50	21.42	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.35	21.53	21.41	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.32	21.52	21.43	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.30	21.51	21.44	22.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.30	21.50	21.40	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.31	21.54	21.43	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.32	21.53	21.46	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.35	21.43	21.47	22.5	0.0	



n41_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.46	20.53	20.50	
100	QPSK	1	137	20.38	20.37	20.30	22.0
100	QPSK	1	271	20.38	20.48	20.25	
100	QPSK	137	8	20.31	20.28	20.22	
100	QPSK	137	88	20.44	20.48	20.39	22.0
100	QPSK	137	196	20.41	20.48	20.48	
100	QPSK	273	8	20.50	20.43	20.25	22.0
100	16QAM	1	1	20.33	20.40	20.38	22.0
100	16QAM	1	1	20.30	20.34	20.38	22.0
100	256QAM	1	1	20.24	20.38	20.39	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.23	20.37	20.46	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.29	20.40	20.39	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.31	20.41	20.42	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.28	20.41	20.42	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.42	20.48	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.35	20.41	20.39	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.22	20.40	20.44	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.28	20.40	20.42	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.29	20.45	20.40	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.28	20.41	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.27	20.43	20.43	22.0

n41_HPUE_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	23.45	23.30	23.35	
100	QPSK	1	137	23.35	23.40	23.28	24.5
100	QPSK	1	271	23.48	23.53	23.41	
100	QPSK	137	8	23.22	23.38	23.32	24.5
100	QPSK	137	88	23.38	23.48	23.32	24.5
100	QPSK	137	196	23.42	23.48	23.34	
100	QPSK	273	8	23.31	23.43	23.34	24.5
100	16QAM	1	1	23.48	23.53	23.39	24.5
100	16QAM	1	1	23.35	23.30	23.23	24.5
100	256QAM	1	1	20.88	20.92	20.85	23.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.35	23.49	23.42	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.38	23.54	23.45	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.37	23.51	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.30	23.51	23.42	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.38	23.53	23.41	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.30	23.52	23.43	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.30	23.51	23.44	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.35	23.43	23.47	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.31	23.54	23.43	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.32	23.53	23.44	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.35	23.43	23.47	24.5



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n41_Ant 1									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med. Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	20.48	20.53	20.55			
100	QPSK	1	137	20.58	20.57	20.50	22.0	0.0	
100	QPSK	1	271	20.58	20.49	20.25			
100	QPSK	137	8	20.33	20.28	20.25			
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	273	8	20.38	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.55	20.40	20.38	22.0	0.0	
100	16QAM	1	1	20.55	20.34	20.38	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.33	20.27	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.25	20.40	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.28	20.29	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.31	20.29	20.74	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.29	20.41	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	

n41_HPUE_Ant 1									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med. Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	23.45	23.59	23.55			
100	QPSK	1	137	23.58	23.40	23.26	24.5	0.0	
100	QPSK	1	271	23.48	23.53	23.41			
100	QPSK	137	8	23.22	23.38	23.32	24.5	0.0	
100	QPSK	137	68	23.35	23.46	23.32	24.5	0.0	
100	QPSK	273	8	23.31	23.43	23.34	24.5	0.0	
100	16QAM	1	1	23.48	23.53	23.39	24.5	0.0	
100	16QAM	1	1	23.15	23.30	23.23	24.5	0.0	
100	256QAM	1	1	20.98	20.99	20.85	23.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.29	23.49	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.35	23.54	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.29	23.51	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.38	23.53	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.49	23.74	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.23	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 2									
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med. Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	20.46	20.53	20.50			
100	QPSK	1	137	20.58	20.57	20.50	22.0	0.0	
100	QPSK	1	271	20.38	20.48	20.25			
100	QPSK	137	8	20.10	20.25	20.22			
100	QPSK	137	68	20.44	20.48	20.38	22.0	0.0	
100	QPSK	273	8	20.38	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.33	20.40	20.38	22.0	0.0	
100	16QAM	1	1	20.35	20.34	20.38	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.33	20.27	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.29	20.40	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.28	20.29	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.31	20.29	20.74	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.29	20.41	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	



n41_HPUE_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
100	QPSK	1	1	23.45	23.30	23.35		0.0
100	QPSK	1	137	23.35	23.40	23.35		0.0
100	QPSK	1	271	23.46	23.53	23.41	24.5	0.0
100	QPSK	137	0	23.32	23.38	23.32	24.5	0.0
100	QPSK	137	66	23.38	23.48	23.32	24.5	0.0
100	QPSK	137	136	23.32	23.34	23.34	24.5	0.0
100	QPSK	273	0	23.31	23.43	23.34	24.5	0.0
100	TDMA	1	1	23.48	23.53	23.39	24.5	0.0
100	4QAM	1	1	23.35	23.35	23.35	24.5	0.0
100	25QAM	1	1	20.86	20.92	20.85	23.5	1.0
	Channel Frequency (MHz)			2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	23.33	23.49	23.43	24.5	0.0
	Channel Frequency (MHz)			507204	518508	529812	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.36	23.54	23.46	24.5	0.0
	Channel Frequency (MHz)			508202	518506	528800	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0
	Channel Frequency (MHz)			52000	518508	530506	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.30	23.51	23.43	24.5	0.0
	Channel Frequency (MHz)			542004	518508	525206	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.38	23.53	23.41	24.5	0.0
	Channel Frequency (MHz)			503202	518506	534000	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0
	Channel Frequency (MHz)			52000	518508	530506	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.32	23.51	23.44	24.5	0.0
	Channel Frequency (MHz)			501700	518508	535500	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	23.35	23.43	23.47	24.5	0.0
	Channel Frequency (MHz)			501204	518506	535998	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0
	Channel Frequency (MHz)			50000	518508	534998	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.29	23.53	23.44	24.5	0.0
	Channel Frequency (MHz)			50002	518508	535000	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0

n41_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
100	QPSK	1	1	18.53	18.62	18.59		0.0
100	QPSK	1	137	18.53	18.52	18.49	20.0	0.0
100	QPSK	1	271	18.53	18.50	18.40		0.0
100	QPSK	137	0	18.52	18.41	18.37		0.0
100	QPSK	137	66	18.53	18.57	18.48	20.0	0.0
100	QPSK	137	136	18.52	18.46	18.46	20.0	0.0
100	QPSK	273	0	18.33	18.52	18.34	20.0	0.0
100	TDMA	1	1	18.39	18.46	18.39	20.0	0.0
100	4QAM	1	1	18.35	18.45	18.42	20.0	0.0
100	25QAM	1	1	18.30	18.44	18.35	20.0	0.0
	Channel Frequency (MHz)			2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	18.33	18.42	18.42	20.0	0.0
	Channel Frequency (MHz)			507204	518508	529812	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.35	18.49	18.45	20.0	0.0
	Channel Frequency (MHz)			508202	518506	528800	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.31	18.41	18.42	20.0	0.0
	Channel Frequency (MHz)			52000	518508	530506	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.33	18.41	18.43	20.0	0.0
	Channel Frequency (MHz)			542004	518508	525206	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.35	18.45	18.45	20.0	0.0
	Channel Frequency (MHz)			503202	518506	534000	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.35	18.41	18.39	20.0	0.0
	Channel Frequency (MHz)			52000	518508	530506	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.29	18.42	18.41	20.0	0.0
	Channel Frequency (MHz)			501700	518508	535500	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	18.29	18.45	18.39	20.0	0.0
	Channel Frequency (MHz)			501204	518506	535998	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.29	18.45	18.40	20.0	0.0
	Channel Frequency (MHz)			50000	518508	534998	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.29	18.44	18.41	20.0	0.0
	Channel Frequency (MHz)			50002	518508	535000	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.27	18.43	18.43	20.0	0.0

n41_HPUE_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
100	QPSK	1	1	21.47	21.43	21.57		0.0
100	QPSK	1	137	21.57	21.42	21.38	22.5	0.0
100	QPSK	1	271	21.40	21.50	21.43		0.0
100	QPSK	137	0	21.54	21.40	21.34	22.5	0.0
100	QPSK	137	66	21.37	21.48	21.34	22.5	0.0
100	QPSK	137	136	21.54	21.42	21.36	22.5	0.0
100	QPSK	273	0	21.35	21.45	21.38	22.5	0.0
100	TDMA	1	1	21.49	21.54	21.40	22.5	0.0
100	4QAM	1	1	21.35	21.41	21.44	22.5	0.0
100	25QAM	1	1	20.29	20.37	20.19	21.5	1.0
	Channel Frequency (MHz)			2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	21.33	21.49	21.43	22.5	0.0
	Channel Frequency (MHz)			507204	518508	529812	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.35	21.54	21.48	22.5	0.0
	Channel Frequency (MHz)			508202	518506	528800	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.37	21.51	21.44	22.5	0.0
	Channel Frequency (MHz)			52000	518508	530506	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.30	21.51	21.43	22.5	0.0
	Channel Frequency (MHz)			542004	518508	525206	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.38	21.53	21.41	22.5	0.0
	Channel Frequency (MHz)			503202	518506	534000	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.32	21.52	21.43	22.5	0.0
	Channel Frequency (MHz)			52000	518508	530506	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.32	21.51	21.44	22.5	0.0
	Channel Frequency (MHz)			501700	518508	535500	Turn-up limit (dBm)	MPR (dB)
25	QPSK	1	1	21.35	21.49	21.47	22.5	0.0
	Channel Frequency (MHz)			501204	518506	535998	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.31	21.54	21.43	22.5	0.0
	Channel Frequency (MHz)			50000	518508	534998	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.32	21.53	21.44	22.5	0.0
	Channel Frequency (MHz)			50002	518508	535000	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.35	21.43	21.47	22.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.46	20.53	20.50	
100	QPSK	1	137	20.38	20.37	20.30	22.0
100	QPSK	1	271	20.38	20.48	20.25	
100	QPSK	137	8	20.31	20.28	20.22	
100	QPSK	137	88	20.44	20.43	20.39	22.0
100	QPSK	137	196	20.41	20.46	20.46	
100	QPSK	273	8	20.50	20.43	20.25	22.0
100	16QAM	1	1	20.33	20.40	20.28	22.0
100	16QAM	1	1	20.30	20.34	20.38	22.0
100	256QAM	1	1	20.24	20.38	20.39	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.23	20.37	20.46	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.29	20.40	20.39	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.31	20.41	20.42	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.28	20.49	20.38	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.42	20.48	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.35	20.41	20.39	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.22	20.40	20.44	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.28	20.40	20.42	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.29	20.45	20.40	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.28	20.41	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.27	20.43	20.43	22.0

n41_HPUE_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	23.45	23.30	23.35	
100	QPSK	1	137	23.35	23.40	23.28	24.5
100	QPSK	1	271	23.46	23.53	23.41	
100	QPSK	137	8	23.22	23.38	23.32	24.5
100	QPSK	137	88	23.35	23.46	23.32	24.5
100	QPSK	137	196	23.42	23.46	23.34	
100	QPSK	273	8	23.31	23.43	23.34	24.5
100	16QAM	1	1	23.48	23.53	23.39	24.5
100	16QAM	1	1	23.35	23.30	23.23	24.5
100	256QAM	1	1	20.86	20.92	20.85	23.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.35	23.49	23.42	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.36	23.54	23.45	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.37	23.51	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.30	23.51	23.42	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.36	23.53	23.41	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.30	23.52	23.43	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.30	23.51	23.44	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.35	23.43	23.47	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.31	23.54	23.43	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.32	23.53	23.44	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.35	23.43	23.47	24.5



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	20.48	20.53	20.55			
100	QPSK	1	137	20.58	20.57	20.59	22.0	0.0	
100	QPSK	1	271	20.58	20.49	20.25			
100	QPSK	137	8	20.53	20.28	20.25			
100	QPSK	137	68	20.44	20.48	20.39	22.0	0.0	
100	QPSK	273	0	20.52	20.41	20.24			
100	QPSK	273	0	20.52	20.43	20.25	22.0	0.0	
100	16QAM	1	1	20.53	20.40	20.36	22.0	0.0	
100	16QAM	1	1	20.53	20.34	20.36	22.0	0.0	
100	256QAM	1	1	20.24	20.38	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	20.33	20.37	20.45	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.25	20.40	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.31	20.41	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.28	20.29	20.29	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.41	20.43	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.35	20.41	20.39	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.31	20.29	20.24	22.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.22	20.40	20.44	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.29	20.45	20.40	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.29	20.41	20.41	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.22	20.48	20.43	22.0	0.0	

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n41_HPUE_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	23.45	23.59	23.55			
100	QPSK	1	137	23.55	23.40	23.26	24.5	0.0	
100	QPSK	1	271	23.46	23.53	23.41			
100	QPSK	137	8	23.22	23.38	23.32	24.5	0.0	
100	QPSK	137	68	23.35	23.46	23.32	24.5	0.0	
100	QPSK	273	0	23.32	23.46	23.34			
100	QPSK	273	0	23.31	23.43	23.34	24.5	0.0	
100	16QAM	1	1	23.46	23.53	23.39	24.5	0.0	
100	16QAM	1	1	23.15	23.30	23.23	24.5	0.0	
100	256QAM	1	1	20.98	20.92	20.85	23.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	23.29	23.49	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.35	23.54	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.37	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.29	23.51	23.42	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.36	23.53	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.32	23.52	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.49	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.23	23.51	23.44	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.31	23.54	23.43	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.53	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.35	23.43	23.47	24.5	0.0	

n41_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Med. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	QPSK	1	1	14.95	15.03	15.01			
100	QPSK	1	137	14.79	14.89	14.96	16.5	0.0	
100	QPSK	1	271	14.87	14.91	14.96			
100	QPSK	137	8	14.87	15.02	14.93			
100	QPSK	137	68	14.83	15.00	14.87	16.5	0.0	
100	QPSK	273	0	14.78	14.95	14.81			
100	QPSK	273	0	14.90	14.98	14.95	16.5	0.0	
100	16QAM	1	1	14.78	14.89	14.81	16.5	0.0	
100	16QAM	1	1	14.82	14.94	14.90	16.5	0.0	
100	256QAM	1	1	14.88	14.93	14.85	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	137	14.80	14.97	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.88	14.90	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.87	14.96	14.88	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.79	14.97	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.79	14.97	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.84	14.91	14.95	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.79	14.97	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.84	14.92	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.89	14.97	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.81	14.98	14.96	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82	14.99	14.93	16.5	0.0	



n41_HPUE_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	18.02	18.12	18.08			
100	QPSK	1	137	17.93	17.96	17.96	19.0	0.0	
100	QPSK	1	271	17.96	18.07	17.93			
100	QPSK	137	0	17.95	18.04	17.95	19.0	0.0	
100	QPSK	137	68	18.02	18.10	18.02	19.0	0.0	
100	QPSK	137	136	17.95	17.96	17.95	19.0	0.0	
100	QPSK	273	0	17.95	18.08	18.03	19.0	0.0	
100	16QAM	1	1	17.95	18.01	17.92	19.0	0.0	
100	16QAM	1	1	17.95	17.95	17.95	19.0	0.0	
100	256QAM	1	1	17.84	18.00	17.91	19.0	0.0	
100	Channel			2541	2552	2544	(dBm)	(dB)	
80	QPSK	1	1	17.92	17.92	17.92	19.0	0.0	
80	QPSK	1	137	17.92	17.92	17.92	19.0	0.0	
80	QPSK	1	271	17.92	17.92	17.92	19.0	0.0	
80	QPSK	137	0	17.92	17.92	17.92	19.0	0.0	
80	QPSK	137	68	17.92	17.92	17.92	19.0	0.0	
80	QPSK	137	136	17.92	17.92	17.92	19.0	0.0	
80	QPSK	273	0	17.92	17.92	17.92	19.0	0.0	
80	16QAM	1	1	17.92	17.92	17.92	19.0	0.0	
80	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
80	Channel			2526	2529	2526	(dBm)	(dB)	
80	QPSK	1	1	17.92	17.92	17.92	19.0	0.0	
80	QPSK	1	137	17.92	17.92	17.92	19.0	0.0	
80	QPSK	1	271	17.92	17.92	17.92	19.0	0.0	
80	QPSK	137	0	17.92	17.92	17.92	19.0	0.0	
80	QPSK	137	68	17.92	17.92	17.92	19.0	0.0	
80	QPSK	137	136	17.92	17.92	17.92	19.0	0.0	
80	QPSK	273	0	17.92	17.92	17.92	19.0	0.0	
80	16QAM	1	1	17.92	17.92	17.92	19.0	0.0	
80	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
80	Channel			2511	2522	2514	(dBm)	(dB)	
50	QPSK	1	1	17.94	18.00	17.93	19.0	0.0	
50	QPSK	1	137	17.94	17.95	17.94	19.0	0.0	
50	QPSK	1	271	17.94	18.00	17.93	19.0	0.0	
50	QPSK	137	0	17.94	18.00	17.93	19.0	0.0	
50	QPSK	137	68	17.94	18.00	17.93	19.0	0.0	
50	QPSK	137	136	17.94	17.95	17.94	19.0	0.0	
50	QPSK	273	0	17.94	18.00	17.93	19.0	0.0	
50	16QAM	1	1	17.94	18.00	17.93	19.0	0.0	
50	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
50	Channel			2506	2509	2506	(dBm)	(dB)	
30	QPSK	1	1	17.92	18.00	17.92	19.0	0.0	
30	QPSK	1	137	17.92	17.92	17.92	19.0	0.0	
30	QPSK	1	271	17.92	18.00	17.92	19.0	0.0	
30	QPSK	137	0	17.92	18.00	17.92	19.0	0.0	
30	QPSK	137	68	17.92	17.92	17.92	19.0	0.0	
30	QPSK	137	136	17.92	17.92	17.92	19.0	0.0	
30	QPSK	273	0	17.92	18.00	17.92	19.0	0.0	
30	16QAM	1	1	17.92	17.92	17.92	19.0	0.0	
30	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
30	Channel			2511	2522	2514	(dBm)	(dB)	
25	QPSK	1	1	17.92	18.00	17.92	19.0	0.0	
25	QPSK	1	137	17.92	17.92	17.92	19.0	0.0	
25	QPSK	1	271	17.92	18.00	17.92	19.0	0.0	
25	QPSK	137	0	17.92	18.00	17.92	19.0	0.0	
25	QPSK	137	68	17.92	17.92	17.92	19.0	0.0	
25	QPSK	137	136	17.92	17.92	17.92	19.0	0.0	
25	QPSK	273	0	17.92	18.00	17.92	19.0	0.0	
25	16QAM	1	1	17.92	17.92	17.92	19.0	0.0	
25	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
25	Channel			2506	2509	2506	(dBm)	(dB)	
20	QPSK	1	1	17.95	18.00	17.95	19.0	0.0	
20	QPSK	1	137	17.95	17.95	17.95	19.0	0.0	
20	QPSK	1	271	17.95	18.00	17.95	19.0	0.0	
20	QPSK	137	0	17.95	18.00	17.95	19.0	0.0	
20	QPSK	137	68	17.95	17.95	17.95	19.0	0.0	
20	QPSK	137	136	17.95	17.95	17.95	19.0	0.0	
20	QPSK	273	0	17.95	18.00	17.95	19.0	0.0	
20	16QAM	1	1	17.95	17.95	17.95	19.0	0.0	
20	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
20	Channel			2501	2504	2501	(dBm)	(dB)	
15	QPSK	1	1	17.95	18.00	17.95	19.0	0.0	
15	QPSK	1	137	17.95	17.95	17.95	19.0	0.0	
15	QPSK	1	271	17.95	18.00	17.95	19.0	0.0	
15	QPSK	137	0	17.95	18.00	17.95	19.0	0.0	
15	QPSK	137	68	17.95	17.95	17.95	19.0	0.0	
15	QPSK	137	136	17.95	17.95	17.95	19.0	0.0	
15	QPSK	273	0	17.95	18.00	17.95	19.0	0.0	
15	16QAM	1	1	17.95	17.95	17.95	19.0	0.0	
15	256QAM	1	1	17.84	18.03	17.97	19.0	0.0	
15	Channel			2501	2504	2501	(dBm)	(dB)	
10	QPSK	1	1	17.95	18.00	17.95	19.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
100	QPSK	1	1	15.48	15.56	15.53			
100	QPSK	1	137	15.37	15.45	15.38	17.0	0.0	
100	QPSK	1	271	15.35	15.44	15.40			
100	QPSK	137	0	15.37	15.45	15.37	17.0	0.0	
100	QPSK	137	68	15.43	15.53	15.50	17.0	0.0	
100	QPSK	137	136	15.37	15.37	15.37	17.0	0.0	
100	QPSK	273	0	15.41	15.50	15.48	17.0	0.0	
100	16QAM	1	1	15.37	15.44	15.44	17.0	0.0	
100	16QAM	1	1	15.35	15.45	15.41	17.0	0.0	
100	256QAM	1	1	15.38	15.47	15.35	17.0	0.0	
100	Channel			25020	25028	25026	(dBm)	(dB)	
80	QPSK	1	1	15.32	15.42	15.43	17.0	0.0	
80	QPSK	1	137	15.22	15.32	15.28	17.0	0.0	
80	QPSK	1	271	15.20	15.30	15.25	17.0	0.0	
80	QPSK	137	0	15.22	15.32	15.22	17.0	0.0	
80	QPSK	137	68	15.28	15.38	15.35	17.0	0.0	
80	QPSK	137	136	15.22	15.22	15.22	17.0	0.0	
80	QPSK	273	0	15.26	15.36	15.32	17.0	0.0	
80	16QAM	1	1	15.22	15.30	15.30	17.0	0.0	
80	256QAM	1	1	15.23	15.40	15.42	17.0	0.0	
80	Channel			25010	25018	25016	(dBm)	(dB)	
60	QPSK	1	1	15.32	15.42	15.42	17.0	0.0	
60	QPSK	1	137	15.22	15.32	15.28	17.0	0.0	
60	QPSK	1	271	15.20	15.30	15.25	17.0	0.0	
60	QPSK	137	0	15.22	15.32	15.22	17.0	0.0	
60	QPSK	137	68	15.28	15.38	15.35	17.0	0.0	
60	QPSK	137	136	15.22	15.22	15.22	17.0	0.0	
60	QPSK	273	0	15.26	15.36	15.32	17.0	0.0	
60	16QAM	1	1	15.22	15.30	15.30	17.0	0.0	
60	256QAM	1	1	15.23	15.40	15.42	17.0	0.0	
60	Channel			25000	25008	24998	(dBm)	(dB)	
50	QPSK	1	1	15.42	15.48	15.45	17.0	0.0	
50	QPSK	1	137	15.32	15.42	15.40	17.0	0.0	
50	QPSK	1	271	15.30	15.40	15.35	17.0	0.0	
50	QPSK	137	0	15.32	15.42	15.32	17.0	0.0	
50	QPSK	137	68	15.38	15.48	15.45	17.0	0.0	
50	QPSK	137	136	15.32	15.32	15.32	17.0	0.0	
50	QPSK	273	0	15.36	15.46	15.42	17.0	0.0	
50	16QAM	1	1	15.32	15.40	15.40	17.0	0.0	
50	256QAM	1	1	15.33	15.48	15.48	17.0	0.0	
50	Channel			24990	24998	24990	(dBm)	(dB)	
40	QPSK	1	1	15.38	15.45	15.42	17.0	0.0	
40	QPSK	1	137	15.28	15.38	15.35	17.0	0.0	
40	QPSK	1	271	15.26	15.36				





n41_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.46	20.53	20.50	
100	QPSK	1	137	20.38	20.37	20.30	22.0
100	QPSK	1	271	20.38	20.48	20.25	
100	QPSK	137	8	20.31	20.28	20.22	
100	QPSK	137	88	20.44	20.48	20.39	22.0
100	QPSK	137	196	20.41	20.48	20.48	
100	QPSK	273	8	20.50	20.43	20.25	22.0
100	16QAM	1	1	20.33	20.40	20.38	22.0
100	16QAM	1	1	20.30	20.34	20.38	22.0
100	256QAM	1	1	20.24	20.38	20.39	22.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.23	20.37	20.46	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.29	20.40	20.39	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.31	20.41	20.42	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.23	20.41	20.43	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.42	20.48	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.35	20.41	20.39	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.23	20.40	20.44	22.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.29	20.40	20.42	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.29	20.45	20.40	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.23	20.41	20.41	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.27	20.43	20.43	22.0

n41_HPUE_Ant 9							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	QPSK	1	1	23.45	23.30	23.35	
100	QPSK	1	137	23.35	23.40	23.28	24.5
100	QPSK	1	271	23.48	23.53	23.41	
100	QPSK	137	8	23.22	23.38	23.32	24.5
100	QPSK	137	88	23.38	23.48	23.32	24.5
100	QPSK	137	196	23.42	23.48	23.34	
100	QPSK	273	8	23.31	23.43	23.34	24.5
100	16QAM	1	1	23.48	23.53	23.39	24.5
100	16QAM	1	1	23.35	23.30	23.23	24.5
100	256QAM	1	1	20.88	20.92	20.85	23.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.35	23.49	23.42	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.38	23.54	23.45	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.37	23.51	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.30	23.51	23.42	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.38	23.53	23.41	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.30	23.52	23.43	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.30	23.51	23.44	24.5
Channel							
Frequency (MHz)							
25	QPSK	1	1	23.35	23.43	23.47	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.31	23.54	23.43	24.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.32	23.53	23.44	24.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.35	23.43	23.47	24.5









**BT BR/EDR Ant 4**

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	16.20	18.00	13.60	15.00	13.60	15.00
	CH 39	2441	16.50	18.00	14.10	15.50	14.10	15.50
	CH 78	2480	15.40	17.00	12.90	14.50	12.90	14.50

**BLE Ant 4**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Average power (dBm)	
			1Mbps	2Mbps	125kbps	500kbps
BLE	CH 00	2402	4.80	4.90	4.90	4.80
	CH 19	2440	5.40	5.50	5.60	5.40
	CH 39	2480	4.10	4.30	4.20	4.10
Tune-up Limit			7	7	7	7

**BT BR/EDR Ant 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	15.20	16.50	12.30	14.00	12.30	14.00
	CH 39	2441	15.40	17.00	12.70	14.50	12.70	14.50
	CH 78	2480	14.40	16.00	11.60	13.50	11.60	13.00

**BLE Ant 6**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Average power (dBm)	
			1Mbps	2Mbps	125kbps	500kbps
BLE	CH 00	2402	3.80	3.70	3.60	3.40
	CH 19	2440	4.00	4.20	4.10	4.00
	CH 39	2480	2.90	3.10	3.00	2.80
Tune-up Limit			5.5	5.5	5.5	5.5

**BT BR/EDR Ant 5**

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			1Mbps	Tune-up	2Mbps	Tune-up	3Mbps	Tune-up
BR / EDR	CH 00	2402	16.80	18.50	14.10	15.50	14.10	15.50
	CH 39	2441	17.10	18.50	14.50	16.00	14.30	16.00
	CH 78	2480	16.10	17.50	13.40	15.00	13.30	15.00

**BLE Ant 5**

Mode	Channel	Frequency (MHz)	Average power (dBm)		Average power (dBm)	
			1Mbps	2Mbps	125kbps	500kbps
BLE	CH 00	2402	6.30	6.40	6.40	6.20
	CH 19	2440	6.60	6.70	6.70	6.50
	CH 39	2480	5.80	6.00	5.90	5.70
Tune-up Limit			8	8	8	8



**BT BR/EDR 1Mbps** Ant 5+4

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			Ant 5	Tune-up	Ant 4	Tune-up	Ant 5+4	Tune-up
BR / EDR	CH 00	2402	14.90	16.50	13.40	15.00	17.22	18.50
	CH 39	2441	15.10	16.50	14.80	16.00	17.96	19.00
	CH 78	2480	14.20	16.00	13.50	15.00	16.87	18.50

**BT BR/EDR 1Mbps** Ant 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			Ant 5	Tune-up	Ant 6	Tune-up	Ant 5+6	Tune-up
BR / EDR	CH 00	2402	14.90	16.50	12.80	14.50	16.91	18.50
	CH 39	2441	15.20	17.00	13.20	15.00	17.32	19.00
	CH 78	2480	14.30	16.00	11.80	13.50	16.24	18.00

**BT BR/EDR 2Mbps** Ant 5+4

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			Ant 5	Tune-up	Ant 4	Tune-up	Ant 5+4	Tune-up
BR / EDR	CH 00	2402	12.30	14.00	11.50	13.00	14.93	16.50
	CH 39	2441	12.60	14.00	12.50	14.00	15.56	17.00
	CH 78	2480	11.70	13.50	11.00	12.50	14.37	16.00

**BT BR/EDR 2Mbps** Ant 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			Ant 5	Tune-up	Ant 6	Tune-up	Ant 5+6	Tune-up
BR / EDR	CH 00	2402	12.50	14.00	10.40	12.00	14.59	16.00
	CH 39	2441	12.90	14.50	10.80	12.50	14.99	16.50
	CH 78	2480	11.90	13.50	9.40	11.00	13.84	15.50

**BT BR/EDR 3Mbps** Ant 5+4

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			Ant 5	Tune-up	Ant 4	Tune-up	Ant 5+4	Tune-up
BR / EDR	CH 00	2402	12.20	14.00	11.50	13.00	14.87	16.50
	CH 39	2441	12.50	14.00	12.50	14.00	15.51	17.00
	CH 78	2480	11.30	13.00	11.00	12.50	14.16	15.50

**BT BR/EDR 3Mbps** Ant 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)					
			Packet Type					
			Ant 5	Tune-up	Ant 6	Tune-up	Ant 5+6	Tune-up
BR / EDR	CH 00	2402	12.50	14.00	10.40	12.00	14.59	16.00
	CH 39	2441	12.80	14.50	10.80	12.50	14.92	16.50
	CH 78	2480	11.80	13.50	9.40	11.00	13.77	15.50